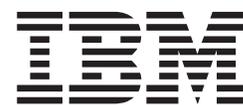


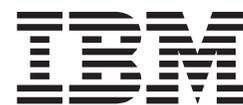
Parallel System Support
Programs for AIX



Messages Reference

Version 3 Release 4

Parallel System Support
Programs for AIX



Messages Reference

Version 3 Release 4

Note!

Before using this information and the product it supports, read the information in "Notices" on page 505.

Fourth Edition (December 2001)

This edition applies to version 3, release 4 of the IBM Parallel System Support Programs for AIX (PSSP) licensed program (product number 5765-D51) and to all subsequent releases and modifications until otherwise indicated in new editions. This edition replaces GA22-7352-02. Significant changes or additions to the text and illustrations are indicated by a vertical line (|) to the left of the change.

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About this book

This book describes error messages, their meaning, and appropriate actions to take to recover from problems. (Note that the scope of this book is limited to the PSSP software. For messages received from other IBM products, refer to the appropriate documentation listed in the Bibliography.)

For a list of related books and information about accessing online information, see the Bibliography in the back of the book.

This book applies to PSSP Version 3 Release 4. To find out what version of PSSP is running on your control workstation (node 0), enter the following from your control workstation:

```
sp1st_versions -t -n0
```

In response, the system displays something similar to:

```
0 PSSP-3.4
```

If the response indicates **PSSP-3.4**, this book applies to the version of PSSP that is running on your system.

To find out what version of PSSP is running on the nodes of your system, enter the following from your control workstation:

```
sp1st_versions -t -G
```

In response, the system displays something similar to:

```
1 PSSP-3.4  
2 PSSP-3.2  
7 PSSP-3.1.1  
8 PSSP-2.4
```

If the response indicates **PSSP-3.4**, this book applies to the version of PSSP that is running on those nodes.

If you are running mixed levels of PSSP, be sure to maintain and refer to the appropriate documentation for whatever versions of PSSP you are running.

Who should use this book

This book is intended for system administrators responsible for setting up and maintaining PSSP. It assumes that readers have a working knowledge of AIX or UNIX and experience with network systems.

This book can also be used by system operators or others who need to monitor the status of the hardware and software or interact with the power and reset controls.

Typographic conventions

This book uses the following typographic conventions:

Typographic	Usage
Bold	<ul style="list-style-type: none"> • Bold words or characters represent system elements that you must use literally, such as commands, flags, and path names.
<i>Italic</i>	<ul style="list-style-type: none"> • <i>Italic</i> words or characters represent variable values that you must supply. • <i>Italics</i> are also used for book titles and for general emphasis in text.
Constant width	Examples and information that the system displays appear in constant width typeface.
[]	Brackets enclose optional items in format and syntax descriptions.
{ }	Braces enclose a list from which you must choose an item in format and syntax descriptions.
	A vertical bar separates items in a list of choices. (In other words, it means “or.”)
< >	Angle brackets (less-than and greater-than) enclose the name of a key on the keyboard. For example, <Enter> refers to the key on your terminal or workstation that is labeled with the word Enter.
...	An ellipsis indicates that you can repeat the preceding item one or more times.
<Ctrl-x>	The notation <Ctrl-x> indicates a control character sequence. For example, <Ctrl-c> means that you hold down the control key while pressing <c> .
\	The continuation character is used in coding examples in this book for formatting purposes.

Chapter 1. PSSP messages - general information

This book contains the following message identifiers for PSSP messages. It is organized in numerical order by message identifier.

0016-<i>nnn</i>	PSSP installation messages
0018-<i>nnn</i>	supper messages
0019-<i>nnn</i>	login control messages
0020-<i>nnn</i>	accounting messages
0021-<i>nnn</i>	IBM Virtual Shared Disk common messages
0022-<i>nnn</i>	CMI messages
0025-<i>nnn</i>	System Data Repository messages
0026-<i>nnn</i>	system monitor messages
0027-<i>nnn</i>	user administration messages
0028-<i>nnn</i>	Switch support messages
0034-<i>nnn</i>	IBM Virtual Shared Disk common messages
0035-<i>nnn</i>	cstartup messages
0036-<i>nnn</i>	cshutdown messages
0037-<i>nnn</i>	SYSMAN_test messages
0038-<i>nnn</i>	Amd messages
0041-<i>nnn</i>	remote command messages
2500-<i>nnn</i>	Hashed Shared Disk (HSD) messages
2501-<i>nnn</i>	sysctl messages
2502-<i>nnn</i>	authentication messages
2503-<i>nnn</i>	Kerberos messages
2504-<i>nnn</i>	Kerberos messages
2505-<i>nnn</i>	host responds messages
2506-<i>nnn</i>	IBM Recoverable Virtual Shared Disk messages
2508-<i>nnn</i>	log management messages
2509-<i>nnn</i>	HACWS messages
2510-<i>nnn</i>	switch fault service daemon messages
2511-<i>nnn</i>	switch table support messages
2515-<i>nnn</i>	problem management messages
2520-<i>nnn</i>	Group Services messages
2521-<i>nnn</i>	Event Management messages
2522-<i>nnn</i>	Resource Monitor messages
2523-<i>nnn</i>	Topology Services messages
2525-<i>nnn</i>	RS/6000 Cluster Technology common messages
2530-<i>nnn</i>	node grouping command line messages
2531-<i>nnn</i>	system partitioning aid messages
2532-<i>nnn</i>	problem management messages
2536-<i>nnn</i>	SNMP Manager for Dependent Nodes messages
2543-<i>nnn</i>	switch admin daemon messages
2545-<i>nnn</i>	authentication installation and configuration messages
2548-<i>nnn</i>	SP Switch advanced diagnostic messages
2549-<i>nnn</i>	SP Switch advanced diagnostic messages
2551-<i>nnn</i>	CE diagnostic messages
2552-<i>nnn</i>	PSSP installation messages (continued)
5025-<i>nnn</i>	dsh and parallel commands messages

Note that not all PSSP messages are included in this book.

- **Informational** messages that provide status or usage information are not included here.
- **Error** messages indicate that a possible problem or error has occurred. They require further explanation to help you understand the cause and recover from

| the situation. Many error messages are preceded by the name of the program
| that issued the message. Error messages are included, beginning on page 3.

Chapter 2. 0016 - PSSP installation messages

For additional PSSP installation messages, see messages beginning with the prefix 2552.

To distinguish between system interrupt error handling and PSSP error handling, the word **(unshifted)** is appended to the return code when a system interrupt has been encountered. It is of the form: **rc=nnn(unshifted)**. For example:

```
setup_server: 0016-279 Failure of internally called command:
               /usr/lpp/ssp/bin/mknimclient; rc=1(unshifted).
```

In this example, the **mknimclient** command was prematurely interrupted via a **SIGHUP** signal and control was passed to **setup_server**. Because **(unshifted)** appears, a system interrupt has been encountered. If **(unshifted)** does not appear with a return code, it indicates that a PSSP error has been encountered. In this case, the rc in the message will have already been shifted to the right by 8 bit positions.

0016-003 Could not create directory *netinst_home_directory*. Exiting...

Explanation: The **netinst** home directory could not be created.

User Response: Make sure that the file system in which the home directory resides is writable and that the home directory is not currently a link to another location or file.

0016-007 Problem found while trying to create logical volume *volume_name*.

Explanation: The **mklv** command could not create the **install_images** logical volume.

User Response: Verify that the **install_images** volume does not already exist. Make sure that there are partitions available to create this logical volume in the root volume group (**rootvg**).

0016-008 Problem found while trying to create file system *pathname*.

Explanation: The **crfs** command could not create the **/usr/sys/inst.images/ssp** file system.

User Response: Check that **/usr/sys/inst.images/ssp** file system does not already exist. Make sure that the **install_images** logical volume has been created.

0016-009 Problem found while trying to mount file system *pathname*.

Explanation: The **/usr/sys/inst.images/ssp** directory could not be mounted.

User Response: Verify that there is an entry for the **/usr/sys/inst.images/ssp** file system in

/etc/filesystems and that it has been created.

0016-011 Problem found while trying to extend the file system *file_system_name* by *number extra blocks needed*.

Explanation: The **chfs** command could not extend the size of the file system.

User Response: Verify that there is enough space on the logical volume **install_images** to increase the size of the file system.

0016-013 Problem found while assigning value to SDR SP *cw_ipaddrs* attribute. SDR Return Code: *return code*.

Explanation: The SDR **SP cw_ipaddrs** attribute could not be assigned a value in the SDR.

User Response: Use the SDR return code to determine where the problem occurred. Use the **splstdata** command to verify the SP object information stored in the SDR.

0016-014 Problem found while querying SDR for reliable host names. SDR Return Code *return code*.

Explanation: The SDR did not, or could not, retrieve values for the Node object **reliable_host_names** attribute.

User Response: Use the SDR return code to determine where the problem occurred. Use the **splstdata** command to verify the SP object information stored in the SDR.

0016-015 **Problem found while trying to export file system on install server. Return code from *command* command: *return code*.**

Explanation: This file system could not be added to the exports list for this system or an existing export could not be modified.

User Response: Use the **export** command return code to locate the problem. Verify current exports.

0016-016 **Unable to export file system on install server. One or more of its subdirectories are already exported. Exiting...**

Explanation: This file system could not be added to the exports list because one of its subdirectories is already exported.

User Response: Unexport the subdirectory and enter the command again.

0016-019 **Problem... Node number was not previously set in the ODM. Exiting...**

Explanation: The ODM does not contain an entry for the SP **node_number** for this node.

User Response: If this is a control workstation, verify that **install_cw** has been run. If this is a system node, verify that **config_node** has been run.

0016-022 **Problem found while trying to setup services with *services_config*. Exiting...**

Explanation: The **services_config** script found problems when trying to call configuration scripts to set up the automounter, NTP, print, and admin services and/or login control.

User Response: Verify the services that should be configured by **services_config**. Check **services_config** problem messages to determine which services could not be configured. Use the **splstdata** command to verify that the information entered into the SDR is correct for this system.

0016-025 **The *config_info* file for node *number* does not exist. Exiting...**

Explanation: This node's **config_info** file is not in the **/tftpboot** directory.

User Response: Use the **splstdata** command to verify the **boot_server** entry for this node in the SDR and rerun **setup_server**. Look for the message indicating that this node's **config_info** and **install_info** files are being created.

0016-034 **Could not find a control workstation interface to be used in transferring install images to this install server node *number*. Exiting...**

Explanation: This install server will need to contact the control workstation in order to transfer the needed image(s). It must contact the control workstation over a common network interface. This message indicates that no common network interface was found for the control workstation and this install server node.

User Response: Use the **splstdata** command to verify the address information that is stored in the SDR. Also, make sure that the control workstation and install server are connected over the same subnet.

0016-036 ***Install image directory already exists. Cannot create a file system of this name. Please move the contents and remove the existing image name. Then rerun setup_server.***

Explanation: The directory **/usr/sys/inst.images/ssp** already exists, but is not a file system in the **install_images** logical volume.

User Response: Move the contents of **/usr/sys/inst.images/ssp** to another place (if they need to be saved), and remove the directory. Then rerun **setup_server**. **/usr/sys/inst.images/ssp** must be in the **install_images** logical volume.

0016-037 **This is not a control workstation. Exiting ...**

Explanation: You can run **install_cw** only on the control workstation.

User Response: If this is a control workstation, verify that the entry in the ODM SP **node_number** attribute is set to 0.

0016-038 **Problem adding control workstation node number to ODM. Exiting...**

Explanation: A problem was found while issuing the **odmadd** command to add the node number attribute in the ODM SP object.

User Response: Verify that the SP node number attribute has not already been set. Verify that there are no ODM configuration problems on this system.

0016-039 **Problem found while setting SP environment variables. Exiting...**

Explanation: The **init_ssp_envs** function could not set SP environment variables from the values stored in the SDR.

User Response: Verify that SP information is complete in the SDR and that the SDR is functioning

properly. Use the **splstdata** command to verify the information in the SDR. Also verify that the node number for this node is set in the ODM SP object.

0016-040 Error found while trying to mount ssp images dir from *control workstation name*. Exiting...

Explanation: This node cannot mount **/usr/sys/inst.images/ssp** from the control workstation in order to install an ssp option.

User Response: Verify that the control workstation is available and that the **/usr/sys/inst.images/ssp** file system is exported on the control workstation, allowing this host to access it.

0016-041 Problem found while installing ssp.sysman. Exiting...

Explanation: The **installp** command had a problem on this system when installing **ssp.sysman**.

User Response: If this is not a control workstation, verify that **/mnt/ssp.installp** exists and that the mount to the control workstation **/usr/sys/inst.images/ssp** directory occurred. If this is a control workstation, verify that the file **/usr/sys/inst.images/ssp/ssp.installp** exists. Also check problem messages from **installp**.

0016-042 Problem found while executing the *program name* configuration script.

Explanation: Problems were found during the configuration of this service.

User Response: Consult the problem message list for this service to determine the cause of the error.

0016-043 Node number has not been set for this node. Exiting ...

Explanation: The **node_number** script did not return this node's node number.

User Response: Check the ODM SP object to see if the **node_number** has been set. If this is a control workstation and the node number attribute has not been set, make sure that the **install_cw** script has been run. If this is a node and the **node_number** attribute has not been set, make sure that the **config_node** script has been run. These scripts should have been run automatically during the installation process. Verify that there were no problems during installation.

0016-044 Problem found while querying the SDR for SP attributes. Exiting...

Explanation: A problem occurred while getting the SP attribute names from the SDR.

User Response: Use the **splstdata** command to

verify that the SDR is available and that the SP object is configured.

0016-045 Problem found while querying the SDR for SP attribute values. Exiting...

Explanation: A problem occurred while getting the SP attribute values from the SDR.

User Response: Use the **splstdata** command to verify that the SDR is available and that the SP object is configured.

0016-046 Problem found while installing ssp.css. Exiting...

Explanation: The **installp** command had a problem on this system when installing **ssp.css**.

User Response: If this is not a control workstation, verify that **/mnt/ssp.installp** exists and that the mount to the control workstation **/usr/sys/inst.images/ssp** directory occurred. If this is a control workstation, verify that the file **/usr/sys/inst.images/ssp/ssp.installp** exists. Also check problem commands from **installp**.

0016-047 Error found while trying to unmount ssp images dir located on *control workstation name*.

Explanation: This node cannot unmount **/usr/sys/inst.images/ssp/** from the control workstation after installing an ssp option.

User Response: Use the **mount** command to see if the directory is actually mounted. If so, try to unmount the directory manually at the command line.

0016-048 Cannot install ssp services software because /usr has read-only permissions.

Explanation: The **services_config** script cannot install either **ssp.sysman** or **ssp.css** because the **/usr** file system is not writable. This is most likely to happen when the node is a **/usr** client.

User Response: Be sure to run **services_config** first on this node's **/usr** server to ensure that the proper software has been installed for all of its clients.

0016-049 Problem found while installing ssp.st.

Explanation: The **installp** command had a problem on this system when installing **ssp.st**.

User Response: Make sure that the prerequisite file sets, **ssp.basic**, and **ssp.css**, have been installed on this node.

0016-050 Problem found while executing `cfgmgr` after `ssp.css` installation

Explanation: The AIX command `cfgmgr` had a problem after installation of `ssp.css`.

User Response: If this is a reinstall, reboot the node before reinstalling to perform the necessary cleanup. Reboot the node and reinstall the `ssp.css` option.

0016-051 Problem found while executing `rc.switch` after `ssp.css` installation

Explanation: The `rc.switch` command had a problem after installation of `ssp.css`.

User Response: If this is a reinstall, reboot the node before reinstalling to do the necessary cleanup. Reboot the node and reinstall the `ssp.css` option.

0016-052 The `add_principal` command could not add service principals to the Kerberos V4 database.

Explanation: The Kerberos V4 `add_principal` command could not add one or more `rcmd` service instances to the Kerberos V4 database. The most likely reason would be problem to `k4init` as `root.admin` prior to using `setup_server`, `setup_CWS`, `spbootins`, or `spsitenv`. Further information can be obtained from `add_principal` problem messages on `stderr` and `kadmind` problem messages in `/var/adm/SPIlogs/kerberos/admin_server.syslog`.

User Response: Make sure you have logged into Kerberos as `root.admin`, using the `kinit` command, before you perform this task.

0016-053 Could not create file `/tmp/node_name-new-srvtab`.

Explanation: The `ext_srvtab` command could not create a `node_name-new-srvtab` file. The error may be the result of a full file system. Otherwise, since the `rcmd.node_name` principal was just added to the database, this is probably a programming problem in the PSSP authentication support.

Note: `node_name` is lowercase translation of actual node host name.

User Response: Check for a full file system, and take appropriate action if necessary. Otherwise, use the `kdb_util` dump command to dump the Kerberos V4 database, and contact the IBM Support Center.

0016-054 Could not copy file `/spdata/sys1/k4srvtabs/node_name-new-srvtab` to the `/tftpboot` directory.

Explanation: The server key file `node_name-new-srvtab` for a node was not found in the

`/spdata/sys1/k4srvtabs` directory on the control workstation. It is required. This is probably a programming problem in the PSSP authentication support.

Note: `node_name` is lowercase translation of actual node host name.

User Response: Follow the procedures described in the chapter on diagnosing authentication problems in *PSSP: Diagnosis Guide* for recreating the missing server key file. If this is unsuccessful, gather information about the problem, and contact the IBM Support Center.

0016-055 Kerberos V4 file `file name` is missing.

Explanation: A configuration file or the server key file required by Kerberos V4 is missing. You had a problem setting up Kerberos V4 before performing the problem task.

User Response: Before running `install_cw` on the control workstation, you must configure Kerberos V4. To configure the Kerberos V4 authentication services on the control workstation, use the `setup_authent` script. If you are using an existing Kerberos V4 server on another workstation, you must obtain the configuration files from that system.

0016-056 You must log in to Kerberos V4 as an admin principal to complete this task, because principals must be added to the authentication database. The list of missing principals has been saved in file `file name`.

Explanation: You invoked `setup_server` on the control workstation for the first time or after adding or renaming one or more nodes on the system. In order to create Kerberos V4 principals for the `rcmd` service on those nodes, you must be logged into Kerberos V4 as a database administrator. You have not logged in, and `setup_server` cannot proceed.

User Response: Enter the command `k4init root.admin` or `k4init user.admin`, where `user` is a Kerberos V4 principal name defined with an admin instance. You must supply the password when prompted. `user.admin` must also be allowed to add principals to the database, which means that it must be in the server system's `/var/kerberos/database/admin_acl.add` file. If you are using the `ssp.authent` server, use `root.admin`. If security policy prevents you from logging in as a Kerberos V4 administrator, give the list of principals to an administrator for adding off-line, then re-initiate the problem task.

0016-057 **The `create_srvtab` command could not create server key files for the new Kerberos V4 principals.**

Explanation: The `setup_server` script is adding principals to an AFS or a non-local Kerberos V4 database for new nodes that are being configured in the system. During that process, `setup_server` creates the server key files for each of the nodes in `/tftpboot/node_name-new-srvtab`. The creation of at least one of the server key files had a problem.

Note: `node_name` is lowercase translation of actual node host name.

User Response: Check the directory `/tftpboot` for the existence of files with names of the form `node_name-new-srvtab`. One file should exist for every node that is configured in the system. Check the file system, ensure that space exists in the file system, and run the `setup_server` script again.

0016-058 **You must run `setup_server` from the command line when using a Kerberos V4 database not on the control workstation.**

Explanation: The `setup_server` script is trying to add principals to the Kerberos V4 database for new nodes that are being configured in the system and the Kerberos V4 database is either maintained within an AFS database or the database is on a system other than the control workstation. In either of these cases, the user must be prompted for an administrative password. When running under SMIT, this prompt would cause the script to delay. This message is issued if `setup_server` detects that the script is being run from within SMIT. `setup_server` then exits without prompting for a password.

User Response: Exit SMIT and enter the command `setup_server` on the command line.

0016-059 **The `kproxd` daemon had a problem trying to update the Kerberos V4 database.**

Explanation: The `setup_server` script is trying to update the local Kerberos V4 database for new nodes that are being configured in the system but cannot do so because the `kproxd` daemon has had a problem. Refer to additional messages in the file `/var/adm/SPIlogs/kerberos/kproxd.log`.

User Response: If the log messages do not indicate a correctable problem, reinitialize the Kerberos V4 environment using the `setup_authent` command.

0016-060 **Unable to contact the primary Kerberos V4 server at `server_host_name` to update the Kerberos V4 database.**

Explanation: The `setup_server` script is trying to update the local Kerberos V4 database for new nodes that are being configured in the system, but cannot do so because it cannot initiate the propagation of the database using the authenticated remote command to the primary server host.

User Response: Make sure that the primary server is up and available, and that TCP/IP communication can take place between the systems. Check that the `.klogin` file in root's home directory on the primary server contains an entry for the `rcmd` service instance on the control workstation.

0016-061 **Unable to contact the primary Kerberos V4 server at `primary_server_hostname` to extract server key files.**

Explanation: The `setup_server` command was unable to obtain server key files from the primary server. Either the remote command failed, or the `ext_srvtab` command running on the primary had a problem creating the file. This could be a communication problem between the systems or a setup problem with authentication on the primary server. Check TCP/IP connectivity.

If the primary refused permission for the `rsh` command, check the `.klogin` file on the primary server system (in root's home directory). That file must contain an entry `user.admin@local_realm`, where `user` is the Kerberos V4 principal name you used to log in. If a secure remote command is being used, check the setup of the authorization keys on the primary server.

User Response: For `rsh`, if the `.klogin` statement is missing, add it, and rerun `setup_authent` (on this system). For a secure remote shell, generate and distribute the appropriate keys.

0016-062 **Could not open file: `file_name` for reading; `rc` = `return_code`.**

Explanation: The file `/etc/SDR_dest_info` could not be opened in read mode.

User Response: The file `/etc/SDR_dest_info` must exist on each node. It is created and maintained by the system software. Absence of this file signifies that the node was not properly installed, the file was accidentally deleted, or a system problem has occurred.

0016-063 *file_name* file contains no -"default:-" line.

Explanation: The file */etc/SDR_dest_info* did not contain a line beginning with the identifier "default:".

User Response: For PSSP-2.1 and later system partitions, each node in the system partition must contain the file */etc/SDR_dest_info*, which must contain a line of the form: "default: IP-address" where **IP-address** is the address of the default system partition. Absence of this line signifies that the node was not properly installed, the line was accidentally deleted, or a system problem has occurred.

0016-064 *file_name* file contains no -"primary:-" line.

Explanation: The file */etc/SDR_dest_info* did not contain a line beginning with the identifier "primary:".

User Response: For PSSP 2.1 and later system partitions, each node in the system partition must contain the file */etc/SDR_dest_info*, which must contain a line of the form: **primary: IP-address** where **IP-address** is the address of the system partition. Absence of this line signifies that the node was not properly installed, the line was accidentally deleted, or a system problem has occurred.

0016-065 Could not open file: *file_name* for writing; rc = *return_code*.

Explanation: The file */etc/SDR_dest_info* could not be opened in write mode.

User Response: The file */etc/SDR_dest_info* must exist on each node. It is created and maintained by the system software. Absence of this file signifies that the node was not properly installed, the file was accidentally deleted, or a system problem has occurred.

0016-066 Could not write to file: *file_name*.

Explanation: A write operation to the specified file had a problem.

User Response: The specified file could not be written to or created. Ensure that the file system is not full.

0016-067 Problem detected in call to **SDRGetObjects**. SDR Return Code: *return_code*.

Explanation: A problem occurred with the **SDRGetObjects** call.

User Response: A problem message prior to this was reported by the SDR call. See that problem message's action.

0016-068 Problem detected while performing a remote command to *workstation_name* with return code *return_code*. Review above messages and take appropriate action. Exiting ...

Explanation: A problem occurred issuing a remote command to *workstation_name*. There was either a time out or a lack of authorization.

User Response: The preceding messages should indicate the exact nature of the problem and action should be taken based on those problem messages.

0016-069 Not enough space in the file system *file_system* for image to be copied.

Explanation: A check for available space to expand the *file_system* indicated there was not enough space. This check is performed before trying to change the file system size.

User Response: Add more disk space to the volume group which contains the file system.

0016-070 Problem trying to open output file *output_file*. Check permissions.

Explanation: An attempt to open *output_file* for write had a problem.

User Response: Check the file permissions of the file, or check to see if there is sufficient space to create a file in that file's file system. Make sure the process has permission to write *output_file*. If space is the problem, expand the file system. Then run **setup_server** again.

0016-071 Directory/File: *directory_name* does not exist. Exiting.

Explanation: *directory_name* must be a mountable file system. If the mount does not exist and it needs to be created, it cannot be created while a directory exists with the same name.

User Response: Remove or backup the directory and its contents, then run **setup_server** again.

0016-072 Problem detected processing the following **nim** command: *nim_command*. Return code = *return_code* Check any previous problem messages for possible problems.

Explanation: The **nim** command had a problem to perform its stated action.

User Response: Review any previously issued problem messages and take the appropriate action.

0016-073 **The lppsource is not complete. Examine the following resources for correctness:**

Explanation: Rstate: *Rstate*

location: *simages*

simages: *simages*

The **lppsource** is not complete.

User Response: Create the **lppsource** again and run **setup_server** again.

0016-074 **The lpp option, *lpp_option* was not found in any lpp in the *lpp_source_directory*. Ensure the proper lpp image is in the *lpp_source_directory* and run **setup_server** again.**

Explanation: The **lpp** named was not found in the **lppsource** directory.

User Response: Load the required files in the **lppsource** directory and rerun **setup_server**.

0016-075 **Problem retrieving data from SDR; rc= *return_code*.**

Explanation: A problem occurred while attempting to obtain information from the SDR. The program ends because it cannot continue without the required information.

User Response: Check the return code from the SDR to determine the reason for the problem.

0016-076 **Error occurred while unmounting mounted image. Continuing...**

Explanation: An error occurred while using the **unmount** command to unmount the designated file system.

User Response: Follow standard problem reporting procedures.

0016-077 **The */etc/inetd_conf* file cannot be updated on server *server name*. rc = *return code*.**

Explanation: **update_inetd.conf** has had a problem updating **/etc/inetd_conf**.

User Response: Determine if **/etc/inetd_conf** exists on the server or if the file can be copied to **/etc/inetd_conf.orig**.

0016-078 **Error occurred while removing file system *file system*. Continuing**

Explanation: An error occurred while using the **rmfs** command to remove the designated file system.

User Response: Follow standard problem reporting procedures.

0016-079 **The post_process script has completed unsuccessfully with a return code of *return code*. Exiting ...**

Explanation: The **post_process** script ran unsuccessfully.

User Response: Look at the error messages displayed during the execution of the **post_process** script. Fix these errors and run **install_cw** again.

0016-080 **The SDR_init script completed unsuccessfully with a return code of *return code*. Exiting ...**

Explanation: The **SDR_init** script ran unsuccessfully.

User Response: View the log file **/var/adm/SPlogs/sdr/SDR_config.log**. Use it in conjunction with the **SDR_init** return code to fix the problem which occurred. Run the **post_process** script again.

0016-081 **An error has been encountered while internally executing the *command* command. The return code from the command is *return code*. Program name is now exiting...**

Explanation: The specified command was issued by the specified program, and did not complete successfully. It failed with the return code specified.

User Response: Observe any error messages present from the invocation of the internally issued command and use them to resolve the problem.

0016-082 **An error has been encountered while internally executing the *command* command. The return code from the command was *return code*. Program name is continuing.**

Explanation: The specified command was issued by the specified program and did not complete successfully. It returned the return code specified.

User Response: Observe any error messages present from the invocation of the internally issued command, and use them to resolve the problem.

0016-083 An error has been encountered while internally executing the command *command*. The return code from the command was *return code*. Program name is exiting.

Explanation: The specified command was issued by the specified program and did not complete successfully. It returned the return code specified.

User Response: Observe any error messages present from the execution of the internally executed command, and use them to resolve the problem.

0016-100 Unable to update *filename*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-101 Error copying */tmp/rc.tcpip* to *filename*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-102 Unable to connect to the SDR. This program is exiting.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-103 A High Performance Switch was detected in the SDR. This switch is not supported on this release of PSSP. Please upgrade your switch and retry this installation.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-104 *hardmon* subsystem has not been stopped. Unable to remove subsystem and reinitialize *hardmon*.

Explanation: The **post_process** command was not successful.

User Response: Ensure that *hardmon* has successfully stopped and rerun the **install_cw** command.

0016-105 An entry for */usr/lpp/ssp/bin/sdrd* already exists in *inittab*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-106 An error occurred when trying to add */usr/lpp/ssp/bin/sdrd* to *inittab*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-107 An entry for *hardmon* already exists in *inittab*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-108 An error occurred when trying to add *hardmon* to */etc/inittab*.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-109 *filename* is a file - should be a directory - exiting...

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-110 Required directory *directory* not found.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-111 Removing */etc/SP* entry from */etc/exports* file.

Explanation: The **post_process** command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-112 Did not create directory /usr/sys/inst.images/ssp. You will need to create this directory.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-113 Unable to extend acls for /var/adm/SPlogs/cs.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-114 Removing /etc/SP from file systems.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-115 Problem adding control workstation node number to ODM. Exit ...

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-116 spauthconfig ended with a return code of *return code*.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-117 Error on rcp.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-118 DCE is not enabled.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-119 NULL pv_list -- There was no value found in SDR.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-120 /etc/rc.sp: setclock control workstation name error with rc of *return code*.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-121 /etc/rc.sp: Unable to set surveillance mode on node *node number*.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-122 /etc/rc.sp: Unable to set surveillance interval on node *node number*.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-123 /etc/rc.sp: Setting MP configuration flags.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-124 /etc/rc.sp: Unable to determine the processors installed on this system.

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-125 Restoring partition sensitive subsystems (hats, hb, hags, and so on).

Explanation: The `post_process` command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-126 Updating /etc/SDR_dest_info...

Explanation: The program specified is trying to update the /etc/SDR_dest_info file through the use of the update_dest_info script.

User Response: None.

0016-127 No filename specified or file does not exist.

Explanation: The post_process command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-128 Empty file.

Explanation: The post_process command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-129 Usage: node_number [-h] [-new]

Explanation: The node_number command was not successful.

User Response: Correct the command syntax and reissue the command.

0016-130 /etc/rc.sp: Unable to unset surveillance mode on node node number.

Explanation: The post_process command was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-201 Incorrect number of tuples in IP address.

Explanation: The program encountered an problem in an Internet address.

User Response: Record the above information and contact the IBM Support Center.

0016-202 IP address tuple is not numeric.

Explanation: The program encountered an problem in an Internet address.

User Response: Record the above information and contact the IBM Support Center.

0016-203 IP address tuple is not 1, 2, or 3 bytes.

Explanation: The program encountered an problem in an Internet address.

User Response: Record the above information and contact the IBM Support Center.

0016-204 IP address tuple value exceeds 255.

Explanation: The program encountered an problem in an Internet address.

User Response: Record the above information and contact the IBM Support Center.

0016-205 SDR problem, rc=return_code.

Explanation: The program could not retrieve values from the SDR.

User Response: Use the SDR return code to determine where the error occurred.

0016-206 Unknown command option: command_option.

Explanation: A program option that was not valid was supplied.

User Response: Issue the command again with correct options.

0016-207 Problem to reach host_name; rc=return_code.

Explanation: The program could not communicate with the specified host name.

User Response: Resolve the communications problem and try the command again.

0016-208 Problem reading /rhosts file on control workstation; rc= return_code.

Explanation: The attempt to read the /rhosts file on the control workstation had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-209 Problem writing /rhosts file on control workstation; rc= return_code.

Explanation: The attempt to write the /rhosts file on the control workstation had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-210 **Missing */rhosts* file on control workstation; rc= *return_code*.**

Explanation: The */rhosts* file on the control workstation is missing. The program expected the file to exist and it does not.

User Response: If you manually deleted the */rhosts* file during the running of the program, ignore this message. Otherwise, follow standard problem resolution procedures.

0016-211 **Missing entry for *host_name* in */rhosts* file on control workstation.**

Explanation: The program expected (but had a problem) to find the indicated entry in the */rhosts* file on the control workstation.

User Response: If you manually deleted the entry during the running of the program, ignore this message. Otherwise, follow standard problem resolution procedures.

0016-212 **Problem deleting entry *host_name* in */rhosts* file on control workstation; rc= *return_code*.**

Explanation: The program encountered a problem in attempting to delete the indicated entry from the */rhosts* file on the control workstation. The return code is the return code from the **sed** command.

User Response: Use the return code and follow standard problem resolution procedures. Verify that the contents of the */rhosts* file on the control workstation are correct.

0016-213 **Problem reading file: *filename* on node: *node number*; rc=*return code*.**

Explanation: The program encountered a problem in attempting to read the indicated file on the indicated node. The return code is the return code from the **cat** command.

User Response: Use the return code and follow standard problem resolution procedures.

0016-214 **Invalid flag syntax: *-command flag command flag argument*.**

Explanation: A program flag argument which is not valid was supplied.

User Response: Enter the command with correct flag argument.

0016-220 **Invalid command option(s).**

Explanation: A command option that was not valid was supplied.

User Response: Submit the command again with the correct options.

0016-221 **Invalid command operand(s).**

Explanation: A command operand that was not valid was supplied.

User Response: Submit the command again with the correct operands.

0016-222 **Missing "*-l*" option.**

Explanation: The **-l** option is required for this command and was missing.

User Response: Submit the command again with the required option.

0016-223 **Invalid node number.**

Explanation: A node number that was not valid was supplied to the command.

User Response: Submit the command again with a valid node number.

0016-224 **SDR problem, rc=*return_code*.**

Explanation: The program could not retrieve values from the SDR.

User Response: Use the SDR return code to determine where the problem occurred.

0016-225 **Node *node_number* (*node_name*) is not a boot/install server.**

Explanation: The indicated node is not a boot/install server node.

User Response: Issue the command again with the node number of a boot/install server node.

0016-226 **dsh problem on *node_number* (*node_name*), rc=*return_code*.**

Explanation: The program was unable to contact the indicated node.

User Response: Resolve the communications problem and enter the command.

0016-227 **Mount of lpp source directory had a problem on *node_number (node_name)*, rc=*return_code*.**

Explanation: The program had a problem mounting the lpp source directory from the control workstation on the indicated node.

User Response: Use the reported return code from the **mount** command to diagnose the problem and issue the command again.

0016-228 **installp problem on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The **installp** command had a problem on the indicated node.

User Response: Use the reported return code from the **installp** command to diagnose the problem and issue the command again.

0016-229 **netstat problem on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The **netstat** command had a problem on the indicated node.

User Response: Use the reported return code from the **netstat** command to diagnose the problem and issue the command again.

0016-230 **Invalid SDR bootp_response value: *boot_response_value* for node *node_number (node_name)*.**

Explanation: The indicated *bootp_response* was found in the SDR for the indicated node. This *bootp_response* is not valid. The *bootp_response* value for a node is set with the **spbootins** command. A *bootp_response* that is not valid indicates a corrupted SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-231 **Client node *node_number (node_name)* not defined on server node *node_number (node_name)* (lsnim -l <client-name>; rc=*return_code*).**

Explanation: The indicated client node is not defined as a NIM client on the indicated server node. This definition must be in place for the command (*program name*) to succeed.

User Response: Use **mknimclient** to define the client node as a NIM client of the server node.

0016-232 **No ethernet adapter in "up" state on node *node_number (node_name)*.**

Explanation: The program found no Ethernet adapters in the **up** state on the indicated node.

User Response: Record the above information and contact the IBM Support Center.

0016-233 **Unable to find spot resource in NIM database on server node *node_number (node_name)* for node *node_number (node_name)*.**

Explanation: This message does not seem to be used by any command.

User Response: This message does not seem to be used by any command.

0016-234 **Unable to find matching spot resource (*spot_resource*) in NIM database on server node *node_number (node_name)* for node *node_number (node_name)*.**

Explanation: This message does not seem to be used by any command...

User Response: This message does not seem to be used by any command.

0016-235 **nimconfig problem on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The **nimconfig** command had a problem on the indicated node.

User Response: Use the reported return code from the **nimconfig** command to diagnose the problem and issue the command again.

0016-236 **Problem of "installp -C-" to cleanup had a problem install on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The **installp -C** command had a problem on the indicated node. Cleanup processing continues in the event of this error.

User Response: Check the indicated node for NIM master file sets which may have not been removed.

0016-237 **Unable to obtain node number from ODM (rc=*return_code*).**

Explanation: The program had a problem to obtain the node's node number from the ODM.

User Response: Record the above information and contact the IBM Support Center.

0016-238 **Isnim problem on server node *node_number (node_name)*, for client node *node_number (node_name)*; rc=*return_code* (or no Isnim output).**

Explanation: The Isnim command had a problem with the indicated return code (or if the return code is zero the Isnim command returned no output).

User Response: Record the above information and contact the IBM Support Center.

0016-239 **No matching network between server node *node_number (node_name)* and client node *node_number (node_name)*.**

Explanation: A network connecting the indicated server node and client node was not found.

User Response: None.

0016-240 **Problem to define client node *node_number (node_name)* on server node *node_number (node_name)* (*nim -o define*; rc=*return_code*).**

Explanation: The attempt to define the indicated client node as a NIM client on the indicated server node by issuing the **nim -o define** command had a problem.

User Response: Use the reported return code from the **nim -d define** command to diagnose the problem and issue the command again.

0016-241 **Server node *node_number (node_name)* for client node *node_number (node_name)* not configured as a NIM master.**

Explanation: The attempt to define the indicated client node as a NIM client of the indicated server node had a problem because the server node is not configured as a NIM master.

User Response: Configure the server node as a NIM master. Issue the command again.

0016-243 **This command must be run on the control workstation.**

Explanation: The command (program name) must be run on the control workstation.

User Response: Submit the command again on the control workstation.

0016-244 **Node number *node_number (node_name)* not defined in SDR.**

Explanation: The supplied node number is not defined in the SDR.

User Response: Issue the command again with a valid node number.

0016-245 **No boot/install server defined for node *node_number (node_name)*.**

Explanation: The supplied node number does not have a valid boot_server node definition in the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-246 **Directory: *directory_name* does not exist on the control workstation.**

Explanation: The indicated lpp_source directory does not exist on the control workstation.

User Response: None.

0016-247 **Problem to export *directory* on control workstation; rc=*return_code*.**

Explanation: The program had a problem to export the indicated directory on the control workstation.

User Response: Use the reported return code from the **exportfs** command to diagnose the problem and issue the command again.

0016-248 **installp problem to reject fileset installation on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The **installp -r** command had a problem on the indicated node.

User Response: Check the indicated node for NIM master file sets which may have had a problem being removed.

0016-249 **Unmount of lpp source directory had a problem on node *node_number (node_name)*, rc=*return_code*.**

Explanation: The program had a problem unmounting the lpp_source directory from the control workstation on the indicated node.

User Response: Command processing continues.

0016-250 **Problem of *host_command* command on boot/install server node *node_number*; rc=*return_code*.**

Explanation: The host command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-251 Problem to allocate spot resource *spot_resource* from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o allocate; rc=return_code**).

Explanation: The attempt to allocate the indicated SPOT resource had a problem.

User Response: Use the return code from the **nim -o allocate** command to diagnose the problem.

0016-252 Unable to find *lpp_source* resource in NIM database on server node *node_number (node_name)* for client node *node_number (node_name)*.

Explanation: This message does not seem to be used by any command.

User Response: This message does not seem to be used by any command.

0016-253 Unable to find matching *lpp_source* resource (*lpp_source_resource*) in NIM database on server node *node_number (node_name)* for client node *node_number (node_name)*.

Explanation: This message does not seem to be used by any command.

User Response: This message does not seem to be used by any command.

0016-254 Problem to allocate *lpp_source* resource *lpp_source_resource* from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o allocate; rc=return_code**).

Explanation: The attempt to allocate the indicated *lpp_source* resource had a problem.

User Response: Use the return code from the **nim -o allocate** command to diagnose the problem.

0016-255 Problem to allocate *bosinst_data* resource *bosinst_data_resource* from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o allocate; rc=return_code**).

Explanation: The attempt to allocate the indicated *bosinst_data* resource had a problem.

User Response: Use the return code from the **nim -o allocate** command to diagnose the problem.

0016-256 Problem to allocate script resource *psspscript* from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o allocate; rc=return_code**).

Explanation: The attempt to allocate the indicated script resource had a problem.

User Response: Use the return code from the **nim -o allocate** command to diagnose the problem.

0016-257 Unable to find *mksysb* resource in NIM database on server node *node_number (node_name)* for client node *node_number (node_name)*.

Explanation: The indicated server node (NIM master) does not contain a resource definition for any *mksysb* resources. The NIM master must have a *mksysb* resource defined to install the client node.

User Response: Use the **mknimres** command to define the necessary resources on the server node.

0016-258 Unable to find matching *mksysb* resource (*mksysb_resource*) in NIM database on server node *node_number (node_name)* for client node *node_number (node_name)*.

Explanation: The indicated server node (NIM master) does not contain a *mksysb* resource that matches the *mksysb* image name defined for the server node in the SDR.

User Response: Use the **mknimres** command to define the necessary resources on the server node.

0016-259 Problem to allocate *mksysb* resource *mksysb_resource* from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o allocate; rc=return_code**).

Explanation: The attempt to allocate the indicated *mksysb* resource had a problem.

User Response: Use the return code from the **nim -o allocate** command to diagnose the problem.

0016-260 Problem of *bosinst* operation (**maint**) from server node *node_number (node_name)* to client node *node_number (node_name)* (**nim -o bosinst; rc=return_code**).

Explanation: The attempt to perform the **bos_inst** operation had a problem.

User Response: Use the return code from the **nim -o bos_inst** command to diagnose the problem.

0016-261 Problem of bosinst operation (install) from server node *node_number* (*node_name*) to client node *node_number* (*node_name*) (nim -o bosinst; rc=return_code).

Explanation: The attempt to perform the **bos_inst** operation had a problem.

User Response: Use the return code from the **nim -o bos_inst** command to diagnose the problem.

0016-262 Problem of bosinst operation (migrate) from server node *node_number* (*node_name*) to client node *node_number* (*node_name*) (nim -o bosinst; rc=return_code).

Explanation: The attempt to perform the **bos_inst** operation had a problem.

User Response: Use the return code from the **nim -o bos_inst** command to diagnose the problem.

0016-263 Problem of diag operation from server node *node_number* (*node_name*) to client node *node_number* (*node_name*) (nim -o diag; rc=return_code).

Explanation: The attempt to perform the **diag** operation had a problem.

User Response: Use the return code from the **nim -o diag** command to diagnose the problem.

0016-264 Isattr on node *node_number* (*node_name*), adapter *adapter* returned **bnc_select: *bnc_select_value*; should be either -"bnc-" or -"dix-"**.

Explanation: The **Isattr** command returned a *bnc_select* value of other than **bnc** or **dix** for the indicated node.

User Response: Record the above information and contact the IBM Support Center.

0016-265 Isattr problem on node *node_number* (*node_name*), adapter *adapter*; rc: *return_code* (or no Isattr output).

Explanation: The **Isattr** command had a problem with the indicated return code (or if the return code is zero the **Isattr** command returned no output).

User Response: Record the above information and contact the IBM Support Center.

0016-266 Isattr on node *node_number* (*node_name*), adapter *adapter*, returned **bnc_dix_jumper: *bnc_dix_jumper_value*; should be -"yes-"**.

Explanation: The **Isattr** command returned the indicated *bnc_dix_jumper* value. The value should have been **yes**.

User Response: Record the above information and contact the IBM Support Center.

0016-267 Node *node_number* (*node_name*), adapter: *adapter*, has cable type=*cable_type*; SDR has cable type=*cable_type_in_SDR* (mismatch).

Explanation: The SDR and the output of the **Isattr** command differ in the value of the cable type for the indicated adapter.

User Response: The SDR has data that is potentially not valid or obsolete. Check the contents of the SDR for valid adapter information.

0016-268 Isnim on server node *node_number* (*node_name*) for client node: *node_number* (*node_name*) returned no output.

Explanation: The **Isnim** command on the indicated NIM master node did not return any output. This may have occurred if the server node has not yet been defined as a NIM master (by **mknimmast**).

User Response: Run **mknimmast** on the server node if it has not yet been configured as a NIM master and issue the original command again.

0016-269 This command must be run on the Control Workstation or a boot/install server.

Explanation: The command (**program name**) must be run on the control workstation or a boot/install server node.

User Response: Submit the command again on the control workstation or a boot/install server node.

0016-270 Node *node_number* (*node_name*) is not indicated as a boot/install server in the SDR.

Explanation: This node does not have a node that defines its boot/install server in the SDR.

User Response: Command processing continues.

0016-271 **Problem to unconfigure NIM on node**
node_number (node_name);
rc=return_code.

Explanation: The attempt to unconfigure NIM on the indicated node had a problem.

User Response: Use the return code from the **nim -o unconfig master** command to diagnose the problem.

0016-272 **Problem to uninstall *fileset_name* on**
node *node_number (node_name);*
rc=return_code.

Explanation: The attempt to uninstall the indicated NIM file set on the indicated node had a problem.

User Response: Use the return code from the **installp -u** command to diagnose the problem.

0016-273 **Cannot delete NIM client definition for**
control workstation.

Explanation: The command **delnimclient -I 0** was issued. You cannot delete the control workstation as a NIM client.

User Response: Issue the command again with a valid node number.

0016-274 **Problem to delete NIM client definition**
for node *node_number (node_name)* on
boot/install server node *node_number*
***(node_name)* (nim -o remove**
<client-name>; rc=return_code).

Explanation: The attempt to delete the indicated node as a NIM client of the indicated server node had a problem.

User Response: Use the return code from the **nim -o remove** command to diagnose the problem.

0016-275 **Problem to deallocate NIM resources**
for node *node_number (node_name)*
from boot/install server node
***node_number (node_name)* (nim -o**
deallocate ... <client-name>;
rc=return_code).

Explanation: The NIM command to deallocate resources from the specified node had a problem with the specified return code.

User Response: Use the return code from the **nim -o deallocate** command to diagnose the problem. In some instances command processing continues.

0016-276 **Problem to reset node *node_number***
***(node_name)* on boot/install server**
node *node_number (node_name)* (nim
-Fo reset <client-name>;
rc=return_code).

Explanation: The NIM command to reset the specified node had a problem with the specified return code.

User Response: Use the return code from the **nim -Fo reset** command to diagnose the problem. In some instances command processing continues.

0016-277 **Cannot create NIM client definition for**
control workstation.

Explanation: The **mknimclient -I 0** command was entered. You cannot define the control workstation (node 0) as a NIM client.

User Response: Issue the command again with a valid node number.

0016-278 **Inactive control workstation - exiting.**

Explanation: The primary or backup control workstation is not active.

User Response: Activate the control workstation that is not active and run **setup_server** again.

0016-279 **Internal call to *command_name* was not**
successful; rc=return_code.

Explanation: The internally called command *command_name* returned a nonzero return code or no output was returned to standard output.

User Response: Record the above information and contact the IBM Support Center.

0016-280 **Unable to delete NIM client definition**
for node *node_number (node_name)* due
to allocated resources. Use
unallnimres to deallocate resources
and retry.

Explanation: The attempt to delete the NIM client definition had a problem because the indicated NIM client has resources allocated to it. You cannot delete a NIM client while it has resources allocated.

User Response: Deallocate resources (**unallnimres**) and try the command again.

0016-282 **The *lsnim* command had a problem on**
***host_name* with return code**
return_code.

Explanation: The NIM command, **lsnim**, had a problem.

User Response: Run the **lsnim** command on the

machine named in the problem message and take appropriate action to resolve the problem.

0016-283 **The netstat command had a problem on *host_name* with return code *return_code*.**

Explanation: A base AIX command, **netstat**, has had a problem.

User Response: Run the **netstat** command on the machine named in the problem message and take appropriate actions to resolve the problem.

0016-284 **The lsattr command had a problem on *host_name* with return code *return_code*.**

Explanation: A base AIX command, **lsattr**, had a problem.

User Response: Run the **lsattr** command on the machine named in the problem message and take appropriate action to resolve the problem.

0016-285 **Cannot find the cable type for logical device *ent number* on *host_name*.**

Explanation: A problem occurred attempting to define an Ethernet interface to NIM. The cable type could not be determined. The **lsattr** command could not find either a *bnc_select* or a *vnc_dix_jumper* attribute for the adapter.

User Response: Run the **lsattr** command for the Ethernet adapter named in the problem message to determine why the cable type could not be found.

0016-286 **The nim -o define command had a problem defining spnet_*interface* on *host_name* with return code *return_code*.**

Explanation: A problem occurred in attempting to define an interface to NIM.

User Response: Refer to the NIM problem message and the return code from the NIM command to decide on appropriate action to resolve the problem.

0016-287 **The lsnim -A if -I master command had a problem on *host_name* with return code *return_code*.**

Explanation: The **lsnim** command had a problem finding the next interface number.

User Response: Run the command **lsnim -A if -I master** on the NIM master to reproduce the associated problem message and take appropriate action.

0016-288 **The host command had a problem on *host_name* for *IP_address* with return code *return_code*.**

Explanation: The **host** command had a problem to find a host name for the IP address in the problem message.

User Response: Run the **host** command with the IP address in the problem message to see the problem, and take appropriate action to resolve the problem.

0016-289 **The nim -o change command had a problem for spnet_*interface* on *host_name* with return code *return_code*.**

Explanation: The **nim -o change** command had a problem adding a route.

User Response: Refer to the NIM problem message and return code and take appropriate action to resolve the problem.

0016-290 **The netstat had a problem on the control workstation with return code *return_code*.**

Explanation: The **netstat** command had a problem on the control workstation.

User Response: Run the **netstat -i** command on the control workstation to reproduce the problem, and take appropriate action to resolve the problem.

0016-291 **The lsattr on the control workstation had a problem for interface *interface* with return code *return_code*.**

Explanation: The **lsattr** command had a problem on the control workstation.

User Response: Run the **lsattr -E -I** command for the interface named in the problem message to see the problem, and take appropriate action to resolve the problem.

0016-292 **The lsattr on the control workstation had a problem attempting to get the ring_speed for interface *interface* with return code *return_code*.**

Explanation: The **lsattr** command had a problem on the control workstation.

User Response: Run the **lsattr -E -I <interface> -a ring_speed** command on the control workstation to see the problem and take appropriate action to resolve.

0016-293 **The lsattr on the control workstation had a problem attempting to get the attribute bnc_dix_jumper for interface interface with return code return_code.**

Explanation: The **lsattr** command had a problem on the control workstation.

User Response: Run the **lsattr -E -l <interface> -a bnc_dix_jumper** command on the control workstation to see the problem and take appropriate action to resolve.

0016-294 **The nim -o define had a problem for cw_interface on host_name with return code return_code.**

Explanation: The **nim -o define** command had a problem defining an interface to NIM.

User Response: Check the NIM problem message and try to determine why the interface could not be defined to NIM. Contact the IBM Support Center, if necessary.

0016-295 **The nim -o define command for the control workstation on host_name had a problem with return code return_code.**

Explanation: The **nim -o define** command had a problem defining the control workstation as a client of the NIM master (boot/install server).

User Response: The control workstation must be able to be defined as a NIM client of the boot/install server so that the lpp_source resources can be accessed from the control workstation.

0016-296 **The lsnim -l control_workstation_name on host_name had a problem with return code return_code.**

Explanation: The **lsnim** command had a problem on the named system.

User Response: Run the **lsnim** command as in the problem message and take appropriate action based on the problem.

0016-297 **Unable to define nim object for control workstation on host_name.**

Explanation: NIM had a problem defining the control workstation as a client of a NIM master (boot/install server).

User Response: Refer to the accompanying NIM problem message and correct the problem, then run the **mknimint** command again.

0016-298 **The lsnim -Za had a problem for control_workstation_name on host_name.**

Explanation: The **lsnim** command had a problem on the named node or control workstation.

User Response: Refer to the accompanying NIM problem message, take appropriate action, and run the **mknimint** command again.

0016-299 **The lsnim -A had a problem for control_workstation_name on host_name with a return code of return_code.**

Explanation: The **lsnim** command had a problem on the named node or control workstation.

User Response: Refer to the accompanying NIM problem message, take appropriate action, and run the **mknimint** command again.

0016-360 **Unable to add interface definition sequence_number for interface.**

Explanation: The **mknimint** had a problem in an attempt to define an interface for the named communications device.

User Response: Refer to the accompanying NIM problem message, take appropriate action, and run the **mknimint** command again.

0016-361 **Node is not installed as a NIM master.**

Explanation: Node is not a NIM master.

User Response: Configure the SDR to indicate that this node should be a NIM master and run **setup_server**.

0016-362 **The lsnim -l command had a problem on host_name with return code return_code.**

Explanation: The **lsnim** command had a problem on the named system.

User Response: Run the **lsnim -l** command on the named system to reproduce the NIM problem message and take appropriate action to correct the problem.

0016-363 **Problem copying config_path/bosinst_data.template to bosinst_path/bosinst_data while attempting to make the noprompt resource.**

Explanation: A problem occurred when copying the **/usr/lpp/ssp/install/config/bosinst_data.template** to the **/spdata/sys1/install/pssp** directory while creating a **bosinst_data** resource.

User Response: Check the permissions of the source

file and destination directory. Check available disk space. Take appropriate action to resolve the problem.

0016-364 **Problem copying *config_path* /bosinst_data_prompt.template to *bosinst_path*/bosinst_data_prompt while attempting to make the prompt resource.**

Explanation: A problem occurred when copying the /usr/lpp/ssp/install/config/bosinst_data_prompt.template to the bosinst_data resource.

User Response: Check the permissions of the source file and destination directory. Check available disk space. Take appropriate action to resolve the problem.

0016-365 **Problem copying *config_path* /bosinst_data_migrate.template to *bosinst_path* /bosinst_data_migrate while attempting to make the migrate resource.**

Explanation: A problem occurred when copying the /usr/lpp/ssp/install/config/bosinst_data_migrate.template to the /spdata/sys1/install/pssp directory while creating a bosinst_data resource.

User Response: Check the permissions of the source file and destination directory, and available disk space, and take appropriate action.

0016-366 **Problem defining prompt resource on *host_name*, return code = *return_code*.**

Explanation: A problem occurred when defining the prompt resource.

User Response: Refer to the NIM problem message and take appropriate action to correct the problem.

0016-367 **Problem defining noprompt resource on *host_name*, return code = *return_code*.**

Explanation: A problem occurred when defining the noprompt resource.

User Response: Refer to the NIM problem message and take appropriate action to correct the problem.

0016-368 **Problem defining migrate resource on *host_name*, return code = *return_code*.**

Explanation: A problem occurred when defining the migrate resource.

User Response: Refer to the NIM problem message and take appropriate action to correct the problem.

0016-369 **Problem creating custom bosinst_data file for node *node* on *host_name*.**

Explanation: A problem occurred when creating a custom bosinst_data resource. A custom bosinst_data resource is required when the *install_disk* of the node object in the SDR is not equal to **hdisk0**.

User Response: Check the format of the *install_disk* attribute to make sure the node is valid. Check to make sure there is space available in the /spdata/sys1/install/pssp directory for the custom bosinst_data file.

0016-370 **Problem copying *source_file* to *target_file* on *host_name*, return code of *return_code*.**

Explanation: A problem occurred during a copy operation.

User Response: Examine the source and destination files and directories for possible permission and space problems, and correct the problem.

0016-371 **The mkdir of *bosinst_path* on *host_name* had a problem with return code *return_code*.**

Explanation: The **mkdir** command of the named path had a problem.

User Response: Attempt to **mkdir** the specified directory on the named system to see the problem message and take appropriate action.

0016-372 **Was not successful to create the script resource *psspscript* on *host_name* with return code *return_code*.**

Explanation: The creation of the *psspscript* resource had a problem.

User Response: Refer to the accompanying NIM problem message to determine the appropriate action.

0016-373 **A problem occurred trying to get all the *lppsource_name* attributes from the SDR on *host_name*.**

Explanation: An **SDRGetObjects** command of all the *lppsource_name* attributes had a problem.

User Response: Fix the problem with the SDR and run the **SDRGetObjects** command again.

0016-374 **The *lsnim -t lpp_source* had a problem on *host_name* with return code *return_code*.**

Explanation: The **lsnim -t** command had a problem on the named system.

User Response: Run the `lsnim -t lpp_source` command on the named system to reproduce the NIM problem message and take appropriate action to correct the problem.

0016-375 The creation of the `lppsource` resource named `lppsource_lpp_array` had a problem with return code `return_code`.

Explanation: A problem occurred during creation of the `lppsource_resource` on the control workstation.

User Response: Refer to the accompanying NIM problem message and take appropriate action.

0016-376 Definition of the `lpp_source` resource named `lppsource_lpp_array` had a problem on node `node_number`.

Explanation: A problem occurred while attempting to define the `lpp_source` resource on a boot/install server (NIM master).

User Response: The boot/install server must be able to route to the control workstation over the networks defined to NIM to successfully define the `lppsource` resource. Check to make sure that all Ethernet and token ring interfaces on both the control workstation and the boot/install server are defined to NIM, and that a route is available. Use the `mknimint` command to define networks, or run the `setup_server` again.

0016-377 Making the NFS export (`mknfsexp`) of `lpp_source_directory` had a problem with return code `return_code`.

Explanation: An attempt to make an NFS export for the named directory using the `mknfsexp` command had a problem.

User Response: Check the `/etc/exports` file for possible problems. If necessary, stop and start the NFS again and run the `mknimres` command again.

0016-378 The `mkdir` of `images_path` on `host_name` had a problem with return code `return_code`.

Explanation: The `mkdir` command of the named directory had a problem.

User Response: Try to create the named directory using the `mkdir` command and take appropriate action from the AIX problem message.

0016-379 Problem attempting to do an `SDRGetObjects` of the `Syspar_map` object on `host_name` with return code `return_code`.

Explanation: An `SDRGetObjects` command had a problem for `Syspar_map`.

User Response: Try to correct the SDR problem and run the `mknimres` command again.

0016-380 Problem attempting to do an `SDRGetObjects` of the `Syspar_name` object on `host_name` with return code `return_code`.

Explanation: An `SDRGetObjects` command had a problem for `Syspar_name`.

User Response: Try to correct the SDR problem and run the `mknimres` command again.

0016-381 Problem attempting to do an `SDRGetObjects` of the `Node` object on `host_name` with return code `return_code`.

Explanation: An `SDRGetObjects` command had a problem for the node object.

User Response: Try to correct the SDR problem and run the `mknimres` command again.

0016-382 A `mksysb` by the name of `mksysb_names_array` does not exist on the control workstation; therefore the `mksysb` resource cannot be created by NIM.

Explanation: The necessary `mksysb` files do not exist in the `/spdata/sys1/install/images` directory on the control workstation. The `mknimres` command could not continue.

User Response: Display all the `mksysb` image names for all clients of the boot/install server using the `splstdata` command, and make sure that the necessary `mksysb` images exist on the control workstation. When the `mksysb` images are available on the control workstation, run `mknimres` again.

0016-383 Could not get size of `mksysb_names_array` on the control workstation, return code of `return_code`.

Explanation: The `get_size` program had a problem on the control workstation.

User Response: Run `/usr/lpp/ssp/install/bin/get_size` of the named file on the control workstation to see the problem message and take appropriate action.

0016-384 Was not successful to make logical volume or file system for `mksysb` image on `host_name`.

Explanation: The creation of the logical volume for a `mksysb` file had a problem on a boot/install server.

User Response: Make sure that there is enough

space in the root volume group to create the `mksysb` logical volume and run the `mknimres` command again.

0016-385 **The remote copy of `mksysb` `mksysb_names_array` had a problem with return code `return_code`.**

Explanation: A remote copy of a `mksysb` from the control workstation to a boot/install server had a problem.

User Response: Ensure that:

- The `mksysb` exists on the control workstation.
- The permissions are set properly.
- There is adequate space on the boot/install server for the `mksysb`.
- Authentication permits the remote command.

Run the `mknimres` command again.

0016-386 **Was not successful to define a `mksysb` resource named `temporary_resource_name` on `host_name` with return code `return_code`.**

Explanation: Although the `mksysb` file was successfully copied from the control workstation to the boot/install server node, the NIM definition of the `mksysb` had a problem.

User Response: Refer to the NIM problem message for additional information and appropriate action.

0016-387 **Problem attempting to do an `SDRGetObjects` of the `lppsource_name` from `host_name` with return code `return_code`.**

Explanation: An `SDRGetObjects` for the `lppsource_name` attribute had a problem.

User Response: Fix the `SDR` problem and run the `mknimres` command again.

0016-388 **The `lsnim -t spot` had a problem on host `host_name` with return code `return_code`.**

Explanation: The `lsnim -t <spot>` command had a problem on the named system.

User Response: Try to run the `lsnim -t <spot>` or the `lsnim -l` command on the named system, and refer to the NIM problem message for additional information.

0016-389 **The `mkdir` of `install_path/spot_array/spot` on `host_name` had a problem with error code `return_code`.**

Explanation: The `mkdir` command of the named directory had a problem.

User Response: Try to create the named directory on

the named system using the `mkdir` command, take appropriate action to correct the problem, and run the `mknimres` command again.

0016-390 **Was not successful to make logical volume or file system for `install_path/spot_array/spot` on `host_name`.**

Explanation: Either the creation of the logical volume or file system for the spot had a problem.

User Response: Make sure that there is enough space on the rootvg for the spot and run the `mknimres` command again.

0016-391 **Was not successful to define the spot named `spot_spot_array` at location `install_path/spot_array/spot` on `host_name` with return code `return_code`.**

Explanation: The spot creation had a problem.

User Response: Refer to the NIM problem message for additional information and corrective action.

0016-392 **`SDRGetObjects` on node `node_number` had a problem with return code `return_code`.**

Explanation: The `SDRGetObjects` command had a problem.

User Response: Fix the `SDRGetObjects` problem and run the `mknimres` command again.

0016-393 **The `splst_versions` command had a problem with return code `return_code`.**

Explanation: The `splst_versions` command had a problem.

User Response: Check to make sure that the `splst_versions` exists in the `/usr/lpp/ssp/bin` directory, the permissions are correct, and run the `mknimres` command again.

0016-394 **Problem creating directory `PSSP_lpp_path` on `host_name`.**

Explanation: The `mkdir` command had a problem for the named directory.

User Response: Try to create the named directory on the named system using the `mkdir` command, and take appropriate action based on the `mkdir` problem message.

0016-395 **Could not get size of**
PSSP_lpp_path/code_version-
code_index- /pssp.install on control
workstation, return code of *return_code*
missing files are *filelist*.

Explanation: The **get_size** program had a problem on the control workstation.

User Response: Run
/usr/lpp/ssp/install/bin/get_size of the named file on the control workstation to reproduce the problem message, and take appropriate corrective action.

0016-396 **Was not successful to make logical volume or file system for pssplpp on**
host_name.

Explanation: Either the creation of the logical volume or file system for the pssplpp had a problem.

User Response: Make sure that there is enough space on the rootvg for the pssplpp, and run the **mknimres** command again.

0016-397 **Problem creating directory**
PSSP_lpp_path/code_version-
code_index- on host_name.

Explanation: The **mkdir** had a problem for the named directory.

User Response: Try to create the named directory on the named system using the **mkdir** command, and take appropriate action based on the **mkdir** problem message.

0016-398 **The remote copy of pssplpp**
code_version-code_index had a problem
with return code *return_code*.

Explanation: A remote copy of a **pssplpp** from the control workstation to a boot/install server had a problem.

User Response: Make sure that the **pssplpp** exists on the control workstation, permissions are set properly, there is enough space on the boot/install server for the **pssplpp**, and authentication permits the remote copy, and run the **mknimres** command again.

0016-399 **The Isnim -Za Rstate command on**
host_name for resource *resource_name*
had a problem with return code
return_code.

Explanation: An attempt to determine the state of the NIM resource had a problem.

User Response: Run the **Isnim -Za Rstate <resource name>** on the boot/install server to see the NIM problem message, take appropriate corrective action, and run the **mknimres** command again.

0016-400 **Creation of the *resource_name* resource**
apparently had a problem, since the
Rstate is not 'ready for use'. Check
previous messages for possible cause.

Explanation: The definition of a NIM resource completed, but the Rstate was not set to *ready for use*.

User Response: The resource is not usable in its present state. You can issue an **Isnim -l <resource name>** to view the state of the resource, and attempt to take corrective action. If this is not helpful, issue a **nim -o remove <resource name>** on the boot/install server, and run the **mknimres** command again to attempt to recreate the resource.

0016-401 **The Isnim -Za simages command on**
host_name for resource *resource_name*
had a problem with return code
return_code.

Explanation: The NIM **Isnim -Za simages** command had a problem on the control workstation for the named *lpp_source*.

User Response: Try to run the **Isnim -Za simages** on the control workstation to reproduce the NIM problem message, and take appropriate corrective action.

0016-402 **Creation of the *lpp_source***
resource_name succeeded; however,
some of the support images (simages)
were missing. Installation of further
systems is not possible with this
lpp_source.

Explanation: The *lpp_source* resource was defined, however *simages* was set to *no*.

User Response: The *simages* attribute describes whether all the necessary filesets exist in the **lpp_source** directory to successfully install a node. If *simages=yes*, the necessary filesets exist. If *simages=no*, some filesets are missing.

At the conclusion of the **mknimres** command, if *simages=no*, the *lppsource_resource* is deleted, since it is not usable. Refer to the *PSSP: Installation and Migration Guide* for the list of required file sets, update the *lppsource* directory, and run the **mknimres** command again.

0016-403 **Timed out waiting to get lock on**
control_workstation_name for *lpp_source*
source_level.

Explanation: After waiting 30 minutes for the lock to free up for the **lppsource** directory, **mknimres** exited.

User Response: This probably is a lock problem. Make sure that the owner of the lock still requires the lock by issuing the **cat** command on the lock file. The lock is only required during the inutoc of the **lppsource**

directory on the control workstation. If you are certain that the node that has locked the **lppsource** directory no longer needs the lock, erase it using the **rm** command, and rerun **mknimres**. The lock is in **lppsource** directory on the control workstation, and is named **lppsource.lock**.

0016-404 **Unable to remove the lock for the lpp_source resource *source_level* owned by *node_name*; continuing with mknimres.**

Explanation: A node is finished with the lppsource lock, however, it could not remove the lock to free it for the next node.

User Response: Display the lock file using the **cat** command. If the lock is no longer required by the owner, delete the lock using the **rm** command, and run the **mknimres** command again. The lock is in the lppsource directory on the control workstation, named **lppsource.lock**.

0016-405 **Caught signal SIG*signal_number*, exiting after freeing the lppsource lock.**

Explanation: The **mknimres** command was interrupted by a signal and is exiting after freeing the lppsource lock.

User Response: No action required.

0016-406 **Exiting as result of QUIT, INT or TERM signal.**

Explanation: The **mknimres** command is exiting due to a user signal.

User Response: No action required.

0016-407 **Refer to /tmp/spot.out.(process_id) or the /tmp/spot.update.out. (process_id) for more debug information.**

Explanation: **mknimres** is exiting due to spot creation problems.

User Response: Refer to the spot.out and spot.update.out files in /tmp. These files are logs that log all of the actions NIM took during spot creation. Starting from the last line of the file and working backward, you should see the problem which caused the exiting. Typically, in the spot.out file, the problem is because the file system or logical volume used for the spot is out of space. The problem logged in the spot.update.out file is because the status of the spot Rstate is "not ready for use". Take corrective action and rerun **setup_server** or **mknimres**.

0016-408 **Could not remove spot named *spot name* on *host name*. Deallocate the spot from all clients and rerun delnimmast.**

Explanation: **delnimmast** is exiting due to a problem removing the spot during master deletion

User Response: Use **unallnimres** to deallocate the spot from all clients, and run **delnimmast** again.

0016-409 **Could not remove resource named *spot_name* on *host_name*. Refer to the NIM problem message for appropriate action.**

Explanation: **mknimres** exists because it detected a resource that is not in a "ready for use" state and because deleting the resource had a problem.

User Response: Run **lsnim -l** on the resource on the master node to determine what the problem was. If the resource is locked by NIM, you may have to start and stop the NIM **nimesis** daemon by issuing **stopsrc -a nimesis** and **startsrc -a nimesis**.

0016-410 **traceroute had a problem on control_workstation for client *client_node_name* with a return code of *return_code*.**

Explanation: The **traceroute** command had a problem on the Control Workstation.

User Response: Correct your network routing or configuration. Verify that the Control Workstation is able to connect to all of the nodes.

0016-411 **Could not find a route from control_workstation to client *client_node_name*.**

Explanation: The **traceroute** command was unable to connect to the client.

User Response: Correct your network routing or configuration. Verify that the Control Workstation is able to connect to all of the nodes.

0016-412 **Cannot complete the client *client_node_name* definition because there is no route to the control workstation.**

Explanation: There is no route to the Control Workstation for this client.

User Response: Correct your network routing or configuration. Verify that the client is able to route to the Control Workstation.

0016-413 **Isnim -A *original_network* had a problem on *server_node_name*.**

Explanation: The Isnim command had a problem on the named node.

User Response: Refer to the accompanying NIM problem message, take appropriate corrective action and rerun the command.

0016-414 **Adding the route for the client *client_node_name* to the network *server_network* on *server_node_name* had a problem.**

Explanation: The attempt to add a route had a problem.

User Response: Correct your network routing or configuration. The route command given may be issued on the target machine manually and action taken based upon the problem.

0016-415 **The Isnim command had a problem on *network_hostname* with a return code of *return_code*.**

Explanation: The Isnim command had a problem on the named node.

User Response: Refer to the accompanying NIM problem message, take appropriate corrective action and rerun the command.

0016-416 **The repository contains an invalid hardware ethernet address for node *network_hostname* (*return_code*). Correct the value using sphrdwrad and rerun the command.**

Explanation: The SDR node object for the named node contains a hardware Ethernet address which is not valid.

User Response: Obtain the correct hardware address using the sphrdwrad command. If you are using the */etc/bootptab.info* file, verify that the hardware Ethernet address in that file is correct.

0016-417 **Problem to delete NIM resource *resource name*. (*nim -o remove <resource> rc=return_code*).**

Explanation: The attempt to delete the NIM resource had a problem.

User Response: Use the NIM problem message to diagnose the problem and delete the resource manually.

0016-418 **Problem to delete file *filename*. (*rm <filename> rc=return_code*).**

Explanation: The attempt to delete the file had a problem.

User Response: Use the AIX problem message to diagnose the problem and delete the file manually.

0016-419 **Was not successful to update the spot named *spot array* from *lppsource* named *lppsource name* on *hostname* with return code *return_code*.**

Explanation: spot update had a problem

User Response: Refer to the NIM problem message for additional information and corrective action

0016-420 **Refer to */tmp/spot.update.out.process id* for more debug information.**

Explanation: mknimres is exiting due to spot update problem

User Response: Refer to the **spot.update.out** file in */tmp*. This is a log of all the actions NIM took during the spot update. Starting from the last line of the file and working backward, you should see the problem which caused the problem.

Take corrective action and rerun **setup_server** or **mknimres**.

0016-421 **Vital Product Data *umlc* files */var/adm/SPlogs/SPconfig/*.umlc* do not exist.**

Explanation: There are no vital product data files to be processed.

User Response: The */var/adm/SPlogs/SPconfig* directory on the control workstation should contain a *node number .umlc* file for each node. These files are generated on the nodes during boot processing of the nodes and copied back to the control workstation. You may either logon to each node and copy the file back to the control workstation or reboot each node to cause the file to be created and copied back to the control workstation.

0016-422 **Incorrect number of operands.**

Explanation: An incorrect number of operands was specified on the command line.

User Response: Correct the problem and enter the command.

0016-423 Invalid operand.

Explanation: An operand which is not valid was specified on the command line.

User Response: Correct the problem and enter the command.

0016-424 File *file name* does not exist.

Explanation: The specified file name does not exist.

User Response: Enter the command specifying an existing file name.

0016-425 Problem encountered while copying to /tftpboot/tuning.cust (rc=*return_code*)

Explanation: A problem was encountered while copying the file to /tftpboot/tuning.cust. The return code is the exit value returned by the **cp** command.

User Response: Use the return code to determine why the **cp** command had a problem.

0016-426 Problem encountered while setting permissions for /tftpboot/tuning.cust (return code=*return_code*)

Explanation: A problem was encountered while setting file permissions for /tftpboot/tuning.cust. The return code is the exit value returned by the **chmod** command.

User Response: Use the return code to determine why the **chmod** command had a problem.

0016-427 The **Isnim -Zt lpp_source had a problem on boot/install server node *node number*. Cannot find **lpp_source** on this boot/install server.**

Explanation: Either the **Isnim** command had a problem or there is no **lpp_source** resource defined on the boot/install server. **mkinstall** cannot create the *reliable_hostname.install_info* files for the NIM client nodes of this boot/install server.

User Response: Review previous problem messages from **mknimres** to see why **lpp_source** resource was not defined on this boot install server or try to determine what is causing the **Isnim** command to have a problem on this boot install server.

0016-428 Cannot create the client **srvtab file for node number *node number*. No hostname information was found in the SDR.**

Explanation: There was no hostname information in the SDR.

User Response: Run **spethernt** for the problem nodes to define the hostname information.

0016-429 Problem occurred while attempting to determine whether the control workstation is part of an HACWS configuration.

Explanation: The **Ishacws** command had a problem.

User Response: Run the **Ishacws** command and investigate any problem messages.

0016-430 This command is not compatible with HACWS. You must run the /usr/sbin/hacws/install_hacws command instead.

Explanation: You cannot run the **install_cw** command on a control workstation which is part of an HACWS configuration.

User Response: Run the **/usr/sbin/hacws/install_hacws** command instead.

0016-431 Problem found while assigning value to SDR SP **authent_server attribute. SDR Return Code: *return_code*.**

Explanation: The SP **authent_server** attribute could not be assigned a value in the SDR.

User Response: Use the SDR return code to determine where the problem occurred. You may also use the **splstdata** command to verify the SP object information stored in the SDR.

0016-432 SDR problem while updating model information. rc=*return_code*.

Explanation: A problem occurred while updating the SDR.

User Response: See previous SDR problems to determine cause of problem

0016-433 Could not create NIM client definition for node *node name* because of missing or invalid SDR *field* attribute in the SDR.

Explanation: When attempting to define a NIM client, a field necessary to define the client was missing or was not valid.

User Response: Correct the field in the SDR, and rerun **mknimclient**.

0016-434 You may only specify one of *flags*.

Explanation: Conflicting flags were specified.

User Response: Enter the command using only one of the flags.

0016-435 The host responds for node *node number (hostname)* is down. Cannot obtain description information from the node.

Explanation: The value of `host_responds` in the SDR indicates that the node is unreachable.

User Response: Correct the `host_responds` problem and enter the command.

0016-436 The machine id of node *node number (hostname)* does not match a known node. Machine id=*machine id*.

Explanation: The machine id obtained from the `uname` command on the node is not a known machine id.

User Response: Contact your IBM service representative.

0016-437 Problem obtaining description information from node *node number (hostname)*.

Explanation: No description information was obtained from the node.

User Response: See previous messages to determine the problem. Enter the command after correcting the problem.

0016-438 Dsh problem. rc=*return_code*.

Explanation: There was an problem while attempting to `dsh`.

User Response: See previous messages to determine the problem. Enter the command after correcting the problem.

0016-439 You must specify one of *flags*.

Explanation: One of the required flags was omitted.

User Response: Enter the command using one of the required flags.

0016-440 Was not successful to resolve node group *node group*. rc=*return_code*.

Explanation: The `ngresolve` command had a problem to resolve the node group

User Response: Correct the node group name and enter the command.

0016-441 The serial number *serial_number* is invalid.

Explanation: The specified serial number is not valid.

User Response: Specify a valid serial number. The value of the serial number is *pp00sssss*, where:

- *pp* is the origin of the machine
 - **02** for US (Poughkeepsie, New York)
 - **51** for EMEA (Montpellier, France)
- **00** is a mandatory value
- *sssss* is the serial number of the machine

0016-442 The length of the model number is invalid. It must be 3 characters.

Explanation: The length of the specified model number is not valid.

User Response: The model number must be 3 characters.

0016-443 The `niminit` command had a problem on *host_name* with a return code of *return_code*.

Explanation: The `niminit` command had a problem while attempting to create the `/etc/niminfo` file.

User Response: Use the return code from the `niminit` command to diagnose the problem. Enter the `niminit` command.

0016-444 The `lsnim` command had a problem for node *node number (node name)* on server node *node number (node name)* (`lsnim -c resources <client-name> rc=return_code`).

Explanation: The indicated client node is not defined as a NIM client on the indicated server node. This definition must be in place for the command (program name) to succeed.

User Response: Use `mknimclient` to define the client node as a NIM client of the server node.

0016-445 `SDRGetObjects` on node *node number* had a problem with return code *return_code*.

Explanation: The `SDRGetObjects` command had a problem.

User Response: Fix the `SDRGetObjects` problem and rerun the program.

0016-446 The `splst_versions` command had a problem with return code `return_code`.

Explanation: The `splst_versions` command had a problem.

User Response: Check to make sure that `splst_versions` exists in `/usr/lpp/ssp/bin`. Check also that the permissions are correct. Then, rerun the `mkinstall` command.

0016-447 Node is not a boot/install server, exiting.

Explanation: `program name` had a problem during prereq checking. The command (`mkinstall`, `mkconfig`) must be run from a server node, and the node on which it was executed is not.

User Response: Ensure that you are executing this command from a server node. If you are not, move to a server node, and re-execute.

0016-448 Unable to remove. The remove request ended with a return code `return_code`.

Explanation: `program name` attempted to do a remove of a specified file. The system call to the `rm` command had a problem with the reported return code.

User Response: Determine why the remove had a problem. Ensure that the file exists, and if not, why? Once this is determined, rerun your command.

0016-449 An attempt to open `tftpboot,filename` to open had a problem with a return code of `return_code`.

Explanation: `program name` attempted to open the specified file, and had a problem with the displayed return code.

User Response: Ensure that the file exists and has the proper file permissions. Rerun the command

0016-450 Unable to remove `/spdata/sys1/install/`. `rm -rf` had a problem with a return code = `return_code`. Processing continues.

Explanation: The attempt to remove the PSSP installation directory had a problem.

User Response: Use the return code from the `rm -rf` command to determine the cause of the problem, then manually remove the files and associated directory.

0016-451 Unable to obtain a ticket for principal `hardmon.hostname.ksrvtgt` `rc=return_code`.

Explanation: An attempt to get a ticket for a hardmon principal had a problem.

User Response: Check to make sure that you can acquire a ticket for a hardmon principal and enter the command.

0016-452 Vital Product Data file `umlc` `directorynode number.umlc` does not exist. Vital Product Data will not be generated for node.

Explanation: While processing the Vital Product Data, a node object was found in the SDR which did not have a corresponding `umlc` file.

User Response: To generate a `umlc` file for a node you can either reboot the node or run `/usr/lpp/ssp/install/bin/save_config` on the node.

0016-453 Command "`uname -M`" had a problem. `rc=return_code`.

Explanation: While attempting to determine the node type the `uname` command had a problem.

User Response: Determine the reason for the `uname -M` problem and run the command again.

0016-454 An ODM request had a problem. `rc=return_code`.

Explanation: While attempting to gather the total memory size from the ODM, a nonzero return code was encountered from the `odmget` command.

User Response: Verify that the ODM directory `/etc/objrepos` exists. Issue `odmdir=/etc/objrepos odmget CuAt` to see if any ODM info for CuAt exists. Issue `odmdir=/etc/objrepos odmget -q "name=mem0" CuAt` to see if the `mem0` stanza exists.

0016-455 Command `command name` had a problem. `rc=return_code`.

Explanation: The program had a problem while attempting to gather system information.

User Response: Check the permissions of the command. Resolve the problem with the problem command and run the `save_config` command again.

0016-456 Removing the NFS export of the NIM script directory had a problem on node `node number (rmnfsexp -d (directory))` `rc=return_code`.

Explanation: The removal of the NIM export directory had a problem on the indicated node.

User Response: Use the return code from the command to diagnose the problem.

0016-457 Was not successful to update the .toc file in pssplpp *pssplpp name*. Return code of *return_code*.

Explanation: The inutoc had a problem with the listed return code.

User Response: Correct the problem and rerun the inutoc in the named pssplpp directory on the boot/install server manually.

0016-458 An attempt to write to the file *filename* had a problem with return code *return_code*.

Explanation: *program name* attempted to write data to the specified file, and had a problem with the displayed return code.

User Response: Ensure that the file system is not full.

0016-459 Could not write to file *filename*. Return code is *return_code*.

Explanation: *program name* attempted to write data to the specified file, and had a problem with the displayed return code.

User Response: Determine why it is possible to echo/redirect data to the specified file.

0016-460 Unable to obtain a never-expiring kerberos V4 ticket. rcmtgt had a problem with a return code of *return_code*.

Explanation: The rcmtgt command had a problem with the given return code.

User Response: Correct the Kerberos V4 problem and rerun the **setup_server** or **mknimres**.

0016-461 ATTENTION !!! Ignoring updauthfiles command problem. Please see the logfile of the updauthfiles command: */var/adm/SPlogs/auth_install/logs* for more information.

Explanation: The invoked **updauthfiles** command has had a problem.

User Response: Examine the logfile for problem messages produced by the **updauthfiles** command and take appropriate action.

0016-462 ATTENTION !!! updauthfiles command cannot connect to one or more nodes to update authorization files. Please see the logfile of updauthfiles: */var/adm/SPlogs/auth_install/log* for more information.

Explanation: The remote command to some nodes had a problem. The nodes may be down. Also, there could be no common authentication mechanism enabled between the control workstation and the nodes.

User Response: Examine the logfile produced by the **updauthfiles** command to find the list of nodes on which the remote command has had a problem. If the nodes are down, the **updauthfiles** command will be run locally on the nodes when they are rebooted.

0016-463 ATTENTION !!! updauthfiles command had a problem in one or more remote nodes. Please see the logfile of updauthfiles: */var/adm/SPlogs/auth_install/log* for more information.

Explanation: The remote command has succeeded but the command has had a problem on one or more remote nodes. This problem message will NOT be displayed if the problem is due to the **updauthfiles** command not being found on the remote node. That situation produces a separate informational message.

User Response: Examine the logfile produced by **updauthfiles** to find the list of nodes on which the command has had a problem. For specific information about the problem on one remote node, see the logfile with the same name on that node.

0016-464 The lshacws command had a problem on *control workstation name* with return code of *return_code*.

Explanation: The **lshacws** command had a problem on the control workstation.

User Response: Run the **lshacws** command on the control workstation to see the problem and take the appropriate action to resolve the problem.

0016-465 The cllsif command had a problem on *control workstation name* with return code of *return_code*.

Explanation: The **cllsif** command had a problem on the control workstation.

User Response: Run the **cllsif** command on the control workstation to see the problem and take the appropriate action to resolve the problem.

0016-466 Could not get the size of *image name*, return code of *return_code*.

Explanation: The `get_size` program had a problem getting the size of the specified image on the specified machine.

User Response: Run `usr/lpp/ssp/install/bin/get_size` of the named file on the named machine to see the problem, then take the appropriate action.

0016-467 The size of the image *image name* on the *cws* and on node *node_number*, differs. Unable to proceed.

Explanation: The specified image has the same name on both the control workstation and the named machine, however, the sizes differ. Further, the resource is allocated and therefore can not be automatically updated.

User Response: Run `spbootins` to set the node to disk (which allocates the resource), and run `setup_server`.

0016-468 NIM master not created on node *node_number* because the `inurid -r` command has been executed; the node cannot be a SPOT server. Return code of *return_code*.

Explanation: The `inurid -r` command was executed and the machine cannot be used as a SPOT server or an `/usr SPOT` already exists.

User Response: The `inurid -r` command can not be run on the install machine or within the same image to be installed.

0016-469 NIM master not created on node *node_number* because either the `inurid -r` or the `dsh` command had a problem with the return code of *return_code*.

Explanation: The `inurid` or `dsh` command had a problem with other than `rc=1` or `rc=6`.

User Response: Check the return code and follow standard problem resolution procedures.

0016-470 Volume_Group object does not exist for node *node_number*.

Explanation: There is no data for this node in `Volume_Group`. Unable to build the `config_info` file.

User Response: Rebuild the `Volume_Group` class.

0016-471 Usage: `mkbosinst install_disk hostname node_number`.

Explanation: Not enough arguments passed to the `mkbos` program.

User Response: Read usage.

0016-472 `mkbosinst` problem attempting to read `config directory/bosinst_data.template` while building a custom `bosinst_data` file for *client hostname*.

Explanation: Could not read `bosinst_data.template` file.

User Response: Check read permissions for `bosinst_data.template` file.

0016-473 `mkbosinst` problem. could not open `BOS directory/client node number` for output while creating a custom `bosinst_data` file for *client hostname*.

Explanation: Could not write node number `bosinst_data.noprompt` file.

User Response: Check write permissions for the node number `bosinst_data.noprompt` file.

0016-474 `mkbosinst` problem attempting to read `config directory/bosinst_data_migrate.template` while building a custom `bosinst_data_migrate` file for *client hostname*.

Explanation: Could not read `bosinst_data_migrate.template` file.

User Response: Check read permissions for `bosinst_data_migrate.template` file.

0016-475 `mkbosinst` problem. could not open `BOS directory/client node number` for output while creating a custom `bosinst_data` file for *client hostname*.

Explanation: Could not write node number `bosinst_data_migrate.template` file.

User Response: Check write permissions for node number `bosinst_data_migrate.template` file.

0016-476 There is an error in the `start_frame`, `start_slot`, `node_count` values that were provided.

Explanation: There was an error in one or more of the values entered for the `start_frame`, or `start_slot`, `node_count`. Either a value was not in the correct range or it was non-numeric.

User Response: Check for correct values and retry the command.

0016-477 Critical files missing from lppsource.

Explanation: Installation cannot proceed because the **lppsource** directory was missing files that are required for AIX invocation.

User Response: Consult the log to determine the file names. Rebuild the **lppsource** directory. Rerun the **setup_server** command.

0016-478 Errors found while trying to change file modes.

Explanation: Installation cannot proceed because certain files or directories in the **/spdata** file system lack the necessary permissions. The directories must have **rwxr-sr-x** permission. All files in the **lppsource** subdirectory must have read-other permission. The **setup_server** command has tried to issue a **chmod** command to correct those files, but failed.

User Response: Consult the log to determine the file or directory names. Grant them the permissions using the **chmod** command. Rerun the **setup_server** command.

0016-479 An error occurred when trying to copy source filename to target filename.

Explanation: An error occurred copying one file to another.

User Response: Check the file and directory permissions, and the existence of related files and directories.

0016-480 An error occurred when attempting to uncomment the bootps line in /etc/inetd.conf.

Explanation: An error occurred when attempting to remove the comment character at the beginning of the line containing **bootps** in the **inetd.conf** file.

User Response: Check the permission of the **/etc/inetd.conf** file.

0016-481 An error occurred when attempting to uncomment the tftp line in /etc/inetd.conf.

Explanation: Unable to remove the comment character at the beginning of the line containing **tftp** in the **inetd.conf** file.

User Response: Check the permission of the **/etc/inetd.conf** file.

0016-482 An error occurred when attempting to refresh the inetd daemon.

Explanation: An error occurred when running the **refresh -s inetd** command.

User Response: Consult man page for the **refresh** command.

0016-483 Incorrect command syntax.

Explanation: The wrong syntax was used when calling the command.

User Response: Check command usage and try again.

0016-484 Internal call to *program name* was not successful; odmerrno=*return code*.

Explanation: The internally called command described in the message return a non-zero return code, or no output was returned to standard output.

User Response: Record the above information and contact the IBM Support Center.

0016-485 The required ODM object was not found.

Explanation: The command could not find an ODM object corresponding to the information provided on the command line.

User Response: Check the information entered on the command line and try again.

0016-487 The -m and -s options must be used together, or no at all.

Explanation: The syntax for this command is incorrect.

User Response: The **-m** and **-s** flags are used to initialize or change the values of the SP type model and serial number. To change either the machine type model or serial number, both flags must be specified. Use of these flags is not required if the SP type model and serial number are already set in the SP SDR class. You may query the SDR values by running the **splstdata -e** command.

0016-488 Error writing to the SDR. rc=*return code*.

Explanation: The call to the SDR to change the SP class values associated with the **-m** and **-s** flags failed.

User Response: Examine the return code from the SDR and look in the SDR log file to determine the cause of the failure.

0016-489 Vital Product Data is not available for node *node number*.

Explanation: The file `/var/adm/SPlogs/SPconfig/node number.umlc` did not contain the TM/SE pair.

User Response: The model type and serial number were not found in the SDR, and they were not found in the `umlc` file that was created on the node.

0016-490 The `SP_type_model` and `SP_serial_number` were not found in the SDR. Use the `-m` and `-s` options to enter this data.

Explanation: The `SP_type_model` and `SP_serial_number` of the control workstation is entered or corrected by using the `-m` and `-s` flags of the `get_vpd` command. These values are stored in the SDR. The `-m` and the `-s` flags were not used, and the information was not in the SDR.

User Response: Rerun the `get_vpd` command with the `-m` and `-s` flags, to enter the SP type model and serial number.

0016-491 The server node *node number* does not have a valid SPLAN adapter name in the SDR. Errors may have occurred during installation or customization of this node. Check the System Management firstboot configuration messages log.

Explanation: The boot/install server's SPLAN adapter name in the SDR is not in the correct format.

User Response: It is possible that errors occurred during the node's installation or customization. Check the System Management firstboot configuration messages log for errors.

0016-548 You must provide a password for this command to execute.

Explanation: You entered a null password for the DCE cell admin ID.

User Response: Enter the correct password for the DCE cell admin ID.

0016-600 Illegal command syntax.

Explanation: Incorrect syntax was used when invoking this command.

User Response: Check the syntax of the command and try again.

0016-601 An option was used that is no longer supported by this command. Use the `spchvgobj` command.

Explanation: Some of the `spbootins` command options were moved to the `spchvgobj` command.

User Response: For the options that were removed from the `spbootins` command, use the `spchvgobj` command.

0016-602 Illegal command operand.

Explanation: The command did not contain the correct number of operands.

User Response: Check the syntax of the command and try again.

0016-603 Either the `-c` or `-r` flag or both must be specified.

Explanation: The command requires either the `-c` flag or the `-r` flag.

User Response: Check the syntax of the command and try again.

0016-604 Invalid value for *flag value* flag.

Explanation: A flag value which is not valid was used on this command.

User Response: Check the syntax of the command and try again.

0016-605 Either the `-I` option or *frame/node/node_count* must be specified.

Explanation: The command was issued without specifying the nodes to which it should apply.

User Response: Check the syntax of the command and try again.

0016-606 Problem in reading the *object* object from the repository, exiting.

Explanation: The requested object information could not be obtained from the System Data Repository.

User Response: Determine why the SDR does not contain the requested information.

0016-607 Node number *node number* not valid, skipping to next node.

Explanation: The specified node number does not match any node number stored in the SDR. The command skips it and goes on to the next node.

User Response: Determine why the SDR does not contain information about the specified node.

0016-608 **Volume_Group name *volume group* not valid for node number *node number*, skipping to next node.**

Explanation: The specified volume group does not match any of the node volume group names stored in the SDR.

User Response: Determine why the specified volume group is not recognized as the current volume group in the SDR.

0016-609 ***attribute* attribute in Volume_Group object for node *node number*, volume group *volume group*, not valid, current volume group not changed. Skipping to next node.**

Explanation: The specified attribute was found to be not valid, so the specified volume group for the specified node was not changed. Processing continues with the next node.

User Response: Determine why the specified attribute is not valid.

0016-610 **Problem setting Volume_Group information into the Node object, skipping to next node.**

Explanation: The **SDRChangeAttrValues** command that was issued to change the volume group object had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-611 **Problem setting bootp_response in Node object for node *node number*, skipping to next node.**

Explanation: The **SDRChangeAttrValues** command that was issued to change the **bootp_response** had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-612 **Could not run the spbootlist command for node *node number***

Explanation: A problem occurred when attempting to run spbootlist command for the specified node.

User Response: Record the above information and contact the IBM Support Center.

0016-613 **The -r volume_group flag must be specified, exiting.**

Explanation: The command was issued without the -r flag.

User Response: Check the syntax of the command and try again.

0016-616 **The spbootlist command was not successful on node *node number*, return code = *return_code*.**

Explanation: The **spbootlist** command was not successful for this node.

User Response: Use the return code to diagnose this problem.

0016-617 **The bootlist command had a problem on node *node number* with a return code of *return_code*.**

Explanation: The bootlist command had a problem.

User Response: Use the return code to debug the problem.

0016-618 **Could not run command on node *node number***

Explanation: The command could not be run on the specified node.

User Response: Determine if the node is available and if the node number provided was valid.

0016-619 **An incorrect boot server was specified.**

Explanation: The specified boot server cannot be used for the given node.

User Response: Ensure that the specified boot server is valid and try again.

0016-621 **Copies must be 1, 2 or 3, exiting.**

Explanation: The -c flag requires that either 1, 2 or 3 be specified.

User Response: Check the command syntax and try again.

0016-622 ***flag name* must be true or false, exiting.**

Explanation: The -q flag must be specified with either true or false.

User Response: Check the command usage message for correct syntax and try again.

0016-623 **The install image *install image* does not exist on the control workstation, exiting.**

Explanation: The specified install image was not found.

User Response: Check the directory for the install image. If the problem persists, record the above

information and contact the IBM Support Center.

0016-624 **The lppsource directory *lppsource* directory does not exist on the control workstation, exiting.**

Explanation: The specified lppsource directory was not found.

User Response: Check the directory. If the problem persists, record the above information and contact the IBM Support Center.

0016-625 **Code version *code version* is not a valid PSSP identifier, exiting.**

Explanation: The specified code version is not valid.

User Response: Check for the correct code version and try again.

0016-626 **The -h flag specifies an invalid list of physical volumes, exiting.**

Explanation: The list of physical disks specified in the command was not valid.

User Response: Determine the correct physical disk names and command syntax, and try again.

0016-627 **A Volume_Group object for node number *node number*, *vg_name* volume group already exists, Volume_Group object not created; skipping to next node.**

Explanation: A volume group having the same name already exists for the specified node.

User Response: Check the volume group name for the specified node, and try the command again.

0016-628 **Node number *node number* cannot be a server for itself, Volume_Group object not created; skipping to next node.**

Explanation: A node was specified as a boot/install server for itself.

User Response: Determine correct physical disk names and correct command syntax, and try again.

0016-629 **Mismatch in PSSP level between boot/install server and client node *node number*; skipping to next node.**

Explanation: A client node can only be served by a boot/install server with a PSSP level equal to or greater than its own PSSP level.

User Response: Determine the correct boot/install server and PSSP levels and enter the command again.

0016-630 **Problem adding Volume_Group object *volume group* for node *node number* to the repository, no Volume_Group object added; skipping to next node.**

Explanation: The SDRCreateObjects command had a problem while attempting to create a new volume group.

User Response: Record the above information and contact the IBM Support Center.

0016-631 **A client node's PSSP code version cannot be set to a higher level than the control workstation's PSSP code version, (currently *PSSP code version*).**

Explanation: An attempt was made to set a node's PSSP code version to a higher level than that of the control workstation, which is not allowed.

User Response: Reissue the command with a valid PSSP code version.

0016-632 **The physical volume specification *physical volume specification* does not contain a valid syntax.**

Explanation: A physical volume specification in a list of physical volumes does not match a recognized syntax pattern. Valid values include one or more of the following examples:

```
Logical device names: hdisk0,hdisk1
Location codes: 00-00-00-0,0:00-00-00-0,1
SSA connwhere:
    ssar//0123456789ABCDE:ssar//0123456789ABCFD
Physical volume identifiers (PVIDs):
    0123456789ABCDEF:0123456789ABCFDE
Storage area network disk identifier (SAN_DISKID) using
world_wide_port_name//logical_unit_identifier:
    0x0123456789ABCDEF//0x20000000000000:
    0x9876543210FEDCBA//0x0
```

Multiple logical device names are separated by a comma "," and may not be combined with other specifications. All other specifications may be used in the same physical volume list with the physical volumes separated by a colon ":".

User Response: Reissue the command with a valid physical volume specification.

0016-634 **Nothing to change was specified, exiting.**

Explanation: No flags were specified on the command.

User Response: Check the command syntax and try again.

0016-635 **Volume_Group object for node *node number*, name *volume group* not found, object not changed; skipping to next node.**

Explanation: The specified volume group object was not found, and therefore it could not be changed.

User Response: Correct the name and try the command again.

0016-636 **Problem changing Volume_Group object *volume group* for node *node number* in the repository, Volume_Group object not changed; skipping to next node.**

Explanation: The **SDRChangeAttrValues** command had a problem while attempting to modify the Volume_Group object.

User Response: Record the above information and contact the IBM Support Center.

0016-637 **Problem in changing the selected_vg attribute of the Node object for node number *node number*, node not changed; skipping to next node.**

Explanation: The **SDRChangeAttrValues** command had a problem while attempting to modify the Node object.

User Response: Record the above information and contact the IBM Support Center.

0016-643 **The name of the Volume_Group object to be removed must be specified, exiting.**

Explanation: The volume group name was not specified.

User Response: Use the -r flag to specify the volume group name.

0016-644 **Volume_Group object for node number *node number*, volume group *volume group* not deleted because it is the current volume group, skipping to next node.**

Explanation: The volume group could not be deleted because it is designated as the current volume group.

User Response: To remove the volume group, first switch to an alternate volume group, then retry the **sprmvobj** command.

0016-645 **Problem deleting Volume_Group object for node number *node number*, volume group *volume group*, skipping to next node.**

Explanation: The **SDRDeleteObject** command had a problem when attempting to remove a volume group object.

User Response: Record the above information and contact the IBM Support Center.

0016-652 **spunmirror for node number *node number* had a problem with return code *return_code*. Check the log file */var/adm/SPlogs/sysman/unmirror.out* on that node for more information.**

Explanation: The **spunmirror** command had a problem.

User Response: Check the log file */var/adm/SPlogs/sysman/unmirror.out* on that node for more information why the **spunmirror** command had a problem.

0016-655 **The number of copies for node number *node number*, volume group *volume group*, must be 2 or 3 to start mirroring; skipping to next node.**

Explanation: The specified number of copies represents the total number of copies. For example, specifying two as the number of copies indicates the original plus one extra copy.

User Response: Determine the total number of copies desired and try the command again.

0016-656 **spmirror for node number *node number* had a problem with return code *return_code*. Check the log file */var/adm/SPlogs/sysman/mirror.out* on that node for more information.**

Explanation: The **spmirror** command had a problem.

User Response: Check the log file */var/adm/SPlogs/sysman/mirror.out* on that node for more information why the **spmirror** command had a problem.

0016-661 **Problem in reading the *partition name* object from the repository.**

Explanation: A call to **SDRGetObjects** had a problem with the specified return code.

User Response: Correct the **SDRGetObjects** problem and enter the command again.

0016-662 Could not update Syspar object nor custom file for partition *partition name*.

Explanation: A problem occurred which prevented the updating of a partition's Syspar object and custom file, if one exists.

User Response: A previous problem message was displayed, which indicates the cause of the problem.

0016-663 Problem setting PSSP level of Syspar object. (*rc=return_code*).

Explanation: A call to **SDRChangeAttrValues** had a problem with the specified return code.

User Response: Correct the **SDRChangeAttrValues** problem and rerun the command.

0016-664 The **splst_versions** command had a problem with a return code of *return_code*.

Explanation: The **splst_versions** command had a problem.

User Response: Use the command documentation and the problem return code to determine what caused the problem.

0016-665 Could not update the custom file for system partition *partition name*.

Explanation: The custom file associated with the specified partition could not be updated.

User Response: Previous problem messages were displayed, which indicate the cause of the problem.

0016-667 Unable to update *custom file name* custom file for partition *partition name* with the new PSSP level, *new PSSP level*. (*rc = return_code*).

Explanation: The **spcustomize_syspar** command had a problem with the specified return code.

User Response: Use the return code to analyze the problem.

0016-669 Could not update Syspar objects nor custom files.

Explanation: It was not possible to check whether or not the Syspar objects and custom files needed to be updated.

User Response: Check previous problem message for reason of problem.

0016-670 The **Islv** command for **hd2** had a problem, exiting.

Explanation: The **Islv** command had a problem when attempting to find the number of copies of **hd2**.

User Response: Record the above information and contact the IBM Support Center.

0016-671 The requested number of copies, *number of copies*, is already in effect, no mirroring will take place on the node.

Explanation: The requested number of copies is the same as the number currently in effect.

User Response: None.

0016-672 The requested number of copies, *requested copies*, is fewer than the number of copies already in effect, *existing copies*. No mirroring will take place on the node.

Explanation: Use this command only to increase the number of copies.

User Response: Determine how many total copies are required and retry the command.

0016-673 The **Ispv** command had a problem with a return code of *return_code*.

Explanation: The **Ispv** command had problem while attempting to get a listing of physical volumes.

User Response: Record the above information and contact the IBM Support Center.

0016-674 Volume group *volume group name* could not be extended because the physical volume *physical volume name* appears to be in use or does not exist.

Explanation: The specified physical volume cannot be used to extend the volume group.

User Response: Choose another physical volume and retry the command.

0016-675 Physical volume *physical volume name* is already part of volume group *volume group name*.

Explanation: This physical volume is already in use.

User Response: Choose another physical volume and retry the command.

0016-676 Volume group *volume group name* could not be extended by disk *physical volume name*, it appears to belong to another active volume group.

Explanation: A physical volume that belongs to another active volume group cannot be used to extend the specified volume group.

User Response: Choose another physical volume and retry the command.

0016-677 Volume group *volume group name* cannot be extended by disk *physical volume name*; *physical volume name* belongs to another volume group. Rerun `spmirrorvg` with the `-f` flag to force the physical volume to become part of the volume group.

Explanation: The specified physical disk already belongs to another volume group.

User Response: If the physical volume is no longer needed in the old volume group, rerun the `spmirrorvg` command with the `-f` flag.

0016-678 Extending the volume group *volume group name* by disk(s) *physical volume name* had a problem with a return code of *return_code*.

Explanation: The `extendvg` command had a problem with the specified return code.

User Response: Check the `/var/adm/SPlogs/sysman/mirror.out` file for help in debugging the problem.

0016-679 The `lsvg` command had a problem for volume group *volume group name* with a return code of *return_code*, exiting.

Explanation: The `lsvg` command had a problem with the specified return code.

User Response: Record the above information and contact the IBM Support Center.

0016-681 `mirrorvg` had a problem for volume group *volume group name* with a return code of *return_code*, exiting.

Explanation: The `mirrorvg` command had a problem.

User Response: Use the return code to analyze the `mirrorvg` problem.

0016-682 The `bosboot` command had a problem with a return code of *return_code*.

Explanation: The `bosboot` command had a problem.

User Response: Use the return code to analyze the `bosboot` problem.

0016-683 The `bootlist` command had a problem with a return code of *return_code*.

Explanation: The `bootlist` command had a problem.

User Response: Use the return code to analyze the `bootlist` problem.

0016-685 The requested number of copies, *requested copies*, is already in effect, no unmirroring will take place on the node.

Explanation: The requested number of copies already exists.

User Response: None.

0016-686 The number of requested copies, *requested copies*, is greater than the number of existing copies, no unmirroring will take place on the node.

Explanation: You cannot unmirror more copies than you have.

User Response: Check the number of copies that currently exists and determine correct input for the `spunmirrorvg` command.

0016-687 Reducing the volume group *volume group* by disk(s) *physical volume* had a problem with a return code of *return_code*.

Explanation: The `reducevg` command had a problem.

User Response: Use the return code to analyze the `reducevg` problem.

0016-688 Problem in creating Volume_Group object in SDR, existing

Explanation: An attempt to update the SDR was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-689 **Problem in running node_number, exiting.**

Explanation: The `node_number` command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-690 **This command must be run on the active control workstation, exiting.**

Explanation: If the node number is not zero, indicating the control workstation, then the command will not run.

User Response: Run the command on the active control workstation.

0016-691 **Problem in running lshacws, exiting.**

Explanation: The `lshacws` command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-692 **The disk *physical volume* could not be found in the ODM, skipping to next node.**

Explanation: The `odmget` command had a problem attempting to get information about the specified physical disk.

User Response: Record the above information and contact the IBM Support Center.

0016-693 **Problem in getting Node objects from SDR.**

Explanation: The `SDRGetObjects` command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-694 **Problem, start_frame, start_node, node_count format does not match number of nodes found in SDR.**

Explanation: The `start_frame`, `start_node`, `node_count` specified does not match the information stored in the SDR.

User Response: Correct the `start_frame`, `start_node`, `node_count` values and try again.

0016-695 **Illegal start_slot specified, exiting.**

Explanation: The specified start slot could not be found.

User Response: Ensure that the correct start slot is specified and retry the command.

0016-696 **Node list must be numeric.**

Explanation: A non-numeric node number was encountered.

User Response: Check the values used in the command and try again.

0016-697 **Node *node number* is not a member of the current partition.**

Explanation: The node list provided for the command contained a node that is not a member of the current partition.

User Response: Check the command syntax and ensure that the specified nodes are members of the current partition.

0016-698 **k4 is required but not configured existing.**

Explanation: One of the nodes has a PSSP level that requires K4 but K4 is not configured.

User Response: Check the nodes for PSSP level and set the correct authentication levels.

0016-699 **Problem in getting Node objects from SDR, existing.**

Explanation: An attempt to access the SDR was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-700 ***program name* should only be run on the control workstation.**

Explanation: This program must be run on the SP control workstation only.

User Response: Rerun the command on the control workstation.

0016-701 **Invalid parameter to the -e flag, *parameters*.**

Explanation: The values indicated were not valid parameters for the `-e` flag.

User Response: Correct the parameter and enter the command.

0016-702 **An SDR_config lock exists.**

Explanation: The program detected an existing SDR_config lock file.

User Response: Wait for the other SDR_config process to complete. If no other SDR_config processes are running, remove the lock file and enter the command.

0016-703 Problem while trying to archive the SDR.

Explanation: The program had a problem making the archive of the SDR.

User Response: Check the previous problem message from **SDRarchive**, correct the problem and enter the command.

0016-704 Problem while attempting to read SDR data.

Explanation: The program had a problem reading the SDR.

User Response: Follow problem resolution procedures for SDR problems.

0016-705 Problem while attempting to read Hardmon data.

Explanation: The program had a problem reading Hardmon (the SP hardware monitor).

User Response: Follow problem resolution procedures for Hardmon problems.

0016-706 Problem while attempting to read the file name file.

Explanation: The program had a problem reading the specified file.

User Response: Verify that the file is accessible and enter the command.

0016-707 Invalid node specification in file name, file line.

Explanation: The specified node is not valid.

User Response: Correct the node specification in the file. It should be either *node number* or *frame number, slot number*.

0016-708 Invalid switch node number in file name, file line.

Explanation: The specified switch node number is not valid.

User Response: Correct the switch node number in the file.

0016-709 Used switch node number in file name, file line.

Explanation: The specified switch node number is already in use.

User Response: Correct the switch node number in the file.

0016-710 Duplicate entry in file name, file line.

Explanation: The specified line is a duplicate.

User Response: Remove the duplicated line.

0016-711 Problem while attempting to create Switch object(s).

Explanation: The program had a problem creating one or more Switch objects.

User Response: Check previous problems and correct the problem.

0016-712 Problem while attempting to update Frame object(s).

Explanation: The program had a problem updating one or more Frame objects.

User Response: Check previous problem and correct the problem.

0016-713 Problem while attempting to update Syspar_map object(s).

Explanation: The program had a problem updating one or more Syspar_map objects.

User Response: Check previous problem and correct the problem.

0016-714 Problem while attempting to create Node object(s).

Explanation: The program had a problem creating one or more Node objects.

User Response: Check previous problem and correct the problem.

0016-715 Problem while attempting to create DependentNode object(s).

Explanation: The program had a problem creating one or more DependentNode objects.

User Response: Check previous problem and correct the problem.

0016-716 The current switch and frame configuration is not valid.

Explanation: The configuration of switches and frames is not a supported configuration.

User Response: Check *PSSP: Planning Guide, Volume 1* for valid configurations and reconfigure your system to conform to one of them.

0016-717 **The node in frame: *frame number* slot: *slot number* is in an invalid slot for the current configuration.**

Explanation: The node specified is not in a valid slot in the current configuration.

User Response: Check *PSSP: Planning Guide, Volume 1* for valid configurations and reconfigure your system to conform to one of them.

0016-718 **There is no switch node number defined for node number *node number*.**

Explanation: The program had a problem finding a switch node number for the specified node.

User Response: Verify that your configuration is correct. If so, verify that the *hardware_protocol* attribute of the Frame class is properly set for all frames.

0016-719 **There is no switch node number defined for dependent node number *node number*.**

Explanation: The program had a problem finding a switch node number for the specified node.

User Response: Verify that your configuration is correct. If so, verify that the *hardware_protocol* attribute of the Frame class is properly set for all frames.

0016-720 **Dependent node number *node_number* conflicts with an existing node.**

Explanation: The dependent node specified is configured using the same location as an existing node.

User Response: Reconfigure the dependent node to use an available location.

0016-721 **The above command had a problem with *rc=return_code*.**

Explanation: The specified command had a problem when it was issued.

User Response: Follow standard problem reporting procedures.

0016-722 **Problem while executing SDR command or commands.**

Explanation: The program had some problems while issuing SDR commands.

User Response: Check previous problems and correct the problem.

0016-723 **Caught a SIG *signal*, Cleaning up.**

Explanation: The program intercepted a signal and is exiting.

User Response: None

0016-724 ***program name* had some problems. SDR Archive filename is *file name*.**

Explanation: The program had some problems that were not fatal.

User Response: Correct the problems. Determine if it is easier to restore the specified archive or to correct the SDR manually and take appropriate action.

0016-725 ***program name* had irrecoverable problems.**

Explanation: The program had one or more irrecoverable problems.

User Response: No SDR changes were made. Correct the problems and enter the command.

0016-726 ***program name* was unable to obtain a lock.**

Explanation: The program had a problem obtaining a lock.

User Response: Wait for the other SDR_config process to complete. If no other SDR_config processes are running, remove the lock file and enter the command.

0016-727 ***program name* was unable to reset the subsystem *subsystem*, *rc=return_code*.**

Explanation: The program had a problem resetting the specified subsystem.

User Response: Follow standard problem resolution procedures for the given subsystem.

0016-728 **Unsupported switch (*switch name*) found in frame *frame number* slot *slot number*.**

Explanation: A switch type was detected that is not supported by the current release of PSSP.

User Response: Upgrade the switch hardware to a supported type.

0016-729 **Incorrect *attribute name* in filename for frame *frame number*, slot *slot number*.**

Explanation: The attribute specified has an incorrect value in the file.

User Response: Correct the file and rerun the command.

0016-730 **The hardware configuration of this system does not support more than one partition.**

Explanation: A hardware configuration that does not support system partitioning was detected.

User Response: Reconfigure the system to a single partition.

0016-731 **The /etc/plane.info file is missing an entry for frame *frame number* and slot *slot number*.**

Explanation: A required entry is missing from the /etc/plane.info file.

User Response: Make sure that all switches are listed in the file.

0016-732 **The proper number of switches for the current plane configuration were not found.**

Explanation: The number of switches found will not support the switch plane configuration specified.

User Response: Reconfigure the switch plane configuration to match the number of switches in the system or use the /etc/plane.info file to inform the system of missing switches.

0016-733 **The program completed unsuccessfully with a return code value of *return_code*.**

Explanation: The program had one or more fatal errors.

User Response: Observe the SDR log file at /var/adm/SPlogs/sdr/SDR_config.log. Address the errors in the log file and issue the **SDR_init** command again.

0016-734 **There are extraneous entries in the *syspar_map*.**

Explanation: Extraneous entries were discovered in the **syspar_map**.

User Response: This is probably caused by the addition of a switch to a system with SP-Attached servers that did not contain a switch previously. Verify that the switch node numbers assigned to the SP-Attached servers will still be valid and unused after the switch is added.

0016-735 **An unsuitable value of *number_switch_planes* attribute value was found in the SDR as the *number_switch_planes* attribute of the SP class.**

Explanation: The value displayed is not acceptable.

User Response: Use the **SDRChangeAttributeValues** command to put a suitable value for this attribute into the SDR.

0016-736 **The current user executing this command does not have write access to the SDR. The command is exiting.**

Explanation: Write access to the SDR is necessary to run this command.

User Response: Obtain write access to the SDR and issue the command again.

0016-737 **An improper call was made in *program name* to the internal subroutine *subroutine name*(*first argument*, *second argument*, *third argument*, *fourth argument*). *program name* is exiting.**

Explanation: The subroutine specified in the message was called incorrectly within the program specified in the message.

User Response: There is an error in the program listed above. Record the above information and contact the IBM Support Center.

0016-738 ***program name* did not complete. Irrecoverable errors were encountered. *program name* had a return code value of *return code*.**

Explanation: The program had one or more fatal errors.

User Response: Review the command's log file if one exists. Address the errors in the log file and reissue the command.

0016-739 **A switch was detected in frame *frame number* in a slot location between 1 and 16, inclusively. This switch is not in a valid location since frame *frame number* contains nodes.**

Explanation: The frame designated in the error message contains nodes. This frame is allowed to have a switch in slot 17, but a switch was detected in a slot other than 17. This is not a valid configuration.

User Response: Ensure that the wiring to the node and switch supervisor cards is correct. If you have a mixture of nodes and switches in slots 1 through 16 of a

single frame, reconfigure the frame to a valid configuration.

0016-740 A second switch was detected in frame *frame number*. Frame *frame number* may not contain a second switch since its first switch is in slot 17.

Explanation: The frame designated in the error message contains a switch in slot 17. Another switch may not exist in any slot of this frame.

User Response: Reconfigure the system to a valid configuration and issue the command again.

0016-742 The -u option is not permitted when switch type is 'SP Switch2'.

Explanation: The hardware configuration of the SP Switch2 makes it impossible to use the update (-u) option of the SDR_config command.

User Response: In an SP Switch2 environment, the assignment of switch node numbers is done automatically. There is no need to issue the SDR_config command in update mode.

0016-801 NIM_NAME not found in *NIM_info_file_name* file. Quitting.

Explanation: The NIM information file did not contain the *NIM_NAME* stanza.

User Response: Record the above information and contact the IBM Support Center.

0016-802 File *NIM_info_file_name* not found. Quitting.

Explanation: The NIM information file could not be located.

User Response: Record the above information and contact the IBM Support Center.

0016-803 File *NIM_info_file_name* contains invalid *stanza_name* entry. Quitting

Explanation: The value in the *NIM_NAME* stanza of the NIM information file is not valid.

User Response: Record the above information and contact the IBM Support Center.

0016-804 Was not successful to obtain NIM Cstate for node; *rc=return_code*. Quitting.

Explanation: The NIM cstate could not be obtained for the node.

User Response: Record the above information and contact the IBM Support Center.

0016-805 Node's NIM Cstate problem; *Cstate=node's_NIM_cstate*. Quitting.

Explanation: The NIM cstate for the node had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-806 Was not successful to obtain if1 for NIM client (*NIM_client_name*); *rc=return_code*. Quitting.

Explanation: The `nimclient` command had a problem obtaining information for the `if1` object.

User Response: Record the above information and contact the IBM Support Center.

0016-807 Was not successful to obtain matching interface on master; *rc=return_code*. Quitting.

Explanation: The program could not establish a matching interface between the node and its boot/install server (NIM master).

User Response: Record the above information and contact the IBM Support Center.

0016-808 Was not successful to resolve hostname: *NIM_master_hostname*; *rc=return_code*. Quitting.

Explanation: The program could not resolve the specified host name.

User Response: Record the above information and contact the IBM Support Center.

0016-809 Failed to obtain SPLAN adapter long hostname; *rc=return_code*. Quitting.

Explanation: The program could not obtain the SPLAN adapter hostname.

User Response: Record the above information and contact the IBM Support Center.

0016-810 Was not successful to update */etc/SDR_dest_info* file; *rc=return_code*. Quitting.

Explanation: The program could not update the `SDR_dest_info` file.

User Response: Use the return code and follow standard problem resolution procedures.

0016-811 Was not successful to obtain node number from ODM; *rc=return_code*. Quitting.

Explanation: The program cannot retrieve the node number from the ODM.

User Response: Use the return code and follow standard problem resolution procedures.

0016-812 Was not successful to access SDR; *rc=return_code*. Quitting.

Explanation: The program had a problem accessing the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-813 Node's *bootp_response* not set to customize. Quitting.

Explanation: The node's *bootp_response* is not set to **customize** in the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-814 Was not successful to obtain node's hardware ethernet address. Quitting.

Explanation: The program cannot obtain the node's hardware Ethernet address.

User Response: This message may be displayed because of a problem with the **lscfg** command. Record the above information and contact the IBM Support Center.

0016-815 Was not successful to find Node *node_number* information in SDR. Quitting.

Explanation: The program cannot find the Node object for the indicated node in the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-816 Did not install *filesset* because system software level check failed. Quitting.

Explanation: The program could not install the indicated file set because the combination of the PSSP version and the AIX version specified for installation is not supported

User Response: Record the above information and contact the IBM Support Center.

0016-817 Failed to find SPLAN adapter info for node *node_number* in SDR. Quitting.

Explanation: The program could not find the Adapter object for the indicated node in the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-818 Was not successful to get matching adapter of boot/install server. Quitting.

Explanation: The program cannot find a matching adapter between the node and the boot/install server (NIM master).

User Response: Record the above information and contact the IBM Support Center.

0016-819 Unable to obtain media and/or speed; *media = duplex_setting duplex and speed = ethernet_rate* for adapter type *adapter type*. Quitting.

Explanation: The program could not obtain either the duplex type or Ethernet rate or both from the SDR.

User Response: Enter missing values into the SDR using the **spadaptrs** command.

0016-820 Was not successful to resolve address *server_adapter_IP_address*; *rc=return_code*. Quitting.

Explanation: The indicated address (of the boot/install server's adapter) cannot be resolved.

User Response: Record the above information and contact the IBM Support Center.

0016-821 File *file_name* not found; quitting.

Explanation: The node's *install_info* file was not found.

User Response: Record the above information and contact the IBM Support Center.

0016-822 *file_name* does not contain all required attribute values. Quitting.

Explanation: The node's *config_info* file does not contain all of the required information.

User Response: Record the above information and contact the IBM Support Center.

0016-823 Was not successful to create add file for SP ODM object; *rc=return_code*. Quitting.

Explanation: The program cannot create the file to add the SP ODM object.

User Response: Record the above information and contact the IBM Support Center.

0016-824 Was not successful to add SP ODM object; rc=*return_code*. Quitting.

Explanation: The program cannot add the SP ODM object to the ODM.

User Response: Record the above information and contact the IBM Support Center.

0016-825 Was not successful to save /etc/SDR_dest_info file; rc=*return_code*. Continuing.

Explanation: The program cannot save the SDR_dest_info file.

User Response: Record the above information and contact the IBM Support Center.

0016-826 Was not successful to move in new /etc/SDR_dest_info file; rc=*return_code*. Continuing.

Explanation: The program cannot replace the SDR_dest_info file.

User Response: Record the above information and contact the IBM Support Center.

0016-827 Missing /tftpboot/SDR_dest_info file. Continuing.

Explanation: The indicated file is missing.

User Response: Record the above information and contact the IBM Support Center.

0016-828 Was not successful to tftp file. Continuing.

Explanation: The program had a problem with tftp copy a file (indicated in a previous informational message).

User Response: Processing continues. If this is a required file, processing will be terminated. Otherwise, processing continues.

0016-829 Failed to obtain the node number for this node. Quitting.

Explanation: The program is unable to obtain the node number for this node.

User Response: Record the above information and contact the IBM Support Center.

0016-830 Was not successful to find fbcheck entry in *inittab_file_name*; rc=*return_code*. Quitting.

Explanation: The program cannot find the fbcheck entry in the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-831 Was not successful to remove fbcheck entry from *\$etcinittab*; rc=*return_code*. Quitting.

Explanation: The program cannot remove the fbcheck entry from the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-832 Was not successful to add fbcheck entry to *inittab_file_name*; rc=*return_code*. Quitting.

Explanation: The program cannot add the fbcheck entry to the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-833 Was not successful to add fbcheck entry to *inittab_file_name*. Quitting.

Explanation: After adding the fbcheck entry to the *inittab* file, the program detected that the entry was not in the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-834 Was not successful to find cons entry in *inittab_file_name*; rc=*return_code*. Quitting.

Explanation: The program cannot find the cons entry in the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-835 Was not successful to remove cons entry from *inittab_file_name*; rc=*return_code*. Quitting.

Explanation: The program cannot remove the cons entry from the *inittab* file.

User Response: Record the above information and contact the IBM Support Center.

0016-836 Was not successful to add cons entry to *inittab_file_name*; *rc=return_code*. Quitting.

Explanation: The program cannot add the **cons** entry to the **inittab** file.

User Response: Record the above information and contact the IBM Support Center.

0016-837 Was not successful to add cons entry to *inittab_file_name*. Quitting.

Explanation: After adding the **cons** entry to the **inittab** file, the program detected that the entry was not in the **inittab** file.

User Response: Record the above information and contact the IBM Support Center.

0016-838 Was not successful to add spfbcheck entry to *inittab_file_name*; *rc=return_code*. Continuing.

Explanation: The program cannot add the **spfbcheck** entry to the **inittab** file.

User Response: Record the above information and contact the IBM Support Center.

0016-839 Was not successful to mount **lppsource**: *lppsource_directory* from **host**: *lppsource_hostname*; *rc=return_code*. Quitting.

Explanation: The program cannot mount the **lppsource** directory from the indicated host.

User Response: Record the above information and contact the IBM Support Center.

0016-840 Was not successful to install **BOS_LPP_name**; *rc=return_code*. Quitting.

Explanation: The attempt to install the BOS LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-841 Was not successful to get boot logical volume info; *rc=return_code*. Quitting.

Explanation: The program cannot obtain the boot logical volume information.

User Response: Record the above information and contact the IBM Support Center.

0016-842 Was not successful to derive bootdisk name; *rc=return_code*. Quitting.

Explanation: The program cannot derive the bootdisk name.

User Response: Record the above information and contact the IBM Support Center.

0016-843 Was not successful to devinstall; *rc=return_code*. Continuing.

Explanation: The **devinstall** command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-844 Was not successful to configure; *rc=return_code*. Continuing.

Explanation: The **cfgmgr** command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-845 Was not successful to link */dev/rbootdisk_file_name* to */dev/ipldevice*; *rc=return_code*. Continuing.

Explanation: The program cannot link the indicated file names.

User Response: Record the above information and contact the IBM Support Center.

0016-846 **bosboot -a -d /dev/ipldevice** had a problem; *rc=return_code*. Quitting.

Explanation: The **bosboot** command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-847 Was not successful to link */usr/lib/boot/unix_processor_type* to */usr/lib/boot/unix*; *rc=return_code*. Continuing.

Explanation: The program cannot link the indicated file names.

User Response: Record the above information and contact the IBM Support Center.

0016-848 Was not successful to install prerequisite **perfagent.server**; *rc=return_code*. Continuing.

Explanation: The attempt to install the **perfagent.server** LP gave the indicated return code.

User Response: Record the above information and

contact the IBM Support Center.

0016-849 Was not successful to install prerequisite `bos.rte.tty`; `rc=return_code`. Continuing.

Explanation: The attempt to install `bos.rte.tty` gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-850 Was not successful to install prerequisite `devices.sio.sa.diag`; `rc=return_code`. Continuing.

Explanation: The attempt to install the `devices.sio.sa.diag` LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-851 Was not successful to mount install image for `PSSP_code_version` from `NIM_master_hostname`; `rc=return_code`. Quitting.

Explanation: The program cannot mount the PSSP install image for the indicated code version from the indicated boot/install server.

User Response: Record the above information and contact the IBM Support Center.

0016-852 `installp_image_list` not found in install image! Quitting.

Explanation: The program did not find one or more of the indicated `installp` images.

User Response: Record the above information and contact the IBM Support Center.

0016-853 Was not successful to install `installp_image_list`; `rc=return_code`. Quitting.

Explanation: Installing the specified LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-854 Was not successful to install one or more of: `installp_image_list`; `rc=return_code`. Quitting.

Explanation: The program could not install one or more of the specified LPs.

User Response: Record the above information and contact the IBM Support Center.

0016-855 `post_process_command_name` had a problem; `rc=return_code`. Continuing.

Explanation: The indicated command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-856 `ssp.basic_post_install_command` had a problem; `rc=return_code`. Continuing.

Explanation: The indicated command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-857 Was not successful to update `/etc/SDR_dest_info` file; `rc=return_code`. Continuing.

Explanation: The program cannot update the `SDR_dest_info` file.

User Response: Record the above information and contact the IBM Support Center.

0016-858 Was not successful to install `installp_image_list`; `rc=return_code`. Continuing.

Explanation: Installing the LP contained within the `installp` images gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-859 Was not successful to install `ssp.sysctl`; `rc=return_code`. Continuing.

Explanation: The attempt to install the `ssp.sysctl` LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-860 `Sysctl_post_install_command` had a problem; `rc=return_code`. Continuing.

Explanation: The Sysctl post-installation command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-861 `Sysctl_configuration_command` had a problem; `rc=return_code`. Continuing.

Explanation: The Sysctl configuration command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-862 Was not successful to install **ssp.pman**; **rc=return_code**. **Continuing**.

Explanation: The attempt to install the **ssp.pman** LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-863 Was not successful to create **css ODM update file**; **rc=return_code**. **Continuing**.

Explanation: The program cannot create the **css ODM update file**.

User Response: Record the above information and contact the IBM Support Center.

0016-864 Was not successful to update **ODM entry for switch**; **rc=return_code**. **Continuing**.

Explanation: The program cannot update the **ODM** with the **switch** entry.

User Response: Record the above information and contact the IBM Support Center.

0016-865 Was not successful to install **ssp.css**; **rc=return_code**. **Continuing**.

Explanation: The attempt to install the **ssp.css** LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-866 *cfgmgr* command had a problem after install of **ssp.css**; **rc=return_code**. **Continuing**.

Explanation: The **cfgmgr** command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-867 *rc.switch* command had a problem after install of **ssp.css**; **rc=return_code**. **Continuing**.

Explanation: The indicated command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-868 Was not successful to install **ssp.st**; **rc=return_code**. **Continuing**.

Explanation: The attempt to install the **ssp.st** LP gave the indicated return code.

User Response: Record the above information and contact the IBM Support Center.

0016-869 Was not successful to delete **.rhosts** entry for **NIM** master; **rc=return_code**. **Continuing**.

Explanation: The program cannot delete the entry in the **.rhosts** file for this node's boot/install server.

User Response: Record the above information and contact the IBM Support Center. This may cause a security exposure. You should manually inspect the file to ensure that it contains only those entries that are necessary.

0016-870 Was not successful to create **dump logical volume**; **rc=return_code**. **Continuing**.

Explanation: The program cannot create a **dump logical volume**.

User Response: Record the above information and contact the IBM Support Center.

0016-871 Was not successful to change **dump device**; **rc=return_code**. **Continuing**.

Explanation: The program cannot change the **dump device**.

User Response: Record the above information and contact the IBM Support Center.

0016-872 **/tftpboot/psspfb_script** missing or empty!

Explanation: The indicated file was missing or empty.

User Response: Record the above information and contact the IBM Support Center.

0016-873 Was not successful to remove **/tftpboot/psspfb_script**; **rc=return_code**. **Quitting**.

Explanation: The program was not successful in removing the indicated file.

User Response: Record the above information and contact the IBM Support Center.

0016-874 Was not successful to tftp file *file_name* from *file_name*; **rc=return_code**.

Explanation: The program (subroutine) could not tftp copy the indicated file.

User Response: Processing continues. If this is a required file, processing will be terminated by the calling code. Otherwise, processing continues.

0016-875 **Problem during bosboot in expand_tmp routine; rc=return_code. Quitting.**

Explanation: The program encountered a problem of the **bosboot** command during an attempt to expand the **/tmp** file system.

User Response: Record the above information and contact the IBM Support Center.

0016-876 **Problem during df in expand_tmp routine; rc=return_code. Quitting.**

Explanation: The **df** command returned a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-877 **Problem attempting to increase /tmp in expand_tmp routine; rc=return_code. Quitting.**

Explanation: The program cannot expand the **/tmp** file system.

User Response: Record the above information and contact the IBM Support Center.

0016-878 **Failed to update SDR Adapter object; rc=return code. Continuing.**

Explanation: The program had a problem updating the SDR Adapter object.

User Response: Record the above information and contact the IBM Support Center.

0016-879 **File /etc/ssp/reliable_hostname not found. Quitting.**

Explanation: The indicated file name should exist, but does not.

User Response: Record the above information and contact the IBM Support Center.

0016-880 **/etc/ssp/reliable_hostname does not contain all required information. Quitting.**

Explanation: The indicated file does not contain all of the necessary information.

User Response: Record the above information and contact the IBM Support Center.

0016-881 **File /etc/ssp/server_name not found. Quitting.**

Explanation: The indicated file name should exist, but does not.

User Response: Record the above information and

contact the IBM Support Center.

0016-882 **File /etc/ssp/server_name does not contain all required information. Quitting.**

Explanation: The indicated file does not contain all of the necessary information.

User Response: Record the above information and contact the IBM Support Center.

0016-883 **File /tftpboot/node's_reliable_hostname.config_info not found. Quitting.**

Explanation: The indicated file name should exist, but does not.

User Response: Record the above information and contact the IBM Support Center.

0016-885 **Failed to obtain a device name for physical location code physical location code.**

Explanation: No device with the indicated physical location code was found.

User Response: Record the above information and contact the IBM Support Center.

0016-886 **Was not successful to get boot logical volume info; rc=return_code. Quitting.**

Explanation: The program cannot get the necessary boot logical volume information.

User Response: Record the above information and contact the IBM Support Center.

0016-887 **Was not successful to derive bootdisk name; rc=return_code. Quitting.**

Explanation: The program cannot derive the bootdisk name.

User Response: Record the above information and contact the IBM Support Center.

0016-888 **/tftpboot/node's_reliable_hostname.config_info does not contain all required attributes values. Quitting.**

Explanation: The indicated file does not contain all of the necessary information for a specific adapter.

User Response: Record the above information and contact the IBM Support Center.

0016-889 **Failure of *odmadd* command to update ODM entry for *device type*; *rc=return code*. Quitting.**

Explanation: The **odmadd** command had a problem updating the ODM for the specified device.

User Response: Record the above information and contact the IBM Support Center.

0016-890 **Problem of *mkdev* command to create *inet0*; *rc=return code*. Quitting.**

Explanation: The **mkdev** command had a problem creating *inet0*.

User Response: Record the above information and contact the IBM Support Center.

0016-891 **Problem of *chdev* command to update *inet0* hostname and route; *rc=return code*. Quitting**

Explanation: The **chdev** command had a problem updating *inet0*.

User Response: Record the above information and contact the IBM Support Center.

0016-892 **Problem of *cfgmgr* command; *rc=return code*. Continuing.**

Explanation: The **cfgmgr** command had a problem.

User Response: Record the above information and contact the IBM Support Center.

0016-893 **Was not successful to obtain *rcmd* ticket; *rc=return code*. Continuing.**

Explanation: The program cannot obtain an **rcmd** authentication ticket.

User Response: Record the above information and contact the IBM Support Center.

0016-894 **Was not successful to obtain *bootp_response* from SDR; *rc=return code*. Continuing.**

Explanation: The program cannot retrieve the **bootp_response** for the node from the SDR.

User Response: Record the above information and contact the IBM Support Center.

0016-895 **Was not successful to update SDR node object; *rc=return code*. Continuing.**

Explanation: The program failed to update the SDR Node object.

User Response: Record the above information and

contact the IBM Support Center.

0016-896 ***spauthconfig* had a problem; *rc=return code*. Continuing."**

Explanation: The called command had a problem updating the security environment.

User Response: Record the above information and contact the IBM Support Center.

0016-897 **Was not successful to obtain DCE credentials; *rc=return code*. Continuing."**

Explanation: The program had a problem obtaining necessary DCE credentials.

User Response: Record the above information and contact the IBM Support Center.

0016-898 ***/tftpboot/psspsfb_script* was not successful; *rc=return code*. Quitting.**

Explanation: The invocation of ***/tftpboot/psspsfb_script*** was not successful.

User Response: Record the above information and contact the IBM Support Center.

0016-899 **Installation of *perl.rte* was not successful. *rc=return code*. Continuing.**

Explanation: The attempt to install ***perl.rte*** resulted in the indicated return code.

User Response: Contact the IBM Support Center.

Chapter 3. 0018 - supper messages

0018-225 **Activate must be run with root authority.**

Explanation: The **activate** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-226 **Cannot locate an active volume group.**

Explanation: The activation of a volume group failed because the volume group was not found.

User Response: Verify that the volume group exists (using the **lsvg** command) or specify an existing volume group.

0018-227 **Cannot open file name: error code.**

Explanation: **supper** was not able to open the file due to the specified error code.

User Response: If the file is a log in **/var/ssp/logs**, make sure that the directory exists. Check permissions of the directory. If the problem persists, use the error code from the open as a starting point for problem determination.

0018-228 **Collection collection name is not available.**

Explanation: The specified collection is not a valid file collection for this system to install or update.

User Response: Use **supper status** and **supper where** to determine which file collections are available.

0018-229 **Collection collection name is not installed.**

Explanation: The update for the specified file collection failed because it has not been installed.

User Response: Correct the file collection name, or verify that it has been installed. If the problem persists, record the above information and contact the IBM Support Center.

0018-230 **File information for collection collection name is not available.**

Explanation: The file information comes from **/var/ssp/sup/file_collection/last**. Either this file collection is not installed, this file was removed, or this system is the system where the file collection originates.

User Response: Use **supper status** to see if the file collection has been installed.

0018-231 **Install must be run with root authority.**

Explanation: The **install** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-232 **Invalid supper command. Please reenter command or ? for command list.**

Explanation: You have entered a **supper** command that is not valid.

User Response: Enter **?** at the **supper** prompt to see the valid list of **supper** commands or check the **supper** syntax in *PSSP: Command and Technical Reference*.

0018-233 **Offline must be run with root authority.**

Explanation: The **offline** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-234 **Online must be run with root authority.**

Explanation: The **online** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-235 **Reset must be run with root authority.**

Explanation: The **reset** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-236 **Remove must be run with root authority.**

Explanation: The **remove** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-237 **Scan must be run with root authority.**

Explanation: The **scan** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-238 **Server for collection** *collection name* **is not available.**

Explanation: **supper** was not able to find a server for the specified file collection.

User Response: Verify that the **/etc/mastername** command prints the name of the file collection server. Issue **supper -s server name file collection** to request the appropriate server.

0018-239 **Unknown parameter:** *option*.

Explanation: The option specified is not a valid option.

User Response: Check the **supper** command syntax in *PSSP: Command and Technical Reference*.

0018-240 **Update must be run with root authority.**

Explanation: The **update** command cannot be run by a user other than **root**.

User Response: Log in as **root** and reissue the command.

0018-241 **Volume group must be activated before installing collections.**

Explanation: The specified file collection is contained in a file system. In order for the file system to be created, you must have an active volume group.

User Response: Use **supper disks** to see the volume groups that you have defined and the amount of free space associated with them. Use **supper activate volume group** to activate a volume group. Then reissue the **supper install** command.

0018-242 **Volume group** *volume group name* **does not exist.**

Explanation: The specified volume group could not be found.

User Response: Use **supper disks** to see the volume groups that you have defined and the amount of free space associated with them. Choose one of these volume groups for the **supper activate volume group name** command.

0018-243 **WARNING: Cannot delete file system** *file system name*.

Explanation: **/etc/rmfs** failed while attempting to remove the file system associated with this file collection. **supper** will continue to remove the master files associated with this file collection.

User Response: Use **smit** to determine why the file system was not removed.

0018-244 **WARNING: Server** *host server name* **is busy. Will retry in seconds seconds.**

Explanation: The SUP server for this file collection is busy serving other clients, or the **supfilesrv** process is not running on the server. If **supfilesrv** is not running on the server, a few warning messages will be followed by an error message.

User Response: Check if the server is overloaded. If this message is followed by error messages, check that **supfilesrv** is running on the server.

0018-245 **Process Terminated by SIG***signal*.

Explanation: A signal was received and the **supper** process was terminated.

User Response: Check the process that sent the signal to the **supper** process.

0018-246 **Collection** *collection name* **cannot be installed on this machine.**

Explanation: The specified file collection cannot be installed on this system because it is the wrong architecture.

User Response: Verify that the file collection has been defined in the **/var/sysman/file.collections** file and that the architecture has been defined as **power** . For an explanation of the fields of the **file.collections** entry, see the chapter on managing file collections in *PSSP: Administration Guide* .

0018-255 **Collection** *collection name* **cannot be installed.**

Explanation: **supper** was unable to install the specified file collection.

User Response: Check the other messages to see if there is an existing mount point or file system with this name.

0018-256 **Collection** *collection name* **cannot be removed.**

Explanation: **supper** was not able to find the file collection information for the specified file collection. The file collection may be defined as resident in **/var/ssp/sup/resident**, but the information in the master files is missing.

User Response: Remove the entry for this file collection from the **/var/ssp/sup/resident** file.

0018-257 **Collection** *collection name* **cannot be scanned.**

Explanation: **supper** was not able to find the file collection information for this file collection. The file collection may be defined as resident in

`/var/ssp/sup/resident`, but the information in the master files is missing.

User Response: Remove the entry for this file collection from the `/var/ssp/sup/resident` file.

0018-258 Update of collection *collection name* failed.

Explanation: `supper` could not install or update the file collection. This message is always followed with another message for further clarification.

User Response: Issue `supper rlog` to check for more information on the error.

0018-260 Cannot create the *file system name* file system.

Explanation: `/usr/sbin/crfs` failed while attempting to create the specified file system.

User Response: Check if enough free space is available in the currently active volume group. Check the `/var/sysman/file.collections` file, and see if the size of the file system is properly defined in this file. Not specifying a new file system for the corresponding file collection may resolve the problem. Refer to the chapter on managing file collections in *PSSP: Administration Guide* for an explanation of the fields of the `file.collections` file entry.

0018-261 Cannot create a logical volume for the *file system name* file system.

Explanation: `/usr/sbin/mkiv` failed while attempting to create a new logical volume in the currently active volume group for this file system.

User Response: Check that the size of the file system is properly defined in `/var/sysman/file.collections` file. Not specifying a new file system for the corresponding file collection may resolve the problem. Refer to the chapter on managing file collections in *PSSP: Administration Guide* for an explanation of the fields of the `file.collections` file entry.

0018-262 Cannot determine free disk space.

Explanation: `supper` was not able to determine the amount of free disk space.

User Response: Check the file system name and `file.collections` file entry for the corresponding file collection to see if it is properly defined.

0018-263 Cannot erase directory.

Explanation: `supper` was not able to rename the current file collection file system directory `dir` to `dir.DELETEME` for cleanup at a later time.

User Response: Check the file system directory to

see if it exists and is accessible.

0018-264 Cannot make mount point for the *file system name* file system.

Explanation: `supper` could not create the mount point for the specified file system.

User Response: Check to see if there is already a mount point with this name.

0018-265 Cannot mount the *file system name* file system.

Explanation: `/usr/sbin/mount` failed for the specified file system. As part of the file collection installation, the file system was added to `/etc/exports` and exported.

User Response: Check `/etc/exports` for the proper permissions and definition.

0018-266 Cannot unmount the *file system name* file system.

Explanation: `/usr/sbin/unmount` failed for the specified file system. It cannot be removed because it was not mounted.

User Response: Mount the specified file system and reissue the `supper` command.

0018-267 Collection locked.

Explanation: There is an update process already running for the file collection. `supper` attempts to lock each file collection.

User Response: The file collection is currently locked by another `supper` update session. Wait a while and retry the update.

0018-268 Collection offline.

Explanation: An attempt was made to update or install a file collection that was marked offline.

User Response: Mark the file collection online, and retry the operation.

0018-269 Connection failed.

Explanation: The connection to the SUP server failed. This usually indicates that the SUP file server daemon `supfilesrv` was not running on the server. The SUP file server may die if there are network problems.

User Response: Run the `supper where` command to find the file collection server. Check to see if the server is accessible. If so, login to the server and see if the `supfilesrv` process is running. If not, restart the `supfilesrv` process.

0018-270 Error in supfile.

Explanation: **supper** was unable to generate the **supfile** necessary for updating this collection. This may happen when the **/tmp** file system is full.

User Response: Check if **/tmp** is full. If so, make some free space in **/tmp** and retry the command.

0018-271 Insufficient disk space.

Explanation: The targeted file system ran out of space during the update.

User Response: Check if the targeted file system has available disk space. Increase the file system size, if possible, and retry the command.

0018-272 Insufficient disk space in the *file system name* file system.

Explanation: The specified file system ran out of space during the update.

User Response: Check if the specified file system has available disk space. Increase the file system size, if possible, and retry the command.

0018-273 Insufficient disk space in the *volume group name* volume group.

Explanation: There is not enough space for the specified file system in the specified volume group.

User Response: Increase the amount of space in this volume group or select another volume group that has enough space using **supper disks** and **supper activate vg**.

0018-274 Local collection.

Explanation: The repository for this file collection is defined to be on the same machine. So the file collection is skipped and the update not performed.

User Response: None.

0018-275 Lock file error.

Explanation: **supper** was unable to create the file collection lock file. This error can occur if the file system containing the **supper** files (**/var**) is full.

User Response: Check if the **/var** file system is full. Make more free space, if required, and retry the **supper update**.

0018-276 Login failed.

Explanation: The SUP client was unable to successfully login to the SUP server machine.

User Response: Check if the username **supman** is defined in the server and its **/etc/security/passwd** entry

shows ***** as the password. If not, running **/usr/lpp/ssp/install/bin/service_config** may resolve the problem.

0018-277 Collection data not available.

Explanation: **supper** could not find the collection information for this file collection. This can occur if a machine has a resident file collection that is no longer valid.

User Response: Check if the **/var/sysman/file.collections** file properly defines this file collection. For an explanation of the fields of the **file.collections** file entry, see the chapter on managing file collections in *PSSP: Administration Guide*

0018-278 Server not available.

Explanation: **supper** was unable to locate a server for this file collection.

User Response: Use the **supper where** command to simulate the server location process. Run the **/etc/mastername** command and check if it prints the server name.

0018-279 Permission Denied.

Explanation: The client machine does not have permission to install this file collection. The host file in the server **/var/sysman/sup/file_collection/host** may exist and does not include the client hostname. If the host file does not exist, all hosts are allowed to perform the installation.

User Response: Add a line to **/var/sysman/sup/file_collection/host** to include the client hostname, or delete the file.

0018-280 Prefix file error.

Explanation: **supper** created the file collection directory **/var/ssp/sup/file_collection** and attempted to create the **prefix** file **/var/ssp/sup/file_collection/prefix**.

User Response: Check to see if the new directory exists for this file collection with the permissions set to 755.

0018-281 Primary collection does not exist.

Explanation: The **scan** failed for a secondary file collection because its primary file collection does not exist.

User Response: Set up the primary file collection and retry scan operation. Refer to the chapter on managing file collection in *PSSP: Administration Guide* for more details.

0018-282 Primary collection *collection name* is not resident.

Explanation: The **scan** failed for a secondary file collection because its primary file collection is not resident.

User Response: Do not attempt to scan a secondary file collection whose primary file collection is not resident.

0018-283 Refuse list error.

Explanation: **supper** created the file collection directory `/var/ssp/sup/file_collection` and attempted to create the **refuse** file `/var/ssp/sup/file_collection/refuse`.

User Response: Check to see if the new directory exists for this file collection with the permissions set to 755.

0018-284 Server error.

Explanation: The connection to the SUP server was broken while transferring files.

User Response: Check to see if the server is up and running. Wait a while and retry the command.

0018-285 Supfile not found.

Explanation: The SUP program was not able to open the temporary supfile created on the `/tmp` directory.

User Response: If the `/tmp` file system is full, make some free space and retry the command. If the problem persists, record the above information and contact the IBM Support Center.

0018-286 Supfile Error.

Explanation: **supper** was unable to generate the **supfile** necessary for updating this collection. This generally occurs when the `/tmp` file system is full.

User Response: If the `/tmp` file system is full, make some free space and retry the command. If the problem persists, record the above information and contact the IBM Support Center.

0018-287 Server busy.

Explanation: A connection was refused by the SUP server. This message indicates that either the **supfilesrv** server process is not running in the server, or it is busy serving the maximum number of clients.

This limit is currently set to 48. This error message is usually preceded by messages indicating that **supper** was unable to connect but will retry. The retry period lasts approximately two minutes, after which the update is terminated.

User Response: Check if the server is up and **supfilesrv** process is running there. Restart **supfilesrv** if required, and retry the command. If the problem persists, record the above information and contact the IBM Support Center.

0018-288 Collection is not resident.

Explanation: **supper** was attempting to scan a primary file collection that is not resident. **supper** verifies if a file is resident by looking in the `/var/sysman/sup/.resident` file.

User Response: To make the file collection resident, issue **supper install *file_collection***, where *file_collection* is the primary file collection in question.

0018-289 An error occurred while trying to update the file */var/sysman/file.collections*. You need to update the */var/sysman/file.collections* file with the required file collection lines from the updated file */usr/lpp/ssp/filec/file.collections*.

Explanation: `/usr/lpp/ssp/install/bin/filec_config` found that the `/usr/lpp/ssp/filec/file.collections` file has been updated and encountered an error while trying to update the `/var/sysman/file.collections` file.

User Response: Update the `/var/sysman/file.collections` file with the required file collections lines from the `/usr/lpp/ssp/filec/file.collections` file.

0018-290 The System Data Repository cannot be accessed. The return code was *return code*.

Explanation: The SDR could not be accessed.

User Response: Verify that the SDR is up and running and issue the `filec_host` command from the command line.

0018-291 You must be root to run this command.

Explanation: The invoker must be running as **root**.

User Response: Verify you are logged in as the AIX **root** id.

0018-292 Cannot obtain node number. Return code *return code*.

Explanation: The command `node_number` was not found or returned an error.

User Response: Verify that this script is running on an SP host (Control Workstation or Node). Verify that the `node_number` command is located in `/usr/lpp/ssp/bin`.

0018-293 The `/var/sysman/collection.host.list` file cannot be accessed. Verify the existence of this file and rerun the `filec_host` command.

Explanation: The `collection.host.list` file cannot be found. This file contains the names of the IBM shipped collections.

User Response: Verify that the `/var/sysman/collection.host.list` file exists. If it does not exist, create it. Consult the entry for the `filec_host` command in *PSSP: Command and Technical Reference* for the file format.

0018-294 The `/var/sysman/sup/collection directory/filename` file cannot be accessed.

Explanation: The temporary host file cannot be created.

User Response: Check the `/var/sysman/sup/` directory for adequate free space.

0018-295 The `filename` file cannot be *function* (one of copied/moved).

Explanation: The file could not be copied or moved.

User Response: Verify that there is enough free space in the `/var/sysman/sup/` directory.

0018-296 An error occurred while trying to update the file `/var/sysman/collection.host.list`. You need to update the `/var/sysman/collection.host.list` file with the required file collection lines from the updated file `/usr/lpp/ssp/filec/collection.host.list`.

Explanation: The `/usr/lpp/ssp/install/bin/filec_config` command found that the file `/usr/lpp/ssp/filec/collection.host.list` has been updated and encountered an error while trying to update the file `/var/sysman/collection.host.list`.

User Response: You need to update `/var/sysman/collections.host.list` with the required file collections lines from the file, `/usr/lpp/ssp/filec/collection.host.list`.

0018-594 The `cllsif` command failed with a return code of *return code*.

Explanation: An error was encountered when running `/usr/sbin/cluster/utilities/cllsif`.

User Response: There should be other error messages generated. Investigate those error messages, correct any problems, and issue the command again.

Chapter 4. 0019 - Login control messages

0019-001 User, *username* is not valid. User may not have an account on this system. **spacs_cntrl** continuing to process valid users, if any.

Explanation: The user id name could not be found on the node where **spacs_cntrl** was invoked.

User Response: Verify that the user has a valid account on the node.

0019-002 Cannot open file *file name*.

Explanation: The file may not exist or the permissions may not be correct.

User Response: Verify that the file exists and has the permissions set to `-rwx-----`.

0019-003 Cannot obtain lock for file *file name*.

Explanation: The file may be in use by another instance of **spacs_cntrl**.

User Response: If the Resource Manager is running and has been allowed to use login control, stop the Resource Manager and issue the command again. If the Resource Manager is not running or has not been allowed to use login control, then check the `/var/spacs` directory for files with `.lck` appended. If the Resource Manager is not running or has not been allowed to use login control, erase this file and reissue the command.

0019-004 Cannot open file *file name* for read access.

Explanation: The file may not have read permission or may not exist.

User Response: Verify that the file exists with permissions set to `-rw-----`.

0019-005 Error updating file *file name*.

Explanation: An error occurred updating the specified file.

User Response: Ensure that the file exists and is writable for the proper user/group. Then try rerunning the program that gave the error.

0019-006 Cannot open file *file name* for write access.

Explanation: The file may not have read permission or may not exist.

User Response: Verify that the file exists with permissions set to `-rw-----`.

0019-007 Cannot access *file name* or another major error occurred. Error value *error value*. Contact your System Administrator.

Explanation: The failure could be one of four problems: no access, invalid argument, invalid pointer, or invalid attribute.

User Response: Check the file permissions on `/etc/security/user`. Check the attributes and values in `/etc/security/user` for validity. Otherwise gather information about the problem and follow local site procedures for reporting hardware and software problems.

0019-008 Cannot open log file, *file name*. Messages will not be logged.

Explanation: The file may not exist or the permissions may not be correct.

User Response: Verify that the file exists and has the correct permissions.

0019-009 Cannot access *file name*. File does not exist or does not have read permissions.

Explanation: The file may not exist or the permissions may not be correct.

User Response: Verify that the file exists and has the correct permissions.

0019-010 Flag: *flag* is not valid. Valid flags are: `l,d,v,s,n` and `f`.

Explanation: An invalid flag was used on the command line.

User Response: Reissue command with correct flags.

0019-011 Keyword: *keyword* is not valid. Valid keywords are `allow`, `deny`, `block` and `unblock`.

Explanation: An invalid keyword was used on the command line.

User Response: Reissue the command with a correct keyword.

0019-012 At least one user id name is required.

Explanation: A user id name was not listed on the command line or in the file used with the `-f` flag.

User Response: Reissue the command with at least one user id name.

0019-013 Cannot unlock file *file name*.

Explanation: There is a *file name.lock* file in */var/spacs* that cannot be unlocked or does not exist.

User Response: Ensure that the file exists. If the file does not exist, use the **-d** and **-I** flags to try to re-create the problem. The file should be re-created, locked, and unlocked without errors. If errors occur, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0019-014 System file */etc/security/user* does not exist or does not have read/write permissions.

Explanation: The system file does not exist or have read/write permissions for **root**.

User Response: Check that the */etc/security/user* file exists and has the correct permissions.

0019-015 Cannot open user database. Check permissions on the */etc/security/user* file.

Explanation: The program could not access the user information.

User Response: Check permissions on the */etc/security/user* file.

0019-016 Cannot update user database. *User, Attribute, Value, Action, Error*

Explanation: The program could not write the attribute or commit the attribute to the user database.

User Response: Check the permissions on the */etc/security/user* file.

0019-017 You must be root to run this command.

Explanation: A user other than **root** attempted to run **spacs_cntrl**.

User Response: Only root has permissions to run this command.

0019-018 Removing user root from input list of users.

Explanation: The **root** user is never denied access.

User Response: None.

0019-019 Cannot create directory *directory name*.

Explanation: The directory could not be created.

User Response: Check the AIX **mkdir** command. If necessary, create the directory by hand.

0019-020 Cannot resolve netgroups. NIS is not running. Continuing with valid users if any.

Explanation: NIS is not running on the system.

User Response: Start or restart NIS on the proper node.

0019-021 Netgroup name: *netgroup name* is not valid. Continuing with valid non-netgroup users if any.

Explanation: The netgroup name given or the netgroup name embedded in another netgroup was invalid according to the **ypmatch** command.

User Response: Reissue the **spacs_cntrl** command with the proper netgroup name or update the embedded netgroup before running **spacs_cntrl** again.

0019-022 No entries found in the netgroup for users. Continuing with valid users if any.

Explanation: The netgroup specified or any embedded netgroups did not have entries for users.

User Response: Rerun **spacs_cntrl** with the proper netgroup name.

0019-023 System Error. Type used for netgroups not valid.

Explanation: An internal error occurred.

User Response: Gather information about the problem and follow local site procedures for reporting problems.

Chapter 5. 0020 - Accounting messages

0020-001 Cannot open file *file name*.

Explanation: File may not exist or the permissions may not be correct.

User Response: Verify the file exists and has the permissions -rw-rw-r--.

0020-002 Cannot write to *file name*.

Explanation: An error was encountered while attempting to write to the file. There may not have been free space remaining on the device containing the file.

User Response: Verify that there is space left on the device by issuing the **df** command

0020-003 Cannot read *file name*.

Explanation: An error was encountered while attempting to read the file.

User Response: Verify the file exists and has permissions set to -rw-rw-r--.

0020-004 The */var/adm/acct/nite/jobrecs* file contains records that are not start or end job records.

Explanation: The */var/adm/acct/nite/jobrecs* file was discovered to contain an accounting record with a command name that was not **SJSJSJSJ** or **EJEJEJEJ**.

User Response: Verify the contents of the */var/adm/acct/nite/jobrecs* file.

0020-005 Cannot Truncate *file name*.

Explanation: Could not open the file for writing.

User Response: Verify the file has permissions set to -rw-rw-r--

0020-006 2 CRONS or Accounting Problems.

Explanation: More than one instance of the program attempted to execute at the same time.

User Response: Verify that the program appears in only one **crontab** file, if the program is executed out of **cron**.

0020-007 ERROR: locks found, run terminated.

Explanation: The lock file, which ensures that only one instance of the program runs at a time, was found to already exist.

User Response: Verify that multiple instances of the

program were not being executed at once (via **cron**, for instance) and then issue:

```
rm -f /var/adm/acct/nite/lock* if the problem was with runacct
```

```
rm -f /var/adm/cacct/lock* if the problem was with crunacct.
```

0020-008 Insufficient space on *filesystem (number of blks)*; Terminating procedure.

Explanation: The device holding the file system in which accounting was to be run was found to contain insufficient space for accounting to complete.

User Response: Make room on the device and then rerun accounting. If you are attempting to rerun accounting in the same day, you must edit the *lastdate* file to contain the previous day's date in the form **YYYYMMDD**.

0020-009 ERROR: acctg already run for *date*: check *file name*.

Explanation: The *lastdate* file indicates accounting was already run on the specified date.

User Response: Verify that accounting has not yet completed for the date indicated.

Examine the contents of */var/adm/cacct/statefile* (for **crunacct**) or */var/adm/acct/nite/statefile* (for **nrunacct**). Should the **statefile** contain something other than **COMPLETE**, examine the active file for the date. Correct any errors, edit the *lastdate* file to contain the previous day's date in the form **YYYYMMDD**, and rerun the program at the appropriate step.

0020-010 ERROR: called with arguments that are not valid.

Explanation: The wrong number of arguments was passed to the specified command.

User Response: Rerun the command with the correct number of arguments.

0020-011 ERROR: turnacct switch returned *return code*.

Explanation: An error was encountered when attempting to switch **pacct** files.

User Response: Examine the */var/adm/acct/nite/accterr* file for messages issued by the **turnacct** command.

0020-012 **ERROR: *file name* already exists. File setups probably already run.**

Explanation: When the SETUP step of **nrunacct** attempted to rename the **pacct** files, it was discovered that the renaming had already been done.

User Response: Verify that all portions of the SETUP step have completed, and restart **nrunacct** at the **WTMPFIX** step.

0020-013 ***file name* already exists: run setup manually.**

Explanation: In the **SETUP** step of **nrunacct** it was discovered that a **wtmp.YYYYMMDD** file already existed for the date being processed.

User Response: Ensure that all portions of **SETUP** have been executed manually for the date being processed and rerun **nrunacct** at the **WTMPFIX** step.

0020-014 **ERROR: wtmpfix errors. See *file name*.**

Explanation: An error was encountered running the **wtmpfix** command against the **wtmp** file, to make corrections to the accounting records.

User Response: Examine the **/var/adm/acct/nite/wtmperrorYYYYMMDD** file and correct the specified **wtmp** file problems.

0020-015 **WARNING: Accounting already run for *file name*. Remove *file name*string to rerun.**

Explanation: The **PROCESS** accounting step was already run for this date.

User Response: Remove the specified files to rerun the **PROCESS** step for this date.

0020-016 **An error occurred while executing the acctmerge program. pacct files will be restored in order to prevent the loss of accounting data and all intermediate lock files will be removed.**

Explanation: An error was encountered in the **acctmerge** program, when the **pacct** files were being merged in the **MERGE** step of **nrunacct**.

User Response: Examine the **/var/adm/acct/nite/accterr** file for error messages generated by **acctmerge**.

0020-017 **ERROR: state is not valid, check state**

Explanation: An attempt was made to begin **nrunacct** processing at an unrecognized state. The valid states are: **SETUP**, **WTMPFIX**, **CONNECT1**, **CONNECT2**, **PROCESS**, **MERGE**, **FEES**, **DISK**, **QUEUEACCT**, **CMS**, **USEREXIT** and **CLEANUP**.

User Response: Rerun **nrunacct** and specify a valid state.

0020-018 **A valid seconds per charge fee unit was not found in */var/adm/acct/nite/jobcharge*.**

Explanation: The **jobcharge** value for exclusive use of the node (as placed in the **/var/adm/acct/nite/jobcharge** file from the **acct_job_charge** attribute of the SDR Node Object for this node) was not found or was not a floating point number.

User Response: Verify that the **/var/adm/acct/nite/jobcharge** file exists and contains a floating point number. Verify that the file contains the value of the **acct_job_charge** attribute of the Node Object for this node.

Update the value of the **acct_job_charge** attribute, if it contains an invalid value.

0020-019 **The previous run of crunacct was not successful. See *file name* and the *file name* file for the previous run for more information.**

Explanation: The **/var/adm/cacct/statefile** indicates the previous run of **crunacct** failed.

User Response: Examine the **/var/adm/cacct/active** file for the previous run to determine why it failed. Rerun **crunacct** with the **-r** option after correcting the problem.

0020-020 **crunacct [-r [*state*]].**

Explanation: The **crunacct** command was invoked incorrectly.

User Response: Examine the usage message and invoke **crunacct** again.

0020-021 **crunacct can only be run on the accounting master node.**

Explanation: An attempt was made to execute the **crunacct** command on a node other than the accounting master (as defined by the **acct_master** attribute of the SP System Data Repository object).

User Response: Rerun the **crunacct** command on the accounting master.

0020-022 **Attempt to begin processing at an incorrect state.**

Explanation: An attempt was made to begin **crunacct** processing at an unrecognized state. The valid states are **SETUP**, **DELNODEDATA**, **MERGETACCT**, **CMS**, **USEREXIT** and **CLEANUP**.

User Response: Rerun **crunacct** and specify a valid state.

0020-023 **0020-023 Usage: cprdaily [-l] [yyyymmdd] [-c].**

Explanation: The **cprdaily** command was invoked incorrectly.

User Response: Examine the usage message and invoke **cprdaily** again.

0020-024 **Cannot print command exception reports except for *date*.**

Explanation: An attempt was made to print a command exception report for a day other than the current date.

User Response: Issue **cprdaily -c** to produce a command exception report for the current date.

0020-025 **Could not communicate with node *number*.**

Explanation: The **crunacct** command could not communicate with the specified node to access its accounting data.

User Response: The account master could not connect to the node because the node was not available during the processing of the **crunacct** command. Make sure the node is available for the next processing of the **crunacct** command.

0020-026 **There is not a statefile for node *node number* for this cycle.**

Explanation: A **/var/adm/acct/nite/statefile** was not found on the specified node for the accounting cycle being processed.

User Response: Verify that **nrunacct** was executed for the cycle on the specified node. Verify that accounting is enabled for that node, and that the cycle is a date for which you expect accounting to have been run.

0020-027 **The statefile for node *number* for this cycle does not say COMPLETE.**

Explanation: A **/var/adm/acct/nite/statefile** was found on the specified node for the accounting cycle being processed. It indicates that the **nrunacct** script has not successfully completed processing.

User Response: Examine the **/var/adm/acct/nite/statefile** and **/var/adm/acct/nite/active** file on the specified node, for the accounting cycle being processed. Correct any errors and rerun the **nrunacct** script on the node.

0020-028 **The statefile for node *number* for *date* does not say COMPLETE**

Explanation: A **/var/adm/acct/nite/statefile** was found on the specified node for the specified date. It indicates that the **nrunacct** script has not successfully completed processing.

User Response: Examine the **/var/adm/acct/nite/statefile** and **/var/adm/acct/nite/active** file on the specified node, for the specified date. Correct any errors and rerun the **nrunacct** script on the node.

0020-029 **Node threshold is set to *number* percent. Terminating processing for this cycle.**

Explanation: The percent of nodes for which accounting data was available was less than the active node threshold (as specified by the **spacct_actnode_thresh** attribute of the SDR SP object).

User Response: Review the **/var/adm/cacct/active** file for the day being processed for information on why data was not available from nodes. Correct any problems. If desired, lower the active node threshold.

0020-030 **The System Data Repository cannot be accessed.**

Explanation: An error was encountered, when attempting to access the System Data Repository.

User Response: Verify that the SDR is accessible and rerun the program.

0020-031 **The **/var/adm/cacct/fiscal_periods** file has incorrect entries. Should contain a series of lines consisting of only fiscal period begin dates in the form MMDD.**

Explanation: The **/var/adm/cacct/fiscal_periods** file was found to contain entries that were not of the form MMDD.

User Response: Verify that all lines in the **/var/adm/cacct/fiscal_periods** file are of the form MMDD, where MMDD is the month and day of the start of a fiscal period.

0020-032 **An error occurred while executing the **cp** program at state SETUP. Probably insufficient space is detected.**

Explanation: While the nightly accounting script, **crunacct**, was in the setup phase, it attempted to issue the AIX **cp** command. This command was not successful.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the

cause of the **cp** command not succeeding. Restart crunacct from the beginning (because SETUP, which is the first state, didn't even complete) by issuing **crunacct**.

0020-033 An error occurred while executing the cp program at state MERGETACCT.

Explanation: While the nightly accounting script, crunacct, was in the MERGETACCT phase, it attempted to issue the AIX **cp** command. This command did not succeed.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the cause of the **cp** command not succeeding. Restart crunacct from the MERGETACCT state by issuing **crunacct -r MERGETACCT**.

0020-034 An error occurred while executing the acctmerg program at state MERGETACCT. Probably Insufficient space is detected.

Explanation: While the nightly accounting script, crunacct, was in the MERGETACCT phase, it attempted to execute the AIX **acctmerg** program. This program did not succeed.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the cause of the error. Restart crunacct from the MERGETACCT state by issuing **crunacct -r MERGETACCT**.

0020-035 An error occurred while executing the cp program at state CMS. Probably insufficient space is detected.

Explanation: While the nightly accounting script, crunacct, was in the CMS phase, it attempted to execute the AIX **cp** command. This command did not succeed.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the cause of the error. Restart crunacct from the CMS state by issuing **crunacct -r CMS**.

0020-036 An error occurred while executing the acct program at state CMS. Probably insufficient space is detected.

Explanation: While the nightly accounting script, crunacct, was in the CMS phase, it attempted to execute the AIX **acct** program. This program did not succeed.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the cause of the error. Restart crunacct from the CMS state by issuing **crunacct -r CMS**.

0020-037 An error occurred while executing the acctcms program at state CMS. Probably insufficient space is detected.

Explanation: While the nightly accounting script, crunacct, was in the CMS phase, it attempted to execute the AIX **acctcms** program. This program did not succeed.

User Response: Issue the **df** command to determine if any file systems are full, which was most likely the cause of the error. Restart crunacct from the CMS state by issuing **crunacct -r CMS**.

0020-038 An error occurred while executing the sed program at state CMS. Probably insufficient space is detected.

Explanation: While the nightly accounting script, crunacct, was in the CMS phase, it attempted to execute the AIX "sed" program. This program failed.

User Response: Issue the **df** command to determine if any files systems are full, which was most likely the cause of the error. Restart crunacct from the CMS state by issuing **crunacct -r CMS**.

Chapter 6. 0021 - IBM Virtual Shared Disk common messages

0021-001 **The initial cache buffer count specified, *init_cache_buffer_count*, is invalid. It must be greater than zero.**

Explanation: The value passed for the initial cache buffer count is unacceptable. The value must be a number greater than zero.

User Response: Correct the value and reenter the command.

0021-002 **The maximum cache buffer count (*max_cache_buffer_count*) must be a number greater than or equal to initial cache buffer count (*init_cache_buffer_count*).**

Explanation: The value passed for the maximum cache buffer count was unacceptable. The value must be a number greater than or equal to the initial cache buffer count you specified. These are decimal values.

User Response: Correct the value and reenter the command.

0021-003 **The vsd request count specified, *vsd_request_count*, must be a number greater than zero.**

Explanation: The value passed for the IBM Virtual Shared Disk request count is unacceptable. The value must be a number greater than zero.

User Response: Correct the value and reenter the command.

0021-004 **The read/write request count specified, *rw_request_count*, must be a number greater than zero.**

Explanation: The value passed for the IBM Virtual Shared Disk request count was unacceptable. The value must be a number greater than zero.

User Response: Correct the value and reenter the command.

0021-005 **You have specified a local volume group name, *local_group_name*, that is not defined on node *node_name* (node number *node_number*).**

Explanation: The name passed for the local volume group is unacceptable. The local volume group must be defined on the node specified.

User Response: Use the **rsh lsvg** command to the node, and choose a defined volume group name. Reenter the command with this name.

0021-006 ***field_name* too long. Length must be less than or equal to 31 characters.**

Explanation: The name passed is unacceptable. The length of the name must be less than or equal to 31 characters.

User Response: Correct the name's length and reenter the command.

0021-007 **There was a nonzero return code from issuing lsvg to node *node_number*.**

Explanation: The routine issued the **lsvg** command to a node via **rsh**, and a nonzero return code was detected.

User Response: Make sure that the node is responsive, and that you have permissions to **rsh** to the node.

0021-008 **Global volume group name *global_group_name* is already in use.**

Explanation: The name specified already defines a global volume group in the SDR.

User Response: Use the **vsdelvg** command to delete the entry in the SDR and reenter the **vsdvg** command.

0021-009 **Entry already in the SDR.**

Explanation: The information specified for this command is already in the SDR.

User Response: Do action required. You already have this information in the SDR.

0021-010 **You have specified a global volume group name, *global_group_name*, that does not exist.**

Explanation: The name specified does not have an entry in the SDR.

User Response: Use the **vsdvg** command to add the global volume group name to the SDR.

0021-011 **There was a nonzero return code from issuing lsiv to node *node_number*.**

Explanation: The routine issued the **lsiv** command to a node via **rsh**, and a nonzero return code was detected.

User Response: Make sure the node is responsive and that you have permissions to **rsh** to the node.

0021-012 You have specified a logical volume name, *logical_volume_name*, that is not defined on the volume group *volume_group_name*.

Explanation: The name passed as the logical volume name is unacceptable. The logical volume name must be defined on the volume group specified.

User Response: Choose a logical volume name that exists on the volume group specified and reenter the command with this name.

0021-013 VSD_name *vsd_name* is already in use.

Explanation: The name specified already defines an IBM Virtual Shared Disk in the SDR.

User Response: Use the **undefvsd** command to undefine the IBM Virtual Shared Disk in the SDR and reenter the **defvsd** command.

0021-014 You have specified a VSD name, *vsd_name*, that does not exist.

Explanation: The name specified does not have an entry in the SDR.

User Response: No action required. You do not have an IBM Virtual Shared Disk with this name.

0021-015 The VSD_name, *vsd_name*, cannot be the same as the logical volume name.

Explanation: The IBM Virtual Shared Disk name and the LV name cannot be the same because the IBM Virtual Shared Disk would overwrite the LV's special device file, rendering the logical volume inaccessible.

User Response: Choose a new name for the IBM Virtual Shared Disk and reissue your command. The suggested naming convention is **vsd.logical_volume_name**.

0021-016 No adapter object was found for adapter *adapter_name* on node *node_number*.

Explanation: There is no adapter of that type on that node.

User Response: Verify that the node number and adapter name are correct. If they are valid, an adapter object must be created for them in the adapter class in the SDR.

0021-017 Local volume group name *local_volume_group_name* on node *node_number* already defined in Global volume group *global_volume_group_name*.

Explanation: A *local_volume_group_name* and serving *node_number* can only be associated with one *global_volume_group_name*. You are creating a second association, which will be rejected.

User Response: Decide which *global_volume_group_name* you want the *local_volume_group_name* and serving *node_number* pair to be associated with.

0021-018 Primary server node and secondary server node cannot be the same (*node_number*).

Explanation: If a *global_volume_group_name* has two servers, they must be two different nodes.

User Response: If the *global_volume_group* has only one server, do not specify a secondary server. Otherwise, you may have erroneously specified the same node as both primary and secondary server. Correct the value and enter the command again.

0021-019 The maximum buddy buffer size *max_buddy_buffer_size* must be a number greater than or equal to the minimum buddy buffer size *min_buddy_buffer_size*.

Explanation: An unacceptable value was passed for the maximum buddy buffer size. The value must be a number greater than or equal to the minimum buddy buffer size specified. These are decimal values.

User Response: Correct the value and enter the command again.

0021-020 The buddy buffer size specified, *buddy_buffer_size*, is not valid; it must be a number greater than zero.

Explanation: An unacceptable value was passed for the buddy buffer size. The value must be a number greater than zero.

User Response: Correct the value and enter the command again.

0021-021 The buddy buffer size specified, *buddy_buffer_size*, is not valid; it must be a number that is a power of 2 greater than or equal to 4096.

Explanation: An unacceptable value was passed for the buddy buffer size. The value must be a number that is a power of 2, and greater than or equal to 4096.

User Response: Correct the value and enter the command again.

0021-022 Logical Volume name
logical_volume_name in Global Volume Group *global_volume_group_name* is already defined as VSD name *VSD_name*.

Explanation: The IBM Virtual Shared Disk you are trying to create already exists with another name of *VSD_name*. A *logical_volume_name* and *global_volume_group_name* can be associated with only one IBM Virtual Shared Disk name. You are creating a second association, which will be rejected.

User Response: Verify that the *logical_volume_name* and the *global_volume_group_name* are correct. If so, you have already defined that pair as an IBM Virtual Shared Disk. Use *VSD_name* for the IBM Virtual Shared Disk, or undefine the old name with the **undefvsd** command. Define the IBM Virtual Shared Disk again with the **defvsd** command to use the new name.

0021-023 VSD *vsd_name* is configured on node *node* and cannot be undefined.

Explanation: An IBM Virtual Shared Disk cannot be undefined if it is configured on any node.

User Response: Bring the IBM Virtual Shared Disk to the defined state by issuing the proper combination of the **suspendvsd**, **stopvsd**, and **ucfgvsd** methods for *vsd_name* on the host. Enter the **undefvsd** command again.

0021-024 Deletion of VSD *vsd_name* from the VSD_TABLE in the SDR failed with a return code of *return_code*. VSD *vsd_name* and minor number *minor_number* are not undefined.

Explanation: The **SDRDeleteObjects** command failed when trying to undefine the IBM Virtual Shared Disk by deleting it from the SDR *VSD_Table* class. The *minor_number* was not deleted from the SDR *VSD_Minor_Number* class.

User Response: To fix the problem, check the preceding message from the **SDRDeleteObjects** command. When the SDR is fixed, enter the **undefvsd** command again.

0021-025 Logical volume *lvname* on volume group *local_name* on node *node* (*node_number*) is bootable. No secondary server is allowed on volume groups with bootable logical volumes.

Explanation: If a *global_volume_group_name* has two servers, the volume group must not contain a logical volume of type boot.

User Response: Make sure to specify the correct *volume_group*. Remove the bootable logical volume from the volume group, with **chlv -t bootable <logical volume>** name. Do not mix data in a bootable volume, because if a node tried to boot from that logical volume and use the volume group as the root volume group, while the other IBM Virtual Shared Disk serving node was trying to be a server for application data, your request would be rejected.

0021-026 Node *node_number* cannot be deleted because it is the primary server for global volume group *global_volume_group_name*.

Explanation: Node *node_number* is the primary server for global volume group *global_volume_group_name*. Deleting IBM Virtual Shared Disk information for the node would make the global volume group inaccessible along with other global volume groups for which this node may be a server.

User Response: Undefine *global_volume_group_name* first if you really want to make *node_number* no longer an IBM Virtual Shared Disk node. If you want to change some IBM Virtual Shared Disk parameters for *node_number*, you can reissue the **vsdnode** command without first issuing **vsdelnode** for *node_number*.

0021-027 Node *node_number* cannot be deleted because it is the secondary server for global volume group *global_volume_group_name*.

Explanation: Node *node_number* is the secondary server for global volume group *global_volume_group_name*. Deleting IBM Virtual Shared Disk information for the node would make the global volume group inaccessible along with other global volume groups for which this node may be a server.

User Response: Undefine *global_volume_group_name* first if you really want to make *node_number* no longer an IBM Virtual Shared Disk node. If you want to change some IBM Virtual Shared Disk parameters for *node_number*, you can reissue the **vsdnode** command without first issuing **vsdelnode** for *node_number*.

0021-028 You have specified a global volume group name, *global_volume_group_name*, containing a VSD. Use the **-f** option to force this action.

Explanation: The global volume group contains IBM Virtual Shared Disks.

User Response: If you want to remove the global volume group and its IBM Virtual Shared Disks, issue the **vsdelvg** command with the **-f** option.

0021-029 Failed to generate vsd minor number *minor_number* for vsd *vsd_name*.

Explanation: **defvsd** issues **SDRCreateObjects VSD_Minor_Number** to generate a new minor number for a specified IBM Virtual Shared Disk. If the return code from the SDR is nonzero, **defvsd** generates this error message.

User Response: If the *minor_number* is not a valid integer, problem is in **defvsd**. If the *minor_number* is a valid integer, the problem is in the SDR. Issue **vsdatlst** to verify the minor number in defined IBM Virtual Shared Disks. You can issue **/usr/lpp/ssp/bin/SDRGetObjects -q VSD_Minor_Number** to check the SDR.

0021-030 Bad system class **VSD_Minor_Number** in SDR.

Explanation: The **defvsd** command runs the **SDRCreateObjects VSD_Minor_Number** command to generate a new minor number for given IBM Virtual Shared Disk. If system class **VSD_Minor_Number** is empty after some IBM Virtual Shared Disks were defined, **defvsd** generates an error.

User Response: Check the SDR database by issuing: **/usr/lpp/ssp/bin/SDRGetObjects -q VSD_Minor_Number**.

0021-031 The IP packet size specified, *IP packet size*, is not valid. The VSD IP packet size must be between 512 to 63.5K and a multiple of 512.

Explanation: An unacceptable value was passed for the IBM Virtual Shared Disk IP packet size. The value must be a decimal number between 512 and 63.5K.

User Response: Correct the value and enter the command again.

0021-032 The logical volume group which contains *logical volume name* on *hostname* is not varied on.

Explanation: The **defvsd** command failed to run the LVM **Islv** command on the remote node.

User Response: Check the logical group on the remote node.

0021-033 The value of **eio_recovery** must be either 0 or 1.

Explanation: The **vsdvg** command was issued with an invalid value for **eio_recovery**.

User Response: Reissue the command with a valid value.

0021-034 The given **VSD_Global_Volume_Group** *global volume group name* is not defined in the SDR.

Explanation: A failure occurred when attempting to get **VSD_Global_Volume_Group** information from the SDR. The **VSD_Global_Volume_Group** name passed to the program is incorrect.

User Response: Run the **SDRGetObjects VSD_Global_Volume_Group** command to find the correct name.

0021-035 Cannot find *minor_number* from **VSD_Table** with **VSD_Global_Volume_Group** name *global volume group name*.

Explanation: A failure occurred attempting to get *minor_number* information from the SDR. The **VSD_Global_Volume_Group** name passed to the program is incorrect.

User Response: Run the **SDRGetObjects VSD_Global_Volume_Group** command and the **SDRGetObjects VSD_Table** command to find the correct name.

0021-036 Invalid argument **primary=*primary server number* secondary=*secondary server number***.

Explanation: The primary node and secondary node parameters are not correct.

User Response: Run the **SDRGetObjects VSD_Global_Volume_Group** command to find the correct values.

0021-037 Current **global_volume_group** *global volume group name* is defined as **primary=*primary server number* secondary=*secondary server number***.

Explanation: This is the current **VSD_Global_Volume_Group** information in the SDR.

User Response: None.

0021-038 **vsdchgserver command is invalid for a concurrent volume group.**

Explanation: The `vsdchgserver` command is not valid for a concurrent volume group. This command is used to switch the primary and secondary servers of a twin-tailed volume group.

User Response: None.

0021-039 **There was a bad `lv_blk0_pbn` value returned from issuing `rsh vsdxlate logical_volume_name to node node number`.**

Explanation: The routine issued the `vsdxlate` command to a node via `rsh`, and an incorrect `lv_blk0_pbn` was detected.

User Response: Ensure that the node is responsive and that you have permissions to `rsh` to the node.

0021-040 **Deletion of Fencemap for vsd `vsd_name` from `VSD_Fence` in the SDR failed with return code `return code`. `VSDvsd_name` is not undefined.**

Explanation: SDR call was not successful in removing the fence map before undefining the VSD.

User Response: Check that the SDR is accessible and then enter the command again.

0021-041 **Node `node_number` cannot be deleted because there are configured vsds on the node.**

Explanation: Node `node_number` is a client virtual shared disk node in the system. Deleting virtual shared disk information for the node could make the number of SP virtual shared disk objects inconsistent.

User Response: Unconfigure virtual shared disks on the node first in order to make the specified node no longer a virtual shared disk node.

0021-042 **Node `node name` is not part of cluster: `cluster name`, use `updatevsdnode to make it part of cluster and try again`.**

Explanation: `vsdvg` checks that a list of servers specified for concurrent Virtual Shared Disks be part of the same cluster.

User Response: Use the `updatevsdnode` command to make the node part of the cluster and try again.

0021-043 **Volume group id on node `node name` does not match with other nodes in the list of servers for concurrent volume group: `local volume group name`.**

Explanation: `vgid` on a node in a list of servers does not match with the rest of the servers for concurrent virtual shared disks.

User Response: Make sure that this volume group is indeed concurrent capable on all the nodes in the list of servers for concurrent virtual shared disks.

0021-044 **Volume group on node `node name` is not concurrent capable, make it concurrent capable and try again.**

Explanation: Volume group on a node is concurrent capable.

User Response: Make the volume group concurrent capable.

0021-045 **There was a non-zero return code from issuing `rsh lsattr on node node name`.**

Explanation: The routine issued the `lsattr` command to a node via `rsh`, and a non-zero return code was detected.

User Response: Make sure that the node is responsive and that you have permissions to `rsh` to the node.

0021-046 **One or both of the nodes: `primary server/secondary server` are part of the CVSD servers for volume group `local volume group name`.**

Explanation: The primary or secondary server specified for this volume group has been already used as a server for a concurrent virtual shared disk.

User Response: A node cannot be a concurrent virtual shared disk server for a volume group and a primary or secondary server at the same time.

0021-047 **Node `concurrent virtual shared disk server` is already defined as a server for volume group `volume group name` with different set of servers in global volume group `global volume group name`.**

Explanation: A node in the list of servers for concurrent virtual shared disk is already defined as a server for normal virtual shared disk for the same local volume group.

User Response: A node cannot be a concurrent virtual shared disk server and virtual shared disk server for the same volume group.

0021-048 **Concurrent VSDs and cache are mutually exclusive, use nochache option.**

Explanation: Concurrent Virtual Shared Disks and cache are mutually exclusive.

User Response: Use the nochache option for concurrent Virtual Shared Disks.

0021-050 **Maximum of only *number* Nodes allowed in a cluster.**

Explanation: Only eight nodes are allowed in a cluster.

User Response: Specify a maximum of eight nodes.

0021-052 **There are *number* of CVGS defined with node *node number* as the CVSD server, first remove this node as the server to change/remove the node from the cluster.**

Explanation: When cvgs are defined with a node as a server, the cluster to which it belongs cannot be changed.

User Response: Contact the IBM Support Center for instructions on using the SDRChangeAttrValues command for the VSD_Global_Volume_Group class.

0021-053 **The cluster *cluster name* already has *number* of nodes.**

Explanation: No more servers can be added to this Concurrent Virtual Shared Disk cluster.

User Response: This node would have to be defined in a different cluster.

0021-054 **Could not add/change node *node number* to the cluster due to SDR failure, continuing with the next node in the list.**

Explanation: An SDR error has prevented the successful completion of this command.

User Response: Check that the SDR is accessible and then enter the command again.

0021-060 **Node *node number* is unreachable, node should be up to make it part of CVSD cluster.**

Explanation: The specified node was not accessible when the command was issued.

User Response: Check that the node is up and is accessible. Then, enter the command again.

0021-061 **HACMP is controlling volume groups on node *node number*, cannot make it part of the CVSD cluster.**

Explanation: HACMP and RVSD cannot both manage concurrent volume groups on the same node.

User Response: Determine which product should be managing concurrent volume group access.

0021-062 **The RVSD level on node *node number* is at *version*, where CVSD cluster is not supported.**

Explanation: An attempt was made to define a Concurrent Virtual Shared Disk server on a node that does not have the correct level of code. The RVSD subsystem on the node must be at least version 3.2.0.0.

User Response: Upgrade the VSD and RVSD code on the specified node.

Chapter 7. 0022 - CMI messages

0022-001 **The repository cannot be accessed.**
Return code was *return code*.

Explanation: The routine could not access the System Data Repository. The routine halts.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0022-002 **You have specified an invalid number of arguments.**

Explanation: A command format which is not valid was issued. The routine halts.

User Response: Correct the command and enter it again.

0022-003 **You have specified an invalid flag.**

Explanation: A flag passed to the routine was not valid.

User Response: Correct the command and enter it again.

0022-004 **Issuing the command *command* gave a return code of *return code*.**

Explanation: The routine passed a command to the System Data Repository which gave a nonzero return code.

User Response: If you are deleting a node object or frame object that was not fully defined, ignore this message. Otherwise, refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0022-005 **You have specified an invalid starting frame number.**

Explanation: A starting frame number value which was not valid was passed. The value must be between 1 and 128, inclusive.

User Response: Correct the value and enter the command again.

0022-006 **You have specified an invalid value for -r.**

Explanation: A value which is not valid was passed with the -r flag.

User Response: Correct the value and enter the command again.

0022-007 **You have specified an invalid frame count.**

Explanation: A frame count value which is not valid was passed. The value must be between 1 and 128, inclusive.

User Response: Correct the value and enter the command again.

0022-008 **Start frame plus frame count must not exceed 128.**

Explanation: The specified frame count, when added to the start frame, exceeded 128, which is not valid.

User Response: Correct either the start frame or frame count and enter the command again.

0022-009 **You have specified an invalid starting tty port.**

Explanation: The value passed for the starting tty port was not valid.

User Response: Correct the value and enter the command again.

0022-010 **An interim tty port is invalid.**

Explanation: A value calculated for a tty port to be used for a frame in the range of frames specified was not valid. The routine terminates.

User Response: Verify the value provided for the starting frame, the frame count, or the starting tty port and enter the command again.

0022-011 **Each option must be of the form attribute=value.**

Explanation: A parameter in a format which was not valid was passed.

User Response: Correct the command and enter it again.

0022-012 **Each attribute name may be specified only once.**

Explanation: An attribute was specified more than once.

User Response: Correct the command and enter it again.

0022-013 **The install image must be a file in /spdata/sys1/install/images.**

Explanation: A value for the **install_image** attribute was passed which was not a file in the specified directory.

User Response: Correct the value and enter the command again.

0022-014 **You have specified an invalid value for the remove_image attribute.**

Explanation: A value other than true or false was passed for the **remove_image** attribute.

User Response: Correct the value and enter the command again.

0022-015 **You have specified an invalid value for the ntp_config attribute.**

Explanation: A value other than none, consensus, internet, or timemaster was passed for the **ntp_config** attribute.

User Response: Correct the value and enter the command again.

0022-016 **You have specified an invalid value for the ntp_server attribute.**

Explanation: A value that was not in the format, server[,server]... was passed for the **ntp_server** attribute, or one of the servers could not be resolved by the **host** command.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-017 **You have specified an invalid value for the ntp_version attribute.**

Explanation: A value other than 1 or 3 was passed for the **ntp_version** attribute.

User Response: Correct the value and enter the command again.

0022-018 **You have specified an invalid value for the amd_config attribute.**

Explanation: A value other than true or false was passed for the **amd_config** attribute.

User Response: Correct the value and enter the command again.

0022-019 **You have specified an invalid value for the print_config attribute.**

Explanation: A value other than false, open, or secure was passed for the **print_config** attribute.

User Response: Correct the value and enter the command again.

0022-020 **You have specified an invalid value for the usermgmt_config attribute.**

Explanation: A value other than true or false was passed for the **usermgmt_config** attribute.

User Response: Correct the value and enter the command again.

0022-021 **The password file must begin with a "\/".**

Explanation: A value that was not a full path was passed for the **passwd_file** attribute.

User Response: Correct the value and enter the command again.

0022-022 **You have specified an invalid value for the homedir_server attribute.**

Explanation: A value that could not be resolved with the **host** command was passed for the **homedir_server** attribute.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-023 **The homedir path must begin with a "\/".**

Explanation: A value that was not a full path was passed for the **homedir_server** attribute.

User Response: Correct the value and enter the command again.

0022-024 **You have specified an invalid value for the filecoll_config attribute.**

Explanation: A value other than true or false was passed for the **filecoll_config** attribute.

User Response: Correct the value and enter the command again.

0022-025 **You have specified an invalid value for the supman_uid attribute.**

Explanation: A uid value which is not valid was passed for the **supman_uid** attribute.

User Response: Correct the value and enter the command again.

0022-026 The uid specified with the `supman_uid` attribute must correspond to the uid for the id `supman`.

Explanation: A value that is in use for some userid other than `supman`. was passed for the `supman_uid` attribute.

User Response: Correct the value and enter the command again.

0022-027 You have specified an invalid value for the `supfilesrv_port` attribute.

Explanation: A port value which is not valid was passed for the `supfilesrv_port` attribute.

User Response: Correct the value and enter the command again.

0022-028 The port specified with the `supfilesrv_port` attribute must correspond to the port used for the id `supfilesrv`.

Explanation: A value that is in use by an id other than `supfilesrv`. was passed for the `supfilesrv_port` attribute.

User Response: Correct the value and enter the command again.

0022-029 You may not delete this node, which is a `/usr` server for another node.

Explanation: One of the nodes in the range of nodes to be deleted is a `/usr` server for other nodes, and thus may not be deleted.

User Response: Correct the range of nodes to be deleted and enter the command again or change all of the nodes served by this node to be served by another `/usr` server and then enter the command again.

0022-030 You have specified an invalid attribute name.

Explanation: An attribute was specified which was not valid.

User Response: Correct the value and enter the command again.

0022-031 You may not specify a value of `timemaster` or `internet` for the `ntp_config` attribute if you do not specify a value for `ntp_server`.

Explanation: An `ntp_config` value of `timemaster` or `internet` requires an `ntp_server`.

User Response: Enter the command again, specifying

an `ntp_server` along with an `ntp_config` value of `internet` or `timemaster`.

0022-032 You may not specify a value of `secure` for the `print_config` attribute if you do not specify a value for `print_id`.

Explanation: A `print_config` value of `secure` requires a `print_id`.

User Response: Enter the command again, specifying a `print_id` along with a `print_config` value of `secure`.

0022-033 You may not specify a value of `true` for the `usermgmt_config` attribute if you do not specify a value for `passwd_file`.

Explanation: A `usermgmt_config` value of `true` requires a `passwd_file` value.

User Response: Enter the command again, specifying a `passwd_file` along with a `usermgmt_config` value of `true`.

0022-034 You may not specify a value of `true` for the `usermgmt_config` attribute if you do not specify a value for `homedir_server`.

Explanation: A `usermgmt_config` value of `true` requires a `homedir_server`.

User Response: Enter the command again, specifying a `homedir_server` along with a `usermgmt_config` value of `true`.

0022-035 You may not specify a value of `true` for the `usermgmt_config` attribute if you do not specify a value for `homedir_path`.

Explanation: A `usermgmt_config` value of `true` requires a `homedir_path`.

User Response: Enter the command again, specifying a `homedir_path` along with a `usermgmt_config` value of `true`.

0022-036 You may not specify a value of `true` for the `filecoll_config` attribute if you do not specify a value for `supman_uid`.

Explanation: A `filecoll_config` value of `true` requires a `supman_uid`.

User Response: Enter the command again, specifying a `supman_uid` along with a `filecoll_config` value of `true`.

0022-037 You may not specify a value of true for the `filecoll_config` attribute if you do not specify a value for `supfilesrv_port`.

Explanation: A `filecoll_config` value of true requires a `supfilesrv_port`.

User Response: Enter the command again, specifying a `supfilesrv_port` along with a `filecoll_config` value of true.

0022-038 There was a non-zero return code from issuing remote command `setup_server` to node *number*.

Explanation: The routine issued the `setup_server` command to a node via a remote command, and a nonzero return code was detected.

User Response: Determine why the remote command to the node did not succeed.

0022-039 You have specified an invalid value for `-s`.

Explanation: A value which is not valid was passed with the `-s` flag.

User Response: Correct the value and enter the command again.

0022-040 You have specified an invalid starting slot number.

Explanation: A starting slot number value which is not valid was passed. The value must be between 1 and 16, inclusive.

User Response: Correct the value and enter the command again.

0022-041 You have specified an invalid node count.

Explanation: A node count value which is not valid was passed. The value must be between 1 and 4000, inclusive.

User Response: Correct the value and enter the command again.

0022-042 Start node plus node count must not exceed 4001.

Explanation: The specified node count, when added to the calculated start node, exceeded 4001, which is not valid.

User Response: Correct either the start frame, start slot, or node count, and enter the command again.

0022-043 Starting IP address could not be resolved.

Explanation: The value passed for the starting IP address could not be resolved using the `host` command. The routine halts.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-044 You have specified an invalid netmask.

Explanation: The value passed was not a valid netmask.

User Response: Correct the value and enter the command again.

0022-045 Default route could not be resolved.

Explanation: The value passed for the default route was not able to be resolved using the `host` command. The routine halts.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-046 Node to be changed - *node number* - could not be found in repository.

Explanation: The routine encountered a node in the range of nodes specified which could not be found in the repository. The routine halts.

User Response: Make sure that you have specified the node range correctly and that information for the nodes is in the System Data Repository. Correct the node range and enter the command again.

0022-047 *address* - Interim IP address could not be resolved.

Explanation: A value calculated for an IP address to be used for a node in the range of nodes specified, could not be resolved using the `host` command. The routine halts.

User Response: Verify the value provided for the starting IP address, the node range specified, the value for the `-s` flag, or your name resolution. Enter the command again.

0022-048 To enter or change data regarding the `en0` adapter, use the `spethernt` command.

Explanation: The `spadaptrs` command may not be used in connection with the `en0` adapter.

User Response: Use the `spethernt` command.

0022-049 You have specified an invalid adapter name.

Explanation: A adapter name value which is not valid was passed.

User Response: Correct the value and enter the command again.

0022-050 If you specify a css adapter, you must specify -n yes, unless you specify that ARP is to be enabled.

Explanation: When providing information about a css adapter, -n yes must be specified, unless -a (ARP enable) is yes.

User Response: Correct the command and enter again.

0022-051 Each flag may be specified only once.

Explanation: A flag was specified more than once.

User Response: Correct the value and enter the command again.

0022-052 The node identifier for the boot_server could not be found in the repository.

Explanation: A value that did not correspond to either a valid SP node or the control workstation was passed with the -n flag.

User Response: Correct the value and enter the command again.

0022-053 You have specified an invalid install image name for -i.

Explanation: A value which is not valid was passed with the -i flag. The value must be a file in the //spdata/sys1/install/images directory on the control workstation.

User Response: Correct the value and enter the command again.

0022-054 You may not specify node number as an ntp_server.

Explanation: A value that corresponds to an SP node was passed for an ntp_server.

User Response: Enter the command again, specifying an ntp_server which is not an SP node.

0022-055 You must specify at least one flag to indicate a value to be changed.

Explanation: You did not indicate a value to change for the specified node(s).

User Response: Enter the command again, providing a value to change.

0022-056 You have specified a value which is not valid for -f.

Explanation: A value other than long or short was passed with the -f flag.

User Response: Correct this value and enter the command again.

0022-057 No adapter object was found for the adapter specified in node number.

Explanation: An adapter name was passed to be used for each node in the range of nodes specified, but no adapter with that name was found for the indicated node. The routine halts.

User Response: Correct either the adapter name or the range of nodes and enter the command again.

0022-058 Adapter IP address could not be resolved IP address.

Explanation: A value found in an adapter object could not be resolved using the host command. The routine halts.

User Response: Verify your name resolution and enter the command again or correct the value in the adapter object and then enter the command again.

0022-059 You may not delete this node, which is a boot/install server for another node.

Explanation: One of the nodes in the range of nodes to be deleted is a boot/install server for other nodes, and thus may not be deleted.

User Response: Correct the range of nodes to be deleted and enter the command again or change all of the nodes served by this node to be served by another boot/install server and then enter the command again.

0022-060 Information in the SDR indicates that the node is not up.

Explanation: The SDR indicates that a node is not up, so the remote command to get information from the node is not issued. The routine continues.

User Response: If you wish to get information from the node, you must ensure that the node is up and running and enter the command again.

0022-061 There was a non-zero return code from issuing an dsh command to node number.

Explanation: When the command to get information from the node was issued via dsh, a nonzero return

code was detected. The routine continues.

User Response: Determine why **dsh** operations are not succeeding on your system. Check the authentication mechanism.

0022-062 Unable to acquire hardware Ethernet address for node *node*.

Explanation: The routine could not obtain the hardware Ethernet address for the indicated node. The routine continues.

User Response: Consult the log file located in */var/adm/SPlogs/spmon/nc/nc.frame_number.slot_number* to determine the cause of the problem. After correcting the problem, enter the **sphrdwrad** command again.

0022-063 You may not change the boot server for node *number* to be itself.

Explanation: A value that corresponds to a node in the range of nodes for this operation was passed with the **-n** flag.

User Response: Correct either the *boot_server* value on the **-n** flag or the range of nodes and enter the command again.

0022-064 If you specify a *css* and you wish to use switch node numbers, you may only specify a start frame and a start slot representing the lowest numbered node in the current system partition.

Explanation: When providing information about the *css* adapter, the start frame and start slot must both be 1 if **-n** is **yes**.

User Response: Correct the command and enter it again.

0022-065 Last IP address - *address* - not in same subnet as starting IP address.

Explanation: The value calculated for the last IP address for the range of nodes specified is not in the same subnet as the starting IP address. The routine halts.

User Response: Verify the value provided for the starting IP address, the node range specified, or the value for the **-s** flag. Enter the command again.

0022-066 If you specify a *css* adapter and you wish to use switch node numbers, you may only specify node count equal to the number of nodes in the repository - *number*.

Explanation: When providing information about the *css* adapter, the node count must be equal to the total number of SP nodes in your system if **-n** is **yes**.

User Response: Correct the command and enter it again.

0022-067 The value *value* , specified for the attribute *attribute* is not valid.

Explanation: A value was passed for the specified attribute which was not valid.

User Response: Verify the value provided and enter the command again.

0022-068 You may not specify a value of true for the *usermgmt_config* attribute if you do not specify a value for *passwd_file_loc*.

Explanation: A *usermgmt_config* value of true requires a *passwd_file_loc* value.

User Response: Enter the command again, specifying a *passwd_file_loc* along with a *usermgmt_config* value of true.

0022-069 If you specify a token ring adapter, you must specify the token ring data rate with the **-r flag.**

Explanation: When you provide information about token ring adapters, you must specify the token ring data rate.

User Response: Correct the command and enter it again.

0022-070 You have specified an invalid value for **-u.**

Explanation: The value passed for the **-u** flag could not be resolved using the host command.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-071 You may not change the */usr* server for node *number* to be itself.

Explanation: A value that corresponds to a node in the range of nodes for this operation was passed with the **-u** flag.

User Response: Correct either the */usr* server value on the **-u** flag or the range of nodes and enter the command again.

0022-072 You may not specify node *number* as a */usr* server, because it is a */usr* client.

Explanation: A value was passed with the **-u** flag which corresponded to a node which was a */usr* client.

User Response: Correct either the */usr* server value on the **-u** flag and enter the command again or change

the `/usr` client to be a full AIX node and then enter the command again.

0022-073 You have specified an invalid value for `-t`.

Explanation: A value was passed with the `-t` flag which is not valid.

User Response: Enter the command again with the correct syntax.

0022-074 You may not specify node *number* as a boot server, because it is a `/usr` client.

Explanation: A value that corresponds to a node that is a `/usr` client was passed with the `-n` flag.

User Response: Correct either the `boot_server` value on the `-n` flag and enter the command again, or change the `/usr` client to be a full AIX node and then enter the command again.

0022-075 You may not specify the `-t` flag unless you are specifying an ethernet adapter.

Explanation: If you are not providing information about an Ethernet adapter, you may not specify the `-t` flag.

User Response: Correct the command and enter it again.

0022-076 You may not specify the `-r` flag unless you are specifying a token ring adapter.

Explanation: If you are not providing information about a token ring adapter, you may not specify the `-r` flag.

User Response: Correct the command and enter it again.

0022-077 You may not specify the control workstation as an `ntp_server`.

Explanation: A value that corresponds to the control workstation was passed for an `ntp_server`.

User Response: Enter the command again, specifying an `ntp_server` which is not the control workstation.

0022-078 You may not specify node *node_number* as a `/usr` client, because it is a boot/install server.

Explanation: One of the nodes in the range of nodes to be made into `/usr` clients with this command is a `boot_install` server.

User Response: Correct the range of nodes to be changed and enter the command again or change all of

the nodes served by this node to be served by another `boot/install` server and then enter the command.

0022-079 You may not specify node *node_number* as a `/usr` client, because it is a `/usr` server.

Explanation: One of the nodes in the range of nodes to be made into `/usr` clients with this command is a `/usr` server.

User Response: Correct the range of nodes to be changed and enter the command again or change all of the nodes served by this node to be served by another `/usr` server and then enter the command.

0022-080 There was a non-zero return code from issuing remote command `services_config` to node *number*.

Explanation: The routine issued the `services_config` command to a node via a remote command, and a nonzero return code was detected.

User Response: Determine why the remote command to the node did not succeed.

0022-081 You have specified an invalid value for the `spacct_enable` attribute.

Explanation: A value other than true or false was passed for the `spacct_enable` attribute.

User Response: Correct the value and enter the command again.

0022-082 You have specified an invalid value for the `spacct_exclude_enable` attribute.

Explanation: A value other than true or false was passed for the `spacct_exclude_enable` attribute.

User Response: Correct the value and enter the command again.

0022-083 You have specified an invalid value for the `spacct_actnode_thresh` attribute.

Explanation: A value which is not valid was passed for the `spacct_node_thresh` attribute. The value must be between 0 and 100, inclusive.

User Response: Correct the value and enter the command again.

0022-084 You have specified an invalid value for the `acct_master` attribute.

Explanation: A value that did not specify a valid SP node was passed for the `acct_master` attribute.

User Response: Correct the value and enter the command again.

0022-085 You have specified an invalid value for **-e**.

Explanation: A value other than true, false, or default was passed for the **-e** flag.

User Response: Correct the value and enter the command again.

0022-086 You have specified an invalid value for **-j**.

Explanation: A value which is not valid was passed for the **-j** flag.

User Response: Correct the value and enter the command again.

0022-087 You have specified an invalid value for **-x**.

Explanation: A value other than true or false was passed for the **-x** flag.

User Response: Correct the value and enter the command again.

0022-088 There was a non-zero return code from issuing **dsh services_config** to a host or hosts.

Explanation: When the **services_config** command was issued via **dsh**, a nonzero return code was detected. The routine exits.

User Response: None.

0022-089 You have specified an invalid value for **-g**.

Explanation: The value passed for the **-g** flag was not able to be resolved using the **host** command.

User Response: Verify the value provided or your name resolution and enter the command again.

0022-090 You have specified an invalid value for **-h**.

Explanation: A value was passed with the **-h** flag which was not valid. The value must be a list of disks to be used for destination hard disks.

User Response: Correct the value and enter the command again.

0022-091 There was a non-zero return code from issuing remote command **/bin/bootlist** to node *node*.

Explanation: The routine issued the **/bin/bootlist** command to a node using a remote command, and a nonzero return code was detected.

User Response: To network boot the node, issue the following commands on the node:

```
bootlist -m normal ent0 hdisk0
shutdown -Fr
```

or use Node Conditioning.

0022-092 Frame *frame number*, which was marked for deletion, could not be found in the SDR.

Explanation: A frame specified for deletion does not have a **Frame** object in the SDR.

User Response: Issue the command again with frames that already exist.

0022-093 You may not delete the frame(s) specified because node *boot server node to be deleted* is a boot server for node *node served* which is in a frame not to be deleted.

Explanation: One of the nodes in a frame in the range of frames to be deleted is a boot server for a node in a frame which is not being deleted. Thus, the frame may not be deleted.

User Response: Correct the range of frames you want to delete and enter the command again or change all of the nodes not to be deleted which are served by this node to be served by another boot server and then enter the command again.

0022-094 You may not delete the frame(s) specified because node */usr server node to be deleted* is a **/usr** server for node *node served* which is in a frame not to be deleted.

Explanation: One of the nodes in a frame in the range of frames to be deleted is a **/usr** server for a node in a frame which is not being deleted. Thus, the frame may not be deleted.

User Response: Correct the range of frames to be deleted and enter the command again or change all of the nodes not to be deleted which are served by this node to be served by another **/usr** server and then enter the command again.

0022-095 To delete data regarding the **en0** adapter, use the **spdelnode** command.

Explanation: The **spdeladap** command may not be used in connection with the **en0** adapter.

User Response: Use the **spdelnode** command.

0022-097 No nodes found in the range specified.

Explanation: Using the start_frame, start_node and node_count specified, no node objects were found in the System Data Repository.

User Response: Correct the command and enter it again.

0022-098 Could not open file specified with -l flag

Explanation: Command processing could not open the file supplied with the -l flag

User Response: Check the spelling, path, and permissions of the file and enter the command again.

0022-099 File specified with -l flag must contain one line.

Explanation: The file supplied with the -l flag contained more than one line of data. The file may contain comment lines (preceded by a #) or blank lines but only one line of data.

User Response: Correct the contents of the node list file and enter the command again.

0022-100 You have supplied an invalid node list.

Explanation: The node list specified with the -l flag on the command line or in a file was not valid. It must be a comma-delimited list of node numbers with no white space and must not end with a comma.

User Response: Correct the node list and enter the command again.

0022-101 You may not specify the -l or _N flag with either the -e, -f, -p or the -x flag.

Explanation: As the message indicates, you have specified -l or N flag with -e, -f, -p, or -x. not be used.

User Response: Correct the command and enter it again.

0022-102 You must specify a type of data to be displayed.

Explanation: When using the splstdata command, you must provide at least one flag to indicate which type of data you wish to be displayed.

User Response: Correct the command and enter it again.

0022-103 You have specified an invalid value for -a.

Explanation: A value other than **yes** or **no** was passed with the -a flag.

User Response: Correct the value and enter the command again.

0022-104 You may not specify the -a flag or the -n flag unless you are specifying a css adapter.

Explanation: If you are not providing information about the css adapter, you may not specify the -a flag.

User Response: Correct the command and enter it again.

0022-105 You have specified an invalid value for -n.

Explanation: A value other than **yes** or **no** was passed with the -a flag.

User Response: Correct the value and enter the command again.

0022-106 If you specify a css adapter and you wish to use switch node numbers, you must use Start Frame, Start Slot, and Node Count.

Explanation: If switch node numbers are to be used, the nodes may not be specified with the -l command.

User Response: Correct the command and enter it again.

0022-107 If you specify a css adapter and you wish to use switch node numbers, you must not specify -s yes.

Explanation: If using switch node numbers, you cannot use the flag that indicates that IP addresses are to be skipped.

User Response: Correct the command and enter it again.

0022-108 You have supplied an invalid node: node

Explanation: The specified node, supplied with a node list, is not valid.

User Response: Correct the node list and enter the command again.

0022-109 If you are using a node list or node group, you must not specify -s yes.

Explanation: If using a node list, you cannot use the flag indicating that IP addresses are to be skipped.

User Response: Correct the command and enter it again.

0022-110 You must issue *path/kinit* and rerun this command.

Explanation: You do not have a ticket-granting ticket (or it has expired), and this command requires one.

User Response: Issue *path/k4init* and run the command again.

0022-111 Only one flag may be specified for type of data to be displayed.

Explanation: When using the *splstdata* command, you may supply only one flag to indicate which type of data you want to appear.

User Response: Correct the command and enter it again.

0022-112 Node *node* is currently powered on. It must be powered off prior to deletion.

Explanation: The *host_responds* indication in the System Data Repository is 1, indicating that the node may still be in use. To ensure that a node that is being deleted is not in use, *host_responds* must be set to 0.

User Response: Power off the node using the *spmon —power off nodexx* command. Then, enter the *spdelnode* command.

0022-113 *host_responds* is 1 for node *node* and Frame Objects will not be deleted unless *host_responds* is 0 for all nodes in all frames to be deleted.

Explanation: Before deleting the Frame Object for the frame containing node *node*, its *host_responds* value must be 0.

User Response: Shut the node down (and all nodes on all frames to be deleted) and enter the command again.

0022-114 *Switch_partition* object does not exist or not found in the SDR.

Explanation: The switch partition class was not properly initialized.

User Response: Check to see that all subsequently run programs ran successfully. Check the *SDR_config* log */var/adm/SPlogs/sdr/SDR_config.log* for any errors that may have been reported.

0022-115 Node Objects still being created; try running this operation in a few minutes.

Explanation: The Node Objects for new nodes have not all been created, and they may be needed for this operation to complete.

User Response: Wait a few minutes until *SDR_config* has completed and run the command again.

0022-116 Partition(s) *new_partition* not found in layout *layout*.

Explanation: The *new_partition* names listed in the message were not found in the *config/layout* directory specified on the *verparvds* command.

User Response: Correct either the *new_partition* names specified on the *verparvds* command, or specify the proper *config/layout* directory containing the named *new_partitions*.

0022-117 No system partitions found in layout *layout*

Explanation: No system partitions were found in the *config/layout* directory specified on the command.

User Response: Specify a valid *config/layout* directory containing the named new system partitions. See the *spdisplay_config* or *locate_syspar_configs* commands for help in locating a valid directory.

0022-118 Duplicate *syspar syspar* encountered! Layout *layout* rejected.

Explanation: In processing the specified configuration layout directory, two system partitions were found with the same name, which is not valid.

User Response: Change the system partition names in the configuration layout directory to make them unique, or perhaps you have specified only a *config* directory, not the correct *config/layout* directory. Issue the command again with the correct *config/layout* directory.

0022-119 Node *node_number* found in two *syspars: syspar1* and *syspar2*. layout *layout* rejected.

Explanation: In processing the specified *config/layout* directory, node *node_number* was found in two system partitions (*syspar1* and *syspar2*), which is not valid. A node must be in exactly one system partition.

User Response: Most likely, you have specified only a *config* directory, not the desired *config/layout* directory. Issue the command again with the correct *config/layout* directory. Otherwise, your *config/layout* directory has become corrupted.

0022-120 **IRRECOVERABLE ERROR: write to output_file *output_file* failed!**
:error_message.

Explanation: The command writes commands to the output_file specified (or a default one if none is specified). However, the command received an error on a write request to the file. The *error_message* provides more details on the write error.

User Response: Correct the situation indicated by the *error_message*, or a preceding error message, and issue **verparvsd** again.

0022-121 **ERROR: Node *node_number* in new syspar *new_syspar* has a VSD_adapter of *adapter*. Node *node_number1* in the same new syspar has a VSD_adapter of *adapter1*. All VSD_adapters for this syspar will be set to en0.**

Explanation: For efficiency and performance, all nodes in a virtual shared disk cluster should be directly connected over the same network. For example, the SP Switch is the recommended choice, so all virtual shared disk nodes should specify an adapter name of **css0**, on either the **vsdnode** command, or its SMIT panel, SMIT fastpath vsdnode_dialog.

Nodes numbered *node_number* and *node_number1* in new system partition *new_syspar* have different settings for the VSD_adapter field, *adapter* and *adapter1*, respectively.

User Response: If the **-F** flag is used in **spapply_config**, VSD_adapter will be set to en0 on all virtual shared disk nodes in new system partition *new_syspar*, to ensure all virtual shared disk nodes will be able to communicate with each other.

Use the **vsdnode** command or SMIT panel to change the VSD_adapter to the desired value.

0022-122 **ERROR: Node *node_number1* in new syspar *new_syspar* has a VSD_max_buddy_buffer_size of *max_buddy1*.**

Explanation: Node *node_number* in the same new syspar has a VSD_max_buddy_buffer_size of *max_buddy* with *old_nbuddies* VSD_max_buddy_buffers.

On node *node_number*, setting VSD_max_buddy_buffer_size to *max_buddy1* and VSD_max_buddy_buffers to *new_nbuddies*.

In a virtual shared disk cluster, it is imperative that the value of VSD_max_buddy_buffer_size be the same on all nodes. Otherwise, a virtual shared disk client node could send a message to a virtual shared disk server node that the server simply could not process, and the request would fail. The **verparvsd** command is pointing out that this imperative has been violated.

User Response: The **verparvsd** command will fix the situation if **-F** is specified on **spapply_config**. Otherwise, the command will not succeed.

The fix is to adjust VSD_max_buddy_buffer_size on node *node_number* up to *max_buddy1*. VSD_max_buddy_buffers on node *node_number* will be adjusted from *old_nbuddies* to *new_nbuddies*, such that the same amount of storage is allocated to the buddy buffer on node *node_number*, under the constraint that there must be an integer number of VSD_max_buddy_buffers.

0022-123 **ATTENTION: from oldsyspar *oldsyspar* the primary server node *node_number* for global volume group *vgv* is not a VSD node!**

Explanation: The primary server node for global volume group *vgv* is defined as node *node_number*, but node *node_number* is not a Virtual Shared Disk node. This means that the **vsdnode** command has not been run for node *node_number*, so node *node_number* cannot be a server for any *vgv*.

User Response: Run the **vsdnode** command, or smit vsdnode_dialog fast path, on node *node_number* to make it a virtual shared disk node, or change the primary server for global volume group *vgv* to the correct Virtual Shared Disk node.

0022-124 **ATTENTION: from oldsyspar *oldsyspar* the secondary server node *node_number* for global volume group *vgv* is not a VSD node**

Explanation: The secondary server node for global volume group *vgv* is defined as node *node_number*, but node *node_number* is not a Virtual Shared Disk node. This means that the **vsdnode** command has not been run for node *node_number*, so node *node_number* cannot be server for any *vgv*.

User Response: Run the **vsdnode** command, or smit vsdnode_dialog fast path, on node *node_number* to make it a virtual shared disk node, or change the secondary server for global volume group *vgv* to the correct Virtual Shared Disk node, or remove the secondary server.

0022-125 **ERROR: Global volume group *vgv* from old syspar *oldsyspar* has its primary server node *primary_node_number* in syspar *system_partition*, but its secondary server node *secondary_node_number* in syspar *system_partition*. The secondary server for *vgv* will be undefined.**

Explanation: The global volume group *vgv* has two servers, but they are in different new partitions, which is not allowed.

User Response: If **-F** is not specified on **spapply_config**, it fails. Otherwise, the secondary server will be removed, leaving the *gvg* with a single primary server. Do one of the following:

- Choose another layout directory.
- Re-cable your disk drives for the *gvg* and redefine it so that both servers are in the same new partition.
- Copy your data to a new twin tailed volume group that is valid in the new partitioning layout

0022-126 **ERROR: GVG *gvg* from oldsyspar oldsyspar already exists in syspar syspar Renaming it to *new_gvg_name*.**

Explanation: Global volume group names must be unique in a system partition. You can have two global volume groups with the same name if they are in separate system partitions.

This problem error occurs if you revise your system partitions such that two global volume groups with the same name appear in the same system partition. Global volume groups are assigned to the system partition containing their primary server node.

User Response: If **-F** is not specified on **spapply_config**, it fails. Otherwise, the global volume group is renamed to *new_gvg_name*. All Virtual Shared Disks on the global volume group will have their global volume group name changed in their definitions. Do one of the following:

- Accept the new name and specify **-F** on **spapply_config**.
- Change the virtual shared disk name to one that will be unique in the new system partition.
- Select a new layout.

0022-127 **ERROR: VSD *vsdname* already exists in syspar syspar Renaming VSD *vsdname* from oldsyspar oldsyspar to *new_vsdname*.**

Explanation: Virtual shared disk names must be unique in a system partition. You can have two vsds with the same name if they are in separate system partitions.

This problem may occur if you try to revise your system partitions such that two vsds with the same name are in the same system partition. Virtual shared disks are assigned to the system partition containing their global volume group.

User Response: If **-F** is not specified on **spapply_config**, it fails. Otherwise, the virtual shared disks is renamed to *new_vsdname*. Any HSDs containing this virtual shared disk will automatically inherit this name change in their definitions. Do one of the following:

- Accept the new name and specify **-F** on **spapply_config**

- Change the global volume group name to one that will be unique in the new system partition

0022-128 **ERROR: VSD *vsd1* of HSD *hsdname* is in syspar *syspar1* but VSD *vsd* of HSD *hsdname* is in syspar *syspar*.**

Explanation: All of the virtual shared disks in an HSD **must** be in the same system partition.

HSD *hsdname* violates this rule because virtual shared disks *vsd1* and *vsd* are in system partitions *syspar1* and *syspar*, respectively. HSD *hsdname* will not be usable in the new system partition layout.

User Response: If **-F** is not specified on **spapply_config**, it fails. Otherwise, the HSD will be renamed to *hsdname.BAD*.

Either choose another layout directory, or move your data from the virtual shared disks in the wrong system partition to virtual shared disks in the new system partitions, and redefine the HSD to remove the **.BAD** from the name and pick up any new virtual shared disk names.

0022-129 **All VSDs in HSD *hsdname.BAD* are now in the same partition. Renaming HSD *hsdname.BAD* to *hsdname*.**

Explanation: An HSD name that ends in **.BAD** is reserved for use by the IBM virtual shared disk partitioning function, **verparvsd**. **verparvsd** will put **.BAD** on the end of an *hsdname* if all of its IBM Virtual Shared Disks are NOT in the same system partition.

Conversely, on repartitioning, if a **.BAD** HSD is found to **have** all its IBM Virtual Shared Disks in the same system partition, the **.BAD** is removed from the HSD name, as the HSD is now usable.

User Response: None required. This situation does not cause the **verparvsd** or **spapply_config** commands to fail. You may rename your HSD if you like, but do not put **.BAD** at the end of the name.

0022-130 **ERROR: HSD *hsdname* already exists in syspar *syspar*. Renaming HSD *hsdname* from oldsyspar *oldsyspar* to *new_hsdname*.**

Explanation: HSD names must be unique in a system partition. You can have more than one HSD with the same name as long as they are in different system partitions.

The problem arises if you try to revise your system partitions, such that two HSDs with the same name appear in the same system partition. HSDs are assigned to the system partition containing their first IBM Virtual Shared Disk.

User Response: If **-F** is not specified on **spapply_config**, it fails. Otherwise, the HSD *hsdname*

is renamed to *new_hsdname*. Either just accept the new name and specify **-F** on **spapply_config**, or change the **hsd_name** to one that will be unique in the new system partition.

0022-131 *command failed: rc = return_code.*

Explanation: The command *command*, which was issued, was not successful with return code *return_code*, causing the command you invoked to not succeed.

User Response: Refer to error messages from *command*. Fix the problems that caused *command* to fail, and issue your original command again.

0022-132 **Cannot open output_file** *output_file* for output.*error_message*.

Explanation: The command writes commands to the *output_file* specified. However, it was not successful trying to open *output_file*. The *error_message* provides more details on problem.

User Response: Correct the situation indicated by the *error_message*, or a preceding error message, and issue your original command again.

0022-133 *command failed: errno = return_code error_message*

Explanation: The command *command*, which was issued, was not successful with return code *return_code*, and error message *error_message*, causing the command you invoked to not succeed.

User Response: Refer to *error_message* and error messages from *command*. Fix the problems that caused *command* to fail, and issue your original command again.

0022-134 **The -u option is valid only for a node running at the PSSP-1.2 code level.**

Explanation: The **-u** flag was specified for one or more nodes running at a code level other than PSSP-1.2.

User Response: Enter the command with an acceptable flag or change the list of nodes to ensure that each is at the PSSP-1.2 code level.

0022-135 **The -g option is valid only for a node running at the PSSP-1.2 code level.**

Explanation: The **-u** flag was specified for one or more nodes running at a code level other than PSSP-1.2.

User Response: Enter the command with an acceptable flag or change the list of nodes to ensure that each is at the PSSP-1.2 code level.

0022-136 **The -a option is valid only for a node running at the PSSP-1.2 code level.**

Explanation: The **-a** flag was specified for one or more nodes running at a code level other than PSSP-1.2.

User Response: Enter the command with an acceptable flag or change the list of nodes to ensure that each is at the PSSP-1.2 code level.

0022-137 **Could not open code levels file** *code_levels_file*.

Explanation: The code levels file **/usr/lpp/ssp/bin/spcodelevels** could not be opened.

User Response: Determine why the file could not be opened, correct and issue the command again.

0022-138 **Layout description file not found - incorrect pathname specified.**

Explanation: The supplied layout pathname did not contain a layout description file.

User Response: If a pathname that was not valid was specified, issue the command again with a valid layout pathname.

0022-139 **No syspar directory found in specified path.**

Explanation: The supplied layout pathname did not contain any system partition directories.

User Response: If a pathname which is not valid was specified, then enter the command with a valid layout pathname.

0022-140 **Nodelist file for partition** *system_partition_name* not found.

Explanation: The nodelist file is missing for the specified system partition directory.

User Response: If a pathname that was not valid was specified, issue the command again with a valid layout pathname.

0022-141 **Topology file for partition** *system_partition_name* not found.

Explanation: The topology file is missing for the specified system partition directory.

User Response: If a pathname that was not valid was specified, issue the command again with a valid layout pathname.

0022-142 **Customization file for partition**
system_partition not found.

Explanation: The customization file was not found.

User Response: Use the **spcustomize_syspar** command to customize this system partition or select another system partition configuration layout to apply.

0022-143 **Could not open**
system_partition_directory
lcustomization_file.

Explanation: The customization file for the specified system partition directory could not be opened.

User Response: If the file does not exist then use **spcustomize_syspar** or the SMIT interface to customize it again.

0022-144 **Customization file contains incorrect stanza: File: *system_partition_directory***
lcustomization_file **Stanza: stanza.**

Explanation: The customization file in the specified system partition directory contains a stanza value that was not valid.

User Response: Customize the system partition again and correct the stanza that was not valid.

0022-145 **Customization file missing *stanza_type***
stanza.

Explanation: A customization file in the supplied layout directory is missing the specified stanza.

User Response: Customize the system partition again and supply the missing information.

0022-146 **Non-unique system partition name**
specified for *system_partition_directory*.

Explanation: The supplied layout directory contains two system partitions with the same name (the name of the second system partition directory is specified in the message).

User Response: Customize the system partition to give it a unique name.

0022-147 **System Data Repository cannot be**
reached; rc= *return_code*.

Explanation: The attempt to reach the System Data Repository was not successful.

User Response: Determine why the System Data Repository subsystem is not running and start it again.

0022-148 **Default system partition**
system_partition not defined in specified
layout.

Explanation: The specified layout does not contain a system partition with a name of the default system partition. Exactly one system partition must have the name of the default system partition (the hostname of the control workstation)

User Response: Customize one of the system partitions in the layout again to ensure it has the name of the default system partition as its name. Alternatively, you may select a different layout with a system partition that has been customized with the name of the default system partition.

0022-149 **Attention: node: *node* in system**
partition *system_partition* has
host_responds value of: *host_responds*.

Explanation: The specified node in the specified changed system partition is not reported to be shutdown. Nodes in changed system partitions should be shutdown while performing system partitioning.

User Response: None.

0022-150 **Command *verparvsd* returned error;**
rc= *return_code*.

Explanation: The **verparvsd** command returned a nonzero error code.

User Response: Determine if the inconsistencies detected by **verparvsd** can be corrected by using the **-F** flag. If appropriate, issue the **spapply_config** command again with the **-F** flag.

0022-151 **Command *SDRArchive* returned error;**
rc= *return_code*.

Explanation: The attempt to create an archive copy of the System Data Repository was not successful.

User Response: Determine the reason from the error code, correct the problem and try the operation again.

0022-152 **Attention problem stopping or deleting**
partition sensitive subsystems using
***syspar_ctrl* for *syspar*.**

Explanation: The attempt to stop or remove one or more of the partition sensitive subsystems controlled by the Syspar Controller (**syspar_ctrl**) in the specified system partition returned a nonzero return code.

User Response: If necessary, correct the error and run **syspar_ctrl -D** again for the specified syspar.

0022-153 You have specified a starting switch port number that is not valid.

Explanation: The starting switch port number that was entered for use with the command was not valid.

User Response: Choose a valid starting switch port number and try the command again.

0022-154 Error stopping hr daemon for syspar
system_partition_name; rc= return_code.

Explanation: The hr daemon for the specified system partition returned a nonzero return code.

User Response: If necessary, correct the error and try the operation again.

0022-155 Error removing hr daemon for syspar
system_partition_name rc= return_code.

Explanation: The attempt to remove the **host_responds** daemon for the specified system partition returned a nonzero return code.

User Response: If necessary, correct the error and try the operation again.

0022-156 Error updating Syspar object in SDR;
rc= return_code.

Explanation: The attempt to update a Syspar object was not successful.

User Response: Follow your local procedures for gathering information and reporting problems.

0022-157 Error adding syspar:
system_partition_name rc= return_code.

Explanation: The attempt to add a system partition was not successful.

User Response: Follow your local procedures for gathering information and reporting problems.

0022-158 Error creating syspar objects:
system_partition_name rc= return_code.

Explanation: The attempt to create a Syspar object was not successful.

User Response: Follow your local procedures for gathering information and reporting problems.

0022-159 Could not open nodelist file:
system_partition_directory/nodelist_file.

Explanation: The attempt to open the **nodelist** file for the specified system partition failed.

User Response: The **nodelist** file is installed with the **ssp.top** package. Ensure that this package has been installed and try the operation again.

0022-160 Error updating Syspar_map for syspar:
system_partition_name,
switch-node-number:
switch_node_number; rc= return_code.

Explanation: The attempt to update the Syspar_map object in the System Data Repository returned a nonzero return code.

User Response: Follow your local procedures for gathering information and reporting problems.

0022-161 Error updating Syspar object in SDR;
rc= return_code.

Explanation: The attempt to update a Syspar object in the System Data Repository returned a nonzero return code.

User Response: Follow your local procedures for gathering information and reporting problems.

0022-162 Attention problem adding of starting partition sensitive subsystems using **syspar_ctrl** for syspar.

Explanation: The attempt to add or start one or more of the partition sensitive subsystems controlled by the Syspar Controller (**syspar_ctrl**) in the specified system partition returned a nonzero return code.

User Response: If necessary, correct the error and run **syspar_ctrl -A** again for the specified syspar.

0022-163 The value *frame_number* entered in the frame list following the -I flag is not a valid frame number.

Explanation: The value specified above was entered as a frame number in the comma separated list of frames following the -I flag. It is not a numeric value and is therefore not a valid value for a frame number.

User Response: Reissue the command with appropriate frame numbers.

0022-164 Error creating hr daemon for
system_partition; rc= return_code.

Explanation: The attempt to create the **host_responds** daemon for the specified system partition returned a nonzero return code.

User Response: Restore the System Data Repository using **spstore_config**; correct the **host_responds** problem (see the supplied return code), and apply the system partition configuration layout again.

0022-165 **Error starting hr daemon for**
system_partition; rc= return_code.

Explanation: The attempt to start the **host_responds** daemon for the specified system partition returned a nonzero return code.

User Response: Restore the System Data Repository using **spstore_config**; correct the **host_responds** problem (see the supplied return code), and apply the system partition configuration layout again.

0022-166 **Error updating SP object in SDR; rc=**
return_code.

Explanation: The attempt to update the SP object in the System Data Repository returned a nonzero return code.

User Response: Use **spstore_config** to restore the system from a valid archive and try the operation again.

0022-167 **Error running partitionVSDdata; rc=**
return_code.

Explanation: The command **partitionVSDdata** returned a nonzero return code.

User Response: Refer to IBM Virtual Shared Disk documentation in *PSSP: Administration Guide* to determine corrective action.

0022-168 **Error removing syspar:**
system_partition; rc= return_code.

Explanation: The attempt to remove an existing system partition from the System Data Repository was not successful.

User Response: Gather information about the error and follow local problem solving procedures.

0022-169 **Error retrieving Switch class from**
SDR; rc= return_code.

Explanation: The return code from **SDRGetObjects -G -x Switch** was nonzero.

User Response: Gather information about the error and follow local problem solving procedures.

0022-170 **Error in Eprimary for system partition:**
system_partition; rc= return_code.

Explanation: The **Eprimary** command returned a nonzero return code.

User Response: Correct the problem and issue the **Eprimary** command again in the stated system partition.

0022-171 **Error in Eannotator for system**
partition: system_partition; rc=
return_code.

Explanation: The **Eannotator** command returned a nonzero return code.

User Response: Correct the problem and issue the **Eannotator** command again in the stated system partition.

0022-172 **Error in Etopology for system partition:**
system_partition; rc= return_code.

Explanation: The **Etopology** command returned a nonzero return code.

User Response: Correct the problem and issue the **Etopology** command again in the stated system partition.

0022-173 **Error from spverify_config; rc=**
return_code.

Explanation: A mismatch between the system partition configuration data and the System Data Repository data has been detected.

User Response: Use **spstore_config** to restore the system from a valid archive and try the operation again.

0022-174 **Missing, incorrect, out of order, or**
wrong number of arguments.

Explanation: The command syntax has not been followed.

User Response: Enter the command again with the correct syntax.

0022-175 **Internal SDR error detected**
(spchk_syspars); rc= return_code.

Explanation: An internal consistency error in the system partitioning data has been detected.

User Response: Use **spstore_config** to restore the system from a valid archive and try the operation again.

0022-176 **Mismatch in PSSP level between**
boot/install server and client node
node_number.

Explanation: The PSSP code level of the boot server is incompatible with the PSSP code level of the client node.

User Response: Assign the node to the appropriate boot server, and run **spbootins** again.

0022-177 You can only set the *ntp_server* value to `\V` if the *ntp_config* value is consensus or none.

Explanation: An attempt was made to *ntp_server* value to `""` when the *ntp_config* value was not "consensus" or "none".

User Response: Rerun the command with the correct values for *ntp_server* and *ntp_config*

0022-178 If *ntp_config* is consensus *ntp_server* must be set to `\V\n` to set *ntp_config* to something other than `""`

Explanation: An attempt was made to set *ntp_config* to something other than `""` when *ntp_config* was "consensus".

User Response: Rerun the command with the correct values for *ntp_server* and *ntp_config*

0022-179 An invalid frame count has been specified.

Explanation: The frame count specified in the command line for this command is incorrect. It must be numeric. It must be greater than or equal to 1, and less than or equal to 250.

User Response: Issue the command again with a valid frame count.

0022-180 Could not open *system partition directory customization_file*.

Explanation: The customization file for the specified system partition directory could not be opened.

User Response: This file must have existed in order to apply the current system partition configuration. Determine if the file has been deleted or moved. The destruction of this file does not affect the function of the current system partition configuration.

0022-181 Customization file contains incorrect stanza: File: *syspar_directory*, *custom_file* Stanza: *stanza*.

Explanation: The customization file in the specified system partition directory contains a stanza value which is not valid.

User Response: This file must have been valid in order to apply the current system partition Configuration. The file must have been modified since then. Do not edit this file directly, use the `spcustomize_syspar` command to make changes.

0022-182 Could not open nodelist file *system_partition_directory*, *nodelist file*.

Explanation: The attempt to open the nodelist file for the specified system partition was not successful.

User Response: This file must have existed in order to apply the current System Partition Configuration. Determine if the file has been deleted or moved.

0022-183 SDR Syspar, Customization file mismatch.

Explanation: The customization file in the specified system partition directory disagrees with the information in the System Data Repository.

User Response: Has this System Partition been customized since the System Partition Configuration was last applied? That would cause this error. Use `spapply_config` to apply these latest changes or run `sprestore_config` to restore a previous configuration.

0022-184 SDR Syspar_map, Nodelist file mismatch.

Explanation: The System Data Repository Syspar_map does not agree with the Nodelist information in the current system partition configuration layout.

User Response: Either customize and apply a new system partition configuration or use `sprestore_config` to restore the system from a valid archive.

0022-185 Internal SDR error detected (`spchk_syspars`); `rc= return_code`.

Explanation: An internal consistency error in the system partitioning data has been detected.

User Response: Use `sprestore_config` to restore the system from a valid archive.

0022-186 A frame to be deleted contains a node outside of the current system partition.

Explanation: At least one of the frames that you have specified for deletion contains at least one node that is not a member of the current system partition.

User Response: Ensure that you have specified the correct frame (or frames) for deletion.

0022-187 Missing, incorrect, out of order, or wrong number of arguments.

Explanation: The command was entered with incorrect syntax.

User Response: Enter the command again with the correct syntax.

0022-188 **Attention: problem cleaning up after old partition sensitive subsystems using `syspar_ctrl`; `rc=return_code`.**

Explanation: The attempt to stop or remove one or more of the partition sensitive subsystems controlled by the Syspar Controller (`syspar_ctrl`) returned a nonzero return code.

User Response: If necessary, correct the error and run `syspar_ctrl -c`, then `syspar_ctrl -A -G`.

0022-189 **Attention: problem adding or starting partition sensitive subsystems using `syspar_ctrl`; `rc=return_code`.**

Explanation: The attempt to add or start one or more of the partition sensitive subsystems controlled by the Syspar Controller (`syspar_ctrl`) returned a nonzero return code.

User Response: If necessary, correct the error and run `syspar_ctrl -A -G`.

0022-190 **The command entered is missing arguments, contains incorrect arguments, contains arguments in the wrong order, or contains a wrong number of arguments.**

Explanation: The command was issued with incorrect syntax.

User Response: Issue the command again with the correct syntax.

0022-191 **Options must precede the path operand.**

Explanation: A path operand has been specified prior to one or more optional parameters.

User Response: Path operand must be specified as the last parameter, following all the optional parameters. Enter the command again with the correct syntax.

0022-192 **Duplicate `options` options are entered.**

Explanation: The same optional parameter has been entered more than once in the command.

User Response: Enter the command again with the correct syntax.

0022-193 **Data value is missing for the option `data_option`.**

Explanation: A data value is not provided for a specified optional parameter.

User Response: Enter the command again with the correct syntax.

0022-194 **The value, `value`, specified for the option, `option`, is not valid.**

Explanation: A data value that is not valid has been provided for a specified optional parameter.

User Response: Enter the command again with valid data values.

0022-195 **The path operand is not provided or the data value for an optional parameter is missing.**

Explanation: Either the path operand is not provided as required or an optional parameter is entered with no value specified.

User Response: Enter the command again with the required path operand and the data values for all the optional parameters specified.

0022-196 **Custom file does not exist. To create a custom file, issue the command with `-n` and `-l` options.**

Explanation: The custom file on the system partition directory specified was requested to be displayed or modified, but does not exist. The custom file must be created before it can be displayed or modified.

User Response: To create a custom file, issue the command again specifying `-n` and `-l` with appropriate data values. Other optional parameters may be provided at the same time.

0022-197 **The primary node provided is not in the system partition specified.**

Explanation: The primary node provided is not in the nodelist of the system partition directory specified.

User Response: Issue the command with a valid node number in the system partition.

0022-198 **Cannot locate system partition information directory.**

Explanation: System partition information directory cannot be successfully located due to the error of an internal call to `locate_syspar_configs` command.

User Response: The command `SDRGetObjects` should be in the directory `/usr/lpp/ssp/bin`. If not, follow your local procedures for problem resolution.

0022-199 **The current hardware configuration cannot be partitioned.**

Explanation: An error was received returning from an internal System Data Repository call. The error indicates that the system partition information directory cannot be located due to a hardware configuration that cannot be partitioned.

User Response: The system with its current hardware configuration cannot be partitioned. Evaluate your hardware configuration and your partitioning decision.

0022-200 **Cannot locate system partition information directory - return code = *return_code*.**

Explanation: The system partition information directory cannot be successfully located due to the error of an internal call to the `locate_syspar_configs` command.

User Response: The most likely reason for `locate_syspar_configs` to fail is because the System Data Repository is unreachable. You should check the `SP_NAME` variable (print `$SP_NAME`) to ensure that it specifies a valid partition. After checking this variable, follow your local procedures for problem resolution.

0022-201 **The system partition directory *system_partition_directory* does not exist or cannot be opened.**

Explanation: The command was not successful to open the system partition directory.

User Response: Verify the existence of the directory and its access authority.

0022-202 **The directory specified is not a system partition directory.**

Explanation: The directory specified on the input is not a system partition directory.

User Response: Enter the command again with a system partition directory name.

0022-203 **Attention: The nodelist file or the topology file is not found on the directory specified.**

Explanation: This check is to warn users who may supply a legal system partition directory name which may not be an actual system partition directory. In a system partition directory there should always exist a nodelist file and a topology file for the system partition.

User Response: Ensure that the input directory name is a system partition directory name.

0022-204 **The directory *directory* does not exist or cannot be opened.**

Explanation: The command was not successful to open the directory.

User Response: Verify the existence of the directory and its access authority.

0022-205 **Attention: The default *install_image* specified is not found at the directory *install_image_directory*.**

Explanation: The specified default install image could not be found in the directory `/spdata/sys1/install/images`.

User Response: Ensure that the specified default install image is available on the bootserver.

0022-206 **The default *install_image* specified is not found in the directory *install_image_directory*.**

Explanation: The specified default install image could not be found in the directory `/spdata/sys1/install/images`.

User Response: Ensure that the install image is in the directory or select an image that is in the directory.

0022-207 **Cannot open *file name* for reading.**

Explanation: The file cannot be opened for reading.

User Response: Determine why the file cannot be opened. Ensure that the file exists and has appropriate access authority. Issue the command again after the problem is resolved.

0022-208 **Cannot execute host command on *host*.**

Explanation: An internal call to the `host` command was not successful.

User Response: Determine why the `host` command is not working and try the command again.

0022-209 **The *syspar_name* or *IP_address* specified by the `-n` option is invalid or cannot be resolved.**

Explanation: The `syspar_name` or `IP_address` specified with `-n` option cannot be identified on the system due to input which is not valid or error in name resolution.

User Response: Check whether the input is a valid `syspar_name` or `IP_address`. If valid and a nameserver is not used, add the system partition name and its IP address to `/etc/hosts` for name resolution.

0022-210 **Cannot identify the interface for the host *host_address*.**

Explanation: Cannot identify an interface for the host on which the command is executed.

User Response: Run the command `netstat -rn` to verify if an interface is identified for the host. The network is required to be properly configured for the

system partitioning. Refer to the SP administration guide and the system planning guide for more information.

0022-211 **The syspar-name/IP-address specified is not configured to the same adapter as the default partition interface.**

Explanation: The default system partition interface and the system partition name and IP address must match.

User Response: Fix the mismatch.

0022-212 **Cannot open *custom_file_name* for writing.**

Explanation: The custom file cannot be opened for writing.

User Response: Determine why the file cannot be opened. Ensure that the file exists with appropriate access authority. Issue the command again after the problem is resolved.

0022-213 **Cannot open *PSSP_level_code_file_name* for reading.**

Explanation: The file containing valid PSSP level codes cannot be opened for reading.

User Response: Verify if the file exists with appropriate access authority. Contact system administrator if it does not. The file must exist on the system.

0022-214 **Invalid level code is provided. Valid level codes are:**

Explanation: The PSSP level code specified is not a valid level code.

User Response: Enter the command again with a valid PSSP level code.

0022-215 **Cannot access Syspar_map for node numbers.**

Explanation: No node map has been generated from an internal System Data Repository call, **SDRGetObjects Syspar_map**.

User Response: Determine the problem with the System Data Repository call, correct it, and issue the command again.

0022-216 **Attention: The install_image_name specified is not found at the directory *image_directory*.**

Explanation: The installation image could not be found in the directory **/spdata/sys1/install/images**.

User Response: Ensure that the install image is available on the bootserver.

0022-217 **The install_image_name specified is not found at the directory *image_directory*.**

Explanation: The installation image could not be found in the directory **/spdata/sys1/install/images**. For PSSP 2.1 or later system partition, the install image must be in the directory.

User Response: Ensure that the install image is in the directory, or select an image that is in the directory.

0022-218 **Requested files do not exist on the system directory.**

Explanation: The contents of **custom**, **nodelist**, or **layout.desc** files have been requested for display. Because the command was issued without a directory name, the system directory is used as default. However, the system directory does not have any of the requested files.

User Response: Issue the command again either with a directory name or **-R** option, or both.

0022-219 **Requested file(s) does not exist on the directory specified.**

Explanation: For the directory specified (or all the levels below if **-R** is specified), none of the requested files can be found. For example, a **-d** option issued for a non-layout directory; an **-n** or **-c** option issued for a non-partition directory.

User Response: Issue the command again with matching option and directory. For example, **-d** for a layout directory, **-n** or **-c** for a system partition directory.

0022-220 **The syspar-name/IP-address specified in *syspar/custom-file* is not configured to the same adapter as the default partition interface.**

Explanation: A mismatch between the adapter of the syspar-name/IP-address specified in the custom file and the host on which the command is being executed.

User Response: The network is required to be configured properly for system partitioning. Refer to the SP administration guide and the system planning guide for more information.

0022-221 **The syspar-name or IP-address in the custom file *custom_file_name* is invalid or cannot be resolved.**

Explanation: The syspar-name or IP-address specified in the custom file cannot be identified on the

system either because the value is not valid or the name cannot be resolved.

User Response: Customize the system partition again with a valid system partition name or IP address, and apply the system partition configuration layout again.

0022-222 **The file *file name* is missing.**

Explanation: A file expected in the directory is missing.

User Response: Determine why the file is missing, restore the file on the directory and issue the command again.

0022-223 **The primary_backup_node provided is not in the system partition specified.**

Explanation: The primary backup node provided is not in the nodelist of the system partition directory specified.

User Response: Issue the command with a valid node number in the system partition.

0022-224 **A primary_backup_node is not supported on a switchless system or on the current hardware configuration.**

Explanation: The current switch hardware does not support primary_backup_nodes. Switchless systems cannot have primary backup nodes.

User Response: Evaluate your switch hardware.

0022-225 *operand string is an invalid operand.*

Explanation: The operand string could not be parsed.

User Response: Enter the command again with the correct syntax.

0022-226 **Could not resolve node group *node_group*.**

Explanation: Specified node group could not be resolved.

User Response: Use the nglst command to see if the desired node group exists.

0022-227 **-I and -N are incompatible options.**

Explanation: Incompatible options were given.

User Response: Enter the command again with the correct syntax.

0022-228 **An incorrect number of system partitions was detected. There must be only one partition defined in the system when deleting a frame.**

Explanation: To aid in the reconfiguration of the system after deleting a frame, it is necessary that there be only one partition defined.

User Response: Delete all but one partition, making sure that all of the nodes from the other partitions are now included in this single partition. Issue the **spdelfram** command, and then add your partitions as appropriate.

0022-229 **The starting frame and frame count must not yield a frame with a frame number greater than 250.**

Explanation: The sum of the starting frame number and the frame count must not exceed 250.

User Response: Issue the command again, with valid a starting frame number and frame count that meet this criteria.

0022-230 **Error could not open syspar - controller subsystem file: *file_name*.**

Explanation: You must have the necessary file permissions to read the specified file if you use the **syspar_ctrl** command.

User Response: Check the file permissions. Verify that you are using a userid with the necessary file permissions.

0022-231 **File *filename* must contain required line as the first line of the file.**

Explanation: The syspar controller subsystems file is required to contain unique subsystem name - control script pairs. This file may have been inappropriately edited.

User Response: Restore the proper file.

0022-232 **Error file *file_name* contains duplicate subsystem name *subsystem_name*.**

Explanation: The syspar controller subsystems file is required to contain a unique subsystem name - control script pair. This file may have been inappropriately edited.

User Response: Restore the proper file.

0022-233 **SP_NAME=** *system_partition_name*
subsystem_ctrl_script_name
subsystem_ctrl_script_options returned
with a unsuccessful return code, rc =
return_code.

Explanation: The call to the specified subsystem's control script for the specified system partition returned with a nonzero return code.

User Response: Fix the problem and run the failing subsystem command.

0022-234 *macro_command_name_and_option*
failed!, calls to underlying control
scripts returned with bad return codes.

Explanation: The specified entry in the syspar controller subsystems file is not valid. It may have been inappropriately edited.

User Response: Restore the proper file.

0022-235 Invalid subsystem *subsystem_name*
run: **syspar_ctrl -E** for a list of valid
subsystem names.

Explanation: The specified subsystem name is not valid and is not the name of a subsystem supported through the syspar controller.

User Response: To get a list of the subsystem names supported through the syspar controller, run the **syspar_ctrl** command with the **-E** option. Then run the **syspar_ctrl** command specifying one of these valid subsystem names.

0022-236 Attention, The Syspar Controller
subsystems file contains the following
incorrect entry:

Explanation: The Syspar Controller subsystems file is read to determine what subsystems and control scripts the Syspar Controller will be controlling. If an entry which is not valid is found in this file, it will be skipped and a message will be issued.

User Response: The Syspar Controller subsystems file should only contain valid entries at the time it was shipped. Run **syspar_ctrl -E** to verify that the Syspar Controller is controlling the correct partition sensitive subsystems. If not, report this problem to the IBM Support Center.

0022-237 Invalid PSSP code level supplied with
"-p" option.

Explanation: The value specified with the "-p" option was not a valid PSSP level (PSSP-1.2, PSSP-2.1, PSSP-2.2).

User Response: Enter the command with a valid PSSP level.

0022-238 The SDR can not be accessed. The
return code from trying to access the
SDR was *return_code*.

Explanation: The routine could not access the System Data Repository. The routine halts.

User Response: Review the error messages from the failed command, correct the problem and issue the command again.

0022-239 Error checking PSSP level of
Nodes/Syspar (rc= *return_code*).

Explanation: The "SDRGetObjects" command returned a non-zero return code.

User Response: Follow standard problem resolution procedures.

0022-240 Syspar PSSP level not adjusted (PSSP
level unset for one or more Nodes).

Explanation: One or more nodes in the system partition were found to have a null PSSP code level value. As a result the Syspar object's PSSP code level value was properly set and may be incorrect.

User Response: Use the "spbootins -p PSSP-level" command to set the PSSP level for the unset nodes. When all nodes have been assigned a PSSP level the Syspar object's PSSP code level will be correctly set.

0022-241 Error setting PSSP level of Syspar (rc=
return_code).

Explanation: The "SDRChangeAttrValues" command returned a non-zero return code.

User Response: Follow standard problem resolution procedures.

0022-242 Error retrieving Switch class from
SDR; rc=
return_code_from_SDRGetObjects.

Explanation: The **SDRGetObjects -G Switch switch_number==1 switch_name** command returned a nonzero return code.

User Response: Follow standard problem resolution procedures.

0022-243 Unable to issue setup_server on node
node_number because host responds is
0.

Explanation: Cannot issue a remote command to the target node because host responds is 0.

User Response: Correct the host responds problem and reissue the **setup_server** command.

0022-244 **Print Management Configuration has been selected but support for this service has been withdrawn.**

Explanation: All of the nodes are at a PSSP code version which no longer supports Print Management System. Only nodes with a PSSP code version prior to PSSP 2.3 are supported.

User Response: Enter the command and specify false for Print Management Configuration.

0022-245 **The splogd subsystem is not active.**

Explanation: The splogd subsystem is not currently running. "lssrc -s splogd" did not return active.

User Response: Correct any problems with the splogd subsystem and start it using startsrc -s splogd.

0022-246 **Missing one or more Flags**

Explanation: When issuing this command, one or more flags are required. If you are defining a new object, then the flags which are required will be listed. If you are changing an existing object, then you must specify at least one flag.

User Response: Refer to the error messages that follow or the usage message to determine which flags are missing.

0022-247 **Missing Flag, the *flag* flag is missing.**

Explanation: The flag specified is a required flag for this command.

User Response: Enter the command including the required flag.

0022-248 **Invalid *hostname* or *address*, the *flag* flag specified the *hostname* or *address* which could not be resolved.**

Explanation: The flag specified contained a value which did not pass name resolution. This flag requires a parameter which can be resolved using the name service which is configured.

User Response: Enter the command and specify a parameter for this flag that the domain name service can resolve.

0022-249 **Invalid node number, the node number *node_number* specified is not a valid node number for the system partition *system partition*.**

Explanation: The node number was not found in the system partition.

User Response: Set the SP_NAME environment variable to the system partition containing the node

number and enter the command.

0022-250 **Invalid node number, a standard node already exists for node number *node_number*.**

Explanation: There is already a standard node with the node number specified. The node number specified must be an unused node number.

User Response: Enter the command and specify a valid node number.

0022-251 **SDR update failed to update the SDR for SDR class object *node_number* with attributes *attributes*, the return code was *return code*.**

Explanation: A request to update the System Data Repository was not successful. The **SDRChangeAttrValues** command for the specified System Data Repository object was not successful.

User Response: Use the **splst_nodes** command to verify that the System Data Repository contains the specified object. Check to make sure that the System Data Repository is available and then enter the command.

0022-252 **SDR query failed for the frame number *frame_number* failed with a return code of *return code*.**

Explanation: The **SDRGetObjects** command for the specified frame number was not successful. This query is being made to check that the frame where this extension node definition would reside, exists.

User Response: Enter the command again and specify an unused node in the existing system.

0022-253 **SDR_config failed while attempting to configure the dependent node for frame number *frame_number* and slot number *slot_number* with a return code of *return code*.**

Explanation: The **SDR_config** command was not successful. This command is issued internally to define the System Data Repository dependent node object and update the switch attributes.

User Response: The **SDR_config** command should not normally be issued manually. You may issue the **/usr/lpp/ssp/install/bin/SDR_config -v -d -e <frame number>:<slot number>: 99** command to see what actions the **SDR_config** command will take to configure the dependent node without actually updating the System Data Repository.

0022-254 **Improper Usage, you must specify an option or a valid combination of options.**

Explanation: The option or combination of options passed to the command was either an unsupported option or a combination of options which was not valid.

User Response: Refer to the Usage statement which lists the valid options.

0022-255 **Improper Usage, you must specify an option or a valid combination of options.**

Explanation: The option or combination of options passed to endenode was either an unsupported option or a combination of options which were not valid.

User Response: Refer to the Usage statement which lists the valid options.

0022-256 **Invalid Format, the *flag* flag contains value which is an invalid format for an IP address or netmask**

Explanation: The flag specifies an IP address or netmask and the argument passed is not of the format *#.#.#.3.*, where *#* is one of three digits.

User Response: Enter the command with the correct syntax.

0022-257 **SDRCreateObjects failed to create the SDR dependent adapter for node number *node_number* with attributes *attribute*, the return code was *return code*.**

Explanation: The **SDRCreateObjects** command for the specified node number was not successful.

User Response: Check to make sure that the System Data Repository is available and then enter the command.

0022-258 **Extension node number *node_number* not found.**

Explanation: The node number specified did not represent a valid extension node.

User Response: Enter the command specifying the node number of the extension node to be removed.

0022-259 **SDRDeleteObjects failed to delete the SDR *SDR Class* for node number *node_number*, the return code was *return code*.**

Explanation: The **SDRDeleteObjects** command for the specified node number was not successful.

User Response: Check to make sure that the System Data Repository is available and then enter the command.

0022-260 **Extension adapter number *node_number* not found.**

Explanation: The node number specified did not represent a valid Extension adapter.

User Response: Enter the command specifying the node number of the extension adapter to be removed.

0022-261 **SDRDeleteObjects failed to delete the SDR DependentAdapter for node number *node number*, the return code was *return code*.**

Explanation: The **SDRDeleteObjects** commands for the specified node number was not successful.

User Response: Check to make sure that the System Data Repository is available and then enter the command.

0022-262 **The command must be run on the active control workstation.**

Explanation: The command was not run on the active control workstation. It may not be run on a node or an inactive control workstation.

User Response: Rerun the command on the active control workstation.

0022-263 **The command *command name* failed with return code: *return code*.**

Explanation: The specified command was not successful with the specified return code.

User Response: Determine the reason for the error, resolve the problem, and enter the original command.

0022-264 **Unable to determine the system partition.**

Explanation: The routine was not able to determine the system partition.

User Response: Refer to the previous error message to determine the error and the appropriate action.

0022-265 **This command may only be issued on the control workstation.**

Explanation: The command issued may only be run on the control workstation.

User Response: Login to the control workstation and enter the command.

0022-266 **The extension node identifier, *extension node identifier*, already exists for the extension node *node number*.**

Explanation: The extension node identifier must be unique for the SNMP Agent which is associated with this extension node.

User Response: Review the extension node identifier information for the two extension nodes involved. Once you have determined which extension node definition is in error, enter the **endefnode** command and specify the appropriate extension node identifier. It is also possible that you have specified the wrong SNMP Agent.

0022-267 **Error accessing the syspar directory object of the system data repository. Return code was *return code*.**

Explanation: The specified program attempted to do an SDRGetObjects Syspar syspar_dir, and was not successful with the specified return code.

User Response: Determine what is wrong with your system data repository, fix that problem, then enter the original command.

0022-268 **Unable to update *pathname of directory where custom file should reside* custom file with the new PSSP level, PSSP level with which the program was trying to update the custom file. Processing continues.**

Explanation: The specified program attempted to update the syspar's "custom file", but was unable to.

User Response: Ensure that a "custom" file exists. If it does not, determine why. If it does, manually run /usr/lpp/ssp/bin/spcustomize_syspar to update it with the new syspar PSSP level.

0022-269 **Node number *node_number* specified is invalid.**

Explanation: The extension node number specified is not the first unused node number in the Syspar_map. The use of the LC8 requires that switch ports be used in sequentially. This restriction requires the node number to be the first unused node number in the Syspar_map.

User Response: Repeat the command using the node number recommended.

0022-270 **Node *node number* resides in a SAMI frame and therefore may not be deleted with this command. You must use the **spdelfram** command.**

Explanation: The specified node resides in a non-SP frame whose hardware protocol is not **SP**. Since it is the only node in the frame, and it does not make sense for

an empty frame object to remain, the **spdelfram** command must be used to delete this frame/node.

User Response: If this node was part of a node list input to **spdelnode**, reenter the **spdelnode** command, eliminating this non-SP node from the list. Use the **spdelfram** command to delete the non-SP frame and node.

0022-271 **Frame *frame number* can not be deleted since node *node number*, which is not targeted for deletion, is using a switch node number from frame *frame number*.**

Explanation: Whether or not the system contains switches, all nodes have an associated switch node number. The problem encountered here is that a node outside of a frame targeted for deletion has a switch node number within the range of switch node numbers on a frame that is targeted for deletion.

User Response: Either delete the node specified, or do not delete the frame specified. An SP node may be deleted by using the **spdelnode** command. A non-SP node may be deleted by using the **spdelfram** command. To exclude the frame specified in this message, issue the **spdelfram** command, excluding the specified frame number from the list.

0022-272 **You must specify the *missing flag* flag with the hardware protocol **hardware protocol**.**

Explanation: You did not specify the indicated flag. It is required for the hardware protocol you have chosen for this frame definition.

User Response: Verify that you are specifying the correct hardware protocol for this frame. Reenter the command with the required flag.

0022-273 **You have specified an invalid **s1** tty port *invalid value for port*.**

Explanation: The value passed for the s1 tty port was not valid. Either there is no such device file or the file is not a character special file.

User Response: Correct the value for the **-s** flag and reenter the command.

0022-274 **When using the **-s** flag to specify an **s1** tty port, the frame count must be one.**

Explanation: You used the **-s** flag to specify a value for the s1 tty port, and the frame count was not equal to one.

User Response: Reenter the command either specifying the frame count equal to one or excluding the **-s** flag.

0022-275 An invalid s1 tty port has been encountered, *invalid s1 tty value*.

Explanation: The character special file for the input or calculated s1 tty either did not exist or was not a character special file.

User Response: Reenter the command with a valid s1 tty number, or ensure that the next tty number in sequence is valid.

0022-276 You have specified an unsupported hardware protocol, *unsupported protocol*.

Explanation: You specified an unsupported hardware protocol. When using the command line, you used the **-p** flag. When defining SP-frames, you may not specify a hardware protocol.

User Response: Reenter the command with a supported hardware protocol. If you were defining a non-SP frame, do not specify a hardware protocol.

0022-277 You may not change the hardware protocol of an existing frame using the **spframe** command.

Explanation: You have specified a new value for a frame attribute that is different from the value currently defined for this frame. You may not change this attribute using the **spframe** command.

User Response: Reenter the command with the existing attribute value.

If you wish to change the value of this attribute, you must first delete the frame (which will also delete all the nodes on that frame), and define the frame with the new attribute value using the **spframe** command.

0022-278 A problem with the **/etc/switch.info** file has been encountered. Unable to proceed.

Explanation: The **/etc/switch.info** file should contain one entry for every non-SP frame defined. It may also contain customization entries. The entries in the file may be in one of two formats:

- node_number switch_port_number
- frame, slot switch_port_number

The **/etc/switch.info** file had one of the following errors:

- It contains an entry that has a different switch_port_number associated with it than the one entered with the **-n** flag of the **spframe** command.
- It contains duplicate entries for the node (or frame/slot) that you are trying to define with the **spframe** command.

User Response: Determine what is wrong with

/etc/switch.info. Correct the file and reenter the **spframe** command.

0022-279 switch_responds is 1 for node *node id*, and Node Objects will not be deleted unless switch_responds is 0 for all nodes to be deleted.

Explanation: The **switch_responds** indication in the System Data Repository is 1, indicating that the node is still part of the SP switch configuration.

To ensure that this node is not being used in any switch operations, **switch_responds** must be 0 before the node is deleted.

User Response: If you have not already done so, power off the node. This will cause **host_responds** to go from 1 to 0. **host_responds** becoming 0 will cause switch recovery to take the node off of the switch, thus causing **switch_responds** to become 0.

If you have already powered the node off, there may be a delay of up to 7.5 minutes before **switch_responds** becomes 0. Wait until **switch_responds** becomes 0, then reenter the **spdelnode** command.

0022-280 Internal error detected (**spsetauth -p -d**) *rc= return code*.

Explanation: An internal error while running **spsetauth** has been detected.

User Response: Run **spsetauth** to determine the cause of the error.

0022-281 Internal error detected (**-c -p**) *rc= return_code*.

Explanation: An internal error while running **chauthpar** and **chauthpts** has been detected.

User Response: Run **chauthpar/chauthpts** from the command line to determine the error.

0022-282 The *flag* flag is not valid for the hardware protocol **hardware protocol**.

Explanation: You have specified a flag that is not valid for the indicated hardware protocol for this **spframe** command.

User Response: Verify the usage of your command and use the correct flags for the hardware protocol of the frame that you are defining. Reenter the **spframe** command using the correct syntax.

0022-283 If you specify the **-o** flag, the total node count must be 1.

Explanation: The **-o** flag was given and more than 1 node was targeted.

User Response: Enter the command with a single node as the target.

0022-284 **The additional IP address *IP_address* could not be resolved.**

Explanation: The IP address given with the -o flag could not be resolved.

User Response: Correct the name resolution of the IP address or specify a valid IP address and enter the command.

0022-285 **An invalid hardware address was found in the */etc/bootptab.info* file.**

Explanation: Either an incorrect node number or an incorrect hardware address was found in the */etc/bootptab.info* file.

User Response: Correct the incorrect entry in the */etc/bootptab.info* file and reenter the **sphrdwrad** command.

0022-286 **You may not specify the -d flag unless you are specifying an ethernet adapter.**

Explanation: If you are not providing information about the Ethernet adapters, you may not specify the -d flag.

User Response: Enter the command again with the correct syntax.

0022-287 **You may not specify the -f flag unless you are specifying an ethernet adapter.**

Explanation: If you are not providing information about the Ethernet adapters, you may not specify the -f flag.

User Response: Enter the command again with the correct syntax.

0022-288 **You have specified an invalid value for -d.**

Explanation: The value passed with the -d flag is not valid.

User Response: Correct the value and enter the command again.

0022-289 **You have specified an invalid value for -f.**

Explanation: The value passed with the -f flag is not valid.

User Response: Correct the value and enter the command again.

0022-290 **Issuing the command *command name* gave a return code of *return code*. Verify that the **SP_NAME** environment variable is properly set.**

Explanation: A call to either **spget_syspar** or **spist_syspars** is made to get the current system partition name or a list of system partition names.

These two commands may not succeed if contact could not be made with the System Data Repository. If the System Data Repository daemon is up, this problem may be caused by the **SP_NAME** environment variable being set to a system partition name that is not valid.

User Response: Check if the **SP_NAME** environment variable is set to a valid system partition name. Check if you recently repartitioned your system and the **SP_NAME** was set to a system partition name that no longer exists.

After correcting **SP_NAME** or fixing the communication problem with the System Data Repository, enter the **syspar_ctrl** command again.

0022-291 ***switch node number* is not valid *switch node number* for this system or is already in use.**

Explanation: The starting switch port number is not valid, or the next switch port number is out of range of valid switch port numbers for this system, or the switch port number is already used by another node.

User Response: Carefully choose a valid starting switch port number and enter the **spframe** command again. If you are defining more than one non-SP frame, ensure that you have enough sequential switch ports. Also, ensure that all switch port numbers are available and are not being used by other nodes.

0022-292 **You may not specify the starting tty port and the *s1* tty port as the same tty.**

Explanation: You have specified the starting *starting_tty* and the *s1_tty* as the same tty number.

User Response: Determine the tty that you need to use as the *s1* tty and the starting tty, then enter the **spframe** command again using these values.

0022-293 **may not be defined to frame *frame_number*. It is already defined to *frame_number*.**

Explanation: The tty specified on the input line is already defined to the frame indicated.

User Response: Locate an unused tty, then enter the **spframe** command again using that tty as the starting tty or *s1* tty.

0022-294 *port_number* may not be defined to frame *frame number*. It is already defined as the s1 tty port to frame *frame number*.

Explanation: The tty specified on the input line is already defined to the frame indicated as the s1 tty port.

User Response: Locate an unused tty, then reenter the spframe command using that tty as the starting tty or s1 tty.

0022-295 *port_number* may not be defined to frame *frame number* as the s1 tty port. It is already defined to frame *frame number*.

Explanation: The s1 tty specified on the input line or calculated by spframe, is already defined to the frame indicated.

User Response: Locate an unused tty, then enter the spframe command again using that tty as the starting tty or s1 tty or ensure that given the range of frames specified on the command line, the spframe command will have the tty's it will calculate to use available.

0022-296 *port_number* may not be defined to frame *frame number* as the s1 tty port. It is already defined to frame *frame number*.

Explanation: The tty specified on the input line or calculated by the spframe command is already defined as the s1 tty port to the frame indicated.

User Response: Locate an unused tty, then reenter the spframe command using that tty as the starting tty or s1 tty.

0022-297 A flag which is not valid has been specified.

Explanation: A flag passed to the routine was not valid.

User Response: Reissue the command with the correct flags.

0022-298 The internal execution of the *command* command was not successful. The return code from the unsuccessful call was *return code*.

Explanation: The routine issued a command which returned a non-zero return code.

User Response: Review any messages from the failed command. Try to resolve the problem and issue the command again.

0022-299 A starting frame number which is not valid has been specified.

Explanation: A value was passed for the starting frame number which is not valid. The value must be between 1 and 128, inclusive.

User Response: Correct the value and reissue the command.

0022-300 A CSS switch adapter does not exist which can connect node *node number* to the switch in this system.

Explanation: The node specified cannot be connected to your system's switch.

User Response: Verify that you have the correct software level which supports this node's or server's attachment to the switch.

0022-301 No option(s) flags specified.

Explanation: The command spenode had no node number specified with it.

User Response: Refer to PSSP Command and Technical Reference.

0022-302 Invalid Option Specified.

Explanation: The command spenode had option flags that were not valid specified with it.

User Response: Refer to the PSSP Command and Technical Reference.

0022-303 No Node Number Argument was specified with spenode.

Explanation: The command spenode had no node number specified with it.

User Response: Refer to the PSSP Command and Technical Reference.

0022-304 Too many arguments specified with spenode.

Explanation: The command spenode had too many arguments specified with it.

User Response: Refer to the PSSP Command and Technical Reference.

0022-305 Too many arguments and an invalid option was specified with spenode.

Explanation: The command spenode had too many arguments and an option that was not valid.

User Response: Refer to the PSSP Command and Technical Reference.

0022-306 **Too many node numbers specified with sspenode.**

Explanation: The command sspenode had too many node numbers specified.

User Response: Refer to the PSSP Command and Technical Reference.

0022-307 **Usage: sspenode -h help -l "long comment" -s "short comment"**

Explanation: Output usage information.

User Response: Refer to the PSSP Command and Technical Reference.

0022-308 **Invalid NODE NUMBER specified.**

Explanation: User entered a node number that was not valid.

User Response: Refer to the PSSP Command and Technical Reference.

0022-309 **The *flag* flag cannot be used on an SP Switch2 system.**

Explanation: The specified flag cannot be used on an SP Switch2 system.

User Response: Reissue this command without the specified flag.

0022-310 **Could not open file specified with -x flag.**

Explanation: The file containing expansion list numbers could not be opened.

User Response: Verify that the file exists and can be read and enter the command again.

0022-311 **File specified with -x flag must contain one line.**

Explanation: The file containing expansion list numbers contains more than one line of data.

User Response: Change the file to contain the correct syntax and enter the command again.

0022-312 **You have supplied an invalid expansion list.**

Explanation: The expansion list must be a comma-delimited list of expansion numbers.

User Response: Correct the command syntax and enter the command again.

0022-313 **You have supplied an invalid expansion number *expansion number*.**

Explanation: The specified expansion number is not valid for the current system configuration.

User Response: Specify valid expansion numbers and enter the command again.

0022-314 **Expansion to be changed *expansion number* could not be found in repository.**

Explanation: The routine encountered an expansion number which could not be found in the repository. The routine terminates.

User Response: Make sure that you have specified the expansion numbers correctly and that information for the expansions is in the System Data Repository. Correct the expansion numbers and enter the command again.

0022-315 **You have specified an invalid expansion count.**

Explanation: A value was passed for the expansion count which was not valid. The value must be between 1 and 4000, inclusive.

User Response: Correct the value and enter the command again.

0022-316 **Start expansion plus expansion count must not exceed 4001.**

Explanation: The specified expansion count, when added to the calculated start expansion, exceeded 4001. This is not valid.

User Response: Correct either the start frame, start slot, or expansion count, and enter the command again.

0022-320 **One or more Expansion Objects for Node *node number* is currently powered on. The expansion list is *expansion number*. The Node will not be deleted.**

Explanation: The results of the **hmon query** command indicate that one or more of the expansion objects for the specified node is powered on. To keep the data in the System Data Repository consistent, none of the nodes or expansion objects are deleted.

User Response: All expansion objects associated with nodes specified for deletion must be powered off before they are deleted. Power off the expansion objects and enter the command again.

0022-321 *optional parameter and optional parameter are incompatible options.*

Explanation: The two optional parameters may not be specified on the same invocation of this command.

User Response: Enter the command again using the correct syntax.

0022-322 **The Expansion Object *expansion object* is currently powered on. The expansion objects will not be deleted.**

Explanation: The results of the **hmon query** command indicate that the expansion object is powered on. None of the nodes or expansion objects are deleted.

User Response: All expansion objects must be powered off before they are deleted. Power off the expansion objects and enter the command again.

0022-323 **The authentication method cannot be obtained. The return code from trying to obtain the authentication method was *return_code*.**

Explanation: An error was encountered while attempting to query the authentication method. The **Isauthent** command failed with the specified return code.

User Response: Determine what is wrong with the **Isauthent** command, fix the problem, and enter the command again.

0022-324 **The value set for the authentication method is incorrect.**

Explanation: The error was encountered when attempting to validate the authentication method.

User Response: Valid values for the authentication method are DCE and Compatibility. Reset the method using the **chauthts** command, then enter the command again.

0022-325 **If you specify the *-t* flag to be *fiber*, you must also specify *-d* as *full* and *-f* as *1000*.**

Explanation: If the adapter type is set to **fiber**, then the **duplex** must be set to **full** and the speed must be set to **1000**.

User Response: Enter the **spadaptrs** command again with the correct adapter attributes.

0022-326 **The *adapter name* adapter on node *node number* cannot be deleted because the initial hostname of this node is derived from this adapter.**

Explanation: An adapter specified for deletion has been configured with the IP address of the initial hostname of the node indicated.

User Response: Either correct the command's parameters and reissue the command, or change the initial hostname of the node indicated in the message and reissue the command.

0022-327 **If you specify the rate flag *-f* to be *1000*, you must also specify *duplex* to be *full* and the adapter type to be *fiber*.**

Explanation: If the adapter speed is set to **1000**, then the **duplex** must be set to **full** and the adapter type must be set to **fiber**.

User Response: Enter the **spadaptrs** command again with the correct adapter attributes.

0022-328 **You have specified an invalid value for *-c*.**

Explanation: A value was passed with the **-c** flag which is not valid.

User Response: Correct the value and enter the command again.

0022-329 **The *adapter name* adapter on node *node number* cannot be deleted because this node is a primary or primary backup node.**

Explanation: A switch adapter specified for deletion in the specified node range is on a primary node or a primary backup node.

User Response: Either correct the adapter name parameter or the node range and retry the command, or change the primary node or primary backup node and retry the command.

0022-330 **Your request to configure a switch plane of *number of planes requested for configuration* is incorrect. Please check the correct configurations in the usage statement and reenter the *spswplane* command.**

Explanation: You requested an incorrect number of switch planes. The correct values are 1, 2, or 4.

User Response: Enter the **spswplane** command again with the correct number of switch planes.

0022-331 **The number of switch planes is undefined in the repository. An exit will occur.**

Explanation: A search of the repository indicates that the number of switch planes have not been defined.

User Response: Define the number of switch plane attributes and enter the spswplane command with option flag -d.

0022-332 **Your request to configure a switch plane of *number of switch planes requested for configuration* cannot be completed, because *adapter type or css type* is not defined for node number *node_number*.**

Explanation: The request to configure a switch plane could not be completed because either the adapter type "css0, css1" or the css_type "Colony" was not defined in the repository.

User Response: Define these attributes and enter the spswplane command again.

0022-333 **The number of switches defined is *number of switches defined in the SDR*. This will not support a switch plane configuration of *number of switch planes requested for configuration*.**

Explanation: The request to configure a switch plane could not be completed because number of switches defined must be equal to or more than the switch planes defined in the repository.

User Response: Define these attributes and enter the spswplane command again.

0022-334 **ERROR: Global volume group *gvg* from old syspar *old syspar* is concurrent capable and the node *node number* in the server_list is not in syspar *syspar* dropping the Global Volume group *global volume group*.**

Explanation: The global volume group, gvg, is concurrent capable, and has a list of servers but, some of the nodes belong to different new partitions, which is not allowed.

User Response: Make sure all the servers belonging to this gvg are in the same partition.

0022-335 **In the SDR System partition, *system partition name*, SDR attribute name has a value of *value*.**

Explanation: A mismatch has been discovered between the data in the custom file and the data in the System Data Repository for the specified attribute.

User Response: Evaluate your custom file and System Data Repository, correct the mismatch, rerun spverify_config.

0022-336 **In *filename*, SDR attribute name has a value of *value*.**

Explanation: A mismatch has been discovered between the data in the custom file and the data in the System Data Repository for the specified attribute.

User Response: Evaluate your custom file and System Data Repository, correct the mismatch, rerun spverify_config.

0022-337 **In the SDR, Switch Node Number *switch node_number* is in Syspar system partition name.**

Explanation: The Syspar_map shows a node in a different partition than the configuration layout file does.

User Response: Check the Syspar_map and configuration layout file to determine which is in error, correct the mismatch, rerun spverify_config.

0022-338 **In the Configuration Layout file system, Switch Node Number *node_number* is in Syspar system partition name.**

Explanation: The Syspar_map shows a node in a different partition than the configuration layout file does.

User Response: Check the Syspar_map and configuration layout file to determine which is in error, correct the mismatch, rerun spverify_config.

0022-339 **You may not change the switch port number of an existing non-SP frame using the spframe command.**

Explanation: You are attempting to change an existing switch node number with the spframe command, which is prohibited.

User Response: Determine the steps for moving a non-SP frame from one switch port to another.

0022-340 **No command string supplied.**

Explanation: There is no command string specified when invoking the program.

User Response: Specify the command string and enter the program again.

0022-342 The css adapter(s) specified will not be deleted since all nodes must be installed with PSSP-3.4 or later to delete a css adapter. Node *node number* is installed with PSSP code version.

Explanation: Deleting css adapters using the `spdeladap` command is supported only in PSSP 3.4 and later versions.

User Response: Update the version of PSSP to 3.4 or later.

0022-343 An invalid node number, *node_number*, was found in the `/etc/bootptab.info` file.

Explanation: A node number that is invalid was found in the `/etc/bootptab.info` file.

User Response: Correct the entry in the `/etc/bootptab.info` file and enter the `sphrdwrad` command again.

0022-344 The values for the Install field (-i flag) are required to be the union of the values in the Authorization field (-r flag), the Authentication field (-m flag), and the Trusted Services field (-t flag).

Explanation: The set specified by the `—i` flag must contain the union of the `—r`, `—m`, and `—t` flags. The `—i` flag states the method to be set for each node in the partition and, therefore, must contain all the values in the previous flags.

User Response: Check the -i flag. Make sure the union set is specified.

0022-345 There is not a common method between Authorization for AIX Remote Commands (-r flag) and Enablement of AIX Remote Commands (-m flag). There must be at least one method in common.

Explanation: PSSP software must be able to use the AIX Remote commands. Therefore, you must set completely set one method. This requires that you enable an authorization file for a method locally on the host.

User Response: Ensure that there is at least one common method selected for each field.

0022-346 k5 in `auth_methods` requires `dce` to be set in `auth_install`.

Explanation: In order to set Kerberos V5 (k5) as a method for AIX remote command use, "dce" must be set in the `auth_install` attribute for the Syspar class.

User Response: Make sure dce is set in `auth_install`.

0022-347 k4 in `auth_methods` requires k4 to be set in `auth_install`.

Explanation: In order to set Kerberos V4 (k4) as a method for AIX remote command use, "k4" must be set in the `auth_install` attribute for the Syspar class.

User Response: Make sure k4 is set in `auth_install`.

0022-348 `auth_methods` and `ts_auth_methods` must have at least one attribute in common.

Explanation: `auth_methods` and `ts_auth_methods` must have one attribute in common.

User Response: Check the attribute for both and meet the requirements.

0022-349 `spcustomize_syspar` setting in the Trusted Services field (-r flag) requires to be specified for the Install field (-i flag).

Explanation: `dce|k4` in `ts_auth_methods` requires `auth_install` to contain `dce|k4`.

User Response: Set the proper flags.

0022-350 keyfiles not found.

Explanation: `dce` keyfiles were not found.

User Response: Make sure the keyfiles directory contains keyfiles.

0022-351 `chauthts/chauthent` failed. `rc=return_code`.

Explanation: `chauthts/chauthent` command returned a non-zero return code.

User Response: Check the specified flags.

0022-352 This pssp level requires K4 to be installed

Explanation: PSSP level requires k4.

User Response: Make sure k4 is installed and configured.

0022-353 System partitioning is not supported under the current hardware configuration.

Explanation: The system cannot be partitioned due to the configuration of hardware currently on the system.

User Response: The only way to partition this system is to change the system's hardware configuration to one that supports partitioning.

0022-354 **The value, *value*, specified for the stanza name in the custom file stanza in the *filename* file is not valid.**

Explanation: A value that is not in accordance with the rules for data that may be written to the System Data Repository is present in the indicated stanza of the indicated custom file.

User Response: Execute "SDRValidateString" against the value in question to receive more detailed messages describing the problem, then correct the value and enter the spapply_config request again.

0022-355 **The administrative locale specified, *locale*, is not installed on this system.**

Explanation: The language that was specified as the admin locale is not installed on the system.

User Response: Install the requested language OR choose a different locale as the admin locale, then rerun the command.

0022-356 **The administrative locale may not be changed because the SDR contains non-ASCII data.**

Explanation: An attempt was made to change the administrative locale, however the SDR contains non-ASCII data. This is therefore not permitted.

User Response: Run SDRScan to determine which data is in question. Fix the System Data Repository and rerun spsitenv command.

0022-357 **The *SDR_ASCII_only* attribute may not be set to false when the system contains one or more nodes running PSSP-3.1 or earlier.**

Explanation: You cannot set the *SDR_ASCII_only* attribute to false when the system contains one or more nodes running PSSP-3.1 or earlier.

User Response: Upgrade the older nodes and run the command again, or do not attempt to set *SDR_ASCII_only* to false.

0022-358 **The -s flag is required.**

Explanation: A flag passed to the routine was not valid.

User Response: Enter the command again with the correct syntax.

0022-359 **Function *mbstowcs()* unsuccessful.**

Explanation: Conversion routine for wide character support was not successful.

User Response: Examine the converted string in splstdata.

0022-360 **Function *wcswidth()* unsuccessful.**

Explanation: Conversion routine for wide character support was not successful.

User Response: Examine the converted string in splstdata.

0022-361 ***splst_syspars* returned with a non 0 value**

Explanation: *splst_syspars* command returned a non-zero return code.

User Response: Verify the path.

0022-362 ***SDRGetObjects* returned with a non 0 value**

Explanation: *SDRGetObjects* returned a non-zero return code.

User Response: Check the attributes.

0022-363 ***Isauthent* returned with a non 0 value.**

Explanation: *Isauthent* command returned a non-zero return code.

User Response: Verify the path and check the *authent* values.

0022-364 ***SDR_config* returned with a rc of *return_code*. This is a non-fatal error. The switch plane configuration requested will be completed. Please check %3\%\$ for the SDR error information.**

Explanation: The *SDR_config* return code indicates a non-fatal error. The switch plane and System Data Repository configuration will be completed.

User Response: Check the *SDR_config* log file for error information.

0022-365 ***SDR_config* returned a rc of *return_code* which indicates a fatal error occurred. Please check *SDR config log file* for error information. The switch plane configuration request has aborted and will be reset to its prior setting.**

Explanation: The *SDR_config* return code indicates a fatal error.

User Response: Check the *SDR_config* log for error information.

0022-366 SDR_config returned a rc of *return_code* which indicates that a SDR_config lock exists due to a command already in use. The switch plane configuration request has aborted and will be reset to its prior setting.

Explanation: The SDR_config return code indicates the System Data Repository lock is on due to another command already in use.

User Response: Check the SDR_config log for error information.

0022-367 Eprimary failed with a rc of *return_code*.

Explanation: Eprimary returned a return code greater than zero.

User Response: Check the oncoming primary or oncoming backup primary nodes: If they cannot be pinged, or if the switch daemon is not up or if the node is fenced.

0022-368 The correct number of switch planes does not exist node *node_number* and adapter type *adapter_type*.

Explanation: The number of switch planes was incorrect for this node and adapter type.

User Response: Enter the **spsdaptrs** command again.

0022-369 The arp flag input of *value* is incorrect.

Explanation: Switch plane objects are valid only on a system with an SP Switch2 adapter. This requires an arp flag setting of "yes", which is the default.

User Response: Enter the **spadaptrs** command again with the correct arp flag input or do not enter any arp flag data to accept the default.

0022-371 hmmon was unable to retrieve expansion data for frame *frame number*, slot *slot number*.

Explanation: The command **hmmon -GQsv explOPortID frame_num:slot_num** was issued and received a non-zero return code.

User Response: Determine what is wrong with the **hmmon** command. You may issue the above command on the command line.

0022-372 Your request to configure a switch plane of *requested number of plane to config* cannot be completed, because the switch, defined in the SDR, does not support switch plane configuration.

Explanation: The switch name found in the SDR does not support switch plane configuration. The switch name should be SP_Switch2.

User Response: Check the SDR Switch Objects to see if SP Switch2 type switches have been installed.

0022-373 Bad return code, *return code* was received from internally called routine, SDRScan. Unable to proceed.

Explanation: The internal call to the routine SDRScan was not successful, resulting in the return code.

User Response: Determine the problem with the System Data Repository and fix it. Then, enter the command again.

0022-374 *flag* flag is required.

Explanation: The specified flag is required input to this command.

User Response: Run the command with all required flags.

0022-375 An error occurred while setting the restrict_root_rcmd value.

Explanation: An error occurred while attempting to set the restrict_root_rcmd value.

User Response: Check previous error messages for details of the type of error that occurred.

0022-376 The restrict_root_rcmd value cannot be set when one or more nodes are at a back-level release of PSSP.

Explanation: All nodes must be at the PSSP-3.2 code version level or higher in order to use the restricted remote command feature.

User Response: None.

0022-377 The restrict_root_rcmd value cannot be set when VSD is installed on the system.

Explanation: The VSD subsystem is not supported when the secure mode indicator is turned on.

User Response: None.

0022-378 **Attention: The security authorization environment needs to be updated by the administrator when using multiple boot install servers in restricted root remote command mode.**

Explanation: The required access needed to support multiple additional boot install servers is not compatible with the restricted remote command environment.

User Response: If it is necessary to have additional boot servers, the appropriate remote command authorization files will have to be manually updated. See PSSP documentation for further details.

0022-379 **The restrict_root_rcmd value cannot be set when GPFS is installed on the system.**

Explanation: The GPFS subsystem is not supported when the secure mode indicator is turned on.

User Response: None.

0022-380 **There was a non-zero return code from dsh when issuing the *command* command.**

Explanation: The **dsh** command returned a non-zero value which means that the command issued did not run on one or more of the remote nodes

User Response: Determine why **dsh** commands are failing on your system. Check the authentication mechanism.

0022-381 **Issuing the command *command* gave a return code of *return code*.**

Explanation: The program issued a command which returned a non-zero return code.

User Response: Refer to the error messages produced by the command for the cause of the problem and re-issue the command.

0022-382 **An error occurred while setting the *attribute_name* attribute value.**

Explanation: An error occurred while attempting to set the attribute value.

User Response: Refer to the error messages produced by the command for the cause of the problem and reissue the command.

0022-383 **Restricted root remote command mode must be enabled before choosing *secrshell* as a remote command method.**

Explanation: An error occurred while attempting to set the remote command method.

User Response: Set restricted root remote command to true and reissue the command.

0022-384 **Attention: Cannot disable restricted root rcmd mode while (*rcmd_pgm=secrshell*) is chosen as the remote command method.**

Explanation: An error occurred while attempting to set the restricted root rcmd to false.

User Response: Set the remote command method to rsh and then reissue the command.

0022-385 **The current PSSP code version does not support an Aggregate IP Address for *aggregate_list*.**

Explanation: The **spaggip** and **spdelagg** commands cannot be run on PSSP code version prior to PSSP 2.3 for this adapter. Processing continues.

User Response: Issue the command on the appropriate platform.

0022-386 **You have specified an incorrect aggregate IP address *aggregate_name*.**

Explanation: The **spaggip** and **spdelagg** commands will use only a value within the range of "m10" through "m19" for the Aggregate IP virtual adapter.

User Response: Correct the value associated with the **-v** flag and re-enter the command.

0022-387 **The adapter or adapters *aggregate_list* for node *node number* being aggregated under a single IP Address do not exist in the SDR.**

Explanation: The **spaggip** command cannot find the adapter in the SDR that is being aggregated under one IP Address.

User Response: Use the **spadaptrs** command to update the SDR with the proper adapter information and re-issue the **aggip** command.

0022-388 **You did not supply the required aggregate IP list for *aggregate_name*.**

Explanation: The **spaggip** command requires at least one adapter name that is being aggregated under one IP Address.

User Response: Re-issue the **spaggip** command with the **-i** flag and related information.

0022-389 The request to aggregate *aggregate_list* is not supported, on the current switch type.

Explanation: The switch name found in the SDR does not support aggregated IP configurations. The switch name should be SP_Switch2.

User Response: Check the SDR Switch Objects to see if SP_Switch2 type switches have been installed

0022-390 The adapter list is not valid.

Explanation: The adapter list specified is not syntactically correct.

User Response: Re-issue the **spaggip** command with a correct adapter list.

0022-391 The adapter list contains duplicate entries.

Explanation: The adapter list contains more than one adapter of the same name.

User Response: Re-issue the **spaggip** command with a correct adapter list.

0022-392 You may not delete node *node number*. This node has an IBM Virtual Shared Disk Configuration adapter configured. The IBM Virtual Shared Disk Configuration configuration for this node must be removed before the node can be deleted.

Explanation: The node to be deleted has an IBM Virtual Shared Disk adapter configured.

User Response: Remove the node to be deleted from the virtual shared disk Configuration and re-enter the command.

0022-393 *routine_name* routine does not exist or is not executable.

Explanation: An error occurred while attempting to set the attribute.

User Response: Attribute must be an existing executable.

0022-394 An AIX Remote Command Authorization Method must be enabled before choosing rsh as the remote command method. Current setting is none in the *partition_name* partition.

Explanation: An error occurred while attempting to set the remote command method attribute.

User Response: AIX Remote Command Authorization Method must be enabled in the partition named.

0022-395 The IP address *part 1 of IP address*, *part 2 of IP address*, *part 3 of IP address*, *part 4 of IP address* which was to be assigned to adapter *adapter type* on node *node number*, is already being used by adapter *adapter type* on node *node number*.

Explanation: When providing information for the css adapter, the IP address must not be assigned to any other adapters. When providing information for a non-css adapter, the IP address must not be assigned to a css adapter.

User Response: Reenter the **spadaptrs** command with the correct IP address input.

0022-396 The IP address *part 1 of IP address*, *part 2 of IP address*, *part 3 of IP address*, *part 4 of IP address* which was to be assigned to adapter *adapter type* on node *node number*, is already being used as the aggregate IP address on node *node number*.

Explanation: When providing information for an adapter, the IP address must not be assigned as an aggregate IP address.

User Response: Reenter the **spadaptrs** command with the correct IP address input.

0022-397 The aggregate IP address *part 1 of IP address*, *part 2 of IP address*, *part 3 of IP address*, *part 4 of IP address* which was to be assigned on node *node number*, is already being used by adapter *adapter type* on node *node number*.

Explanation: When providing information for an aggregate IP, the IP address must not be assigned to any other adapters.

User Response: Reenter the **spaggip** command with the correct IP address input.

0022-398 The aggregate IP address *part 1 of IP address*, *part 2 of IP address*, *part 3 of IP address*, *part 4 of IP address* which was to be assigned on node *node number*, is already being used as the aggregate IP address on node *node number*.

Explanation: When providing information for an aggregate IP, the IP address must not be assigned to an existing aggregate IP address.

User Response: Reenter the **spaggip** command with the correct IP address input.

0022-399 All nodes must be at code version PSSP 3.4 or greater to set "none" method for "-r" flag.

Explanation: Setting "none" method for Remote Command Authorization (-r flag) is valid only if all nodes in the system are at level PSSP 3.4 or greater.

User Response: Upgrade all nodes to the required level before setting "none" method.

0022-400 The method "none" cannot be set unless "Remote command method" in the "site environment" is set to "secrshell".

Explanation: Setting "none" method for Remote Command Authorization requires "secrshell" be set in the SP Site Environment file.

User Response: Use either the **smitty enter_data** or **spsitenv** commands to modify the "Remote Command Method" (rcmd_pgm) to be "secrshell" and run this command.

0022-401 You can not enable secrshell if the boot install node *node name* is at release level **release of PSSP**.

Explanation: Setting **rcmd_pgm=secrshell** requires that all Boot/Install server nodes be at PSSP-3.4 or later.

User Response: Install PSSP-3.4 or later on the BIS nodes.

0022-402 Frame *frame number* cannot be deleted since node *node number*, which is not targeted for deletion, is using a switch from frame *frame number*.

Explanation: A node outside of a frame targeted for deletion is using a switch in a frame that is targeted for deletion.

User Response: Either delete the node specified, or do not delete the frame specified. An SP system node may be deleted by using the **spdelnode** command. A Non-SP system node may be deleted by using the **spdelfram** command. You may exclude the frame specified in the message by reissuing the **spdelfram** command and excluding the frame number from your list.

0022-403 Adapter type *adapter type* with ethernet rate of *ethernet rate* and with duplex_setting **duplex** is not allowed.

Explanation: You have entered an inappropriate Ethernet rate or duplex values with the corresponding adapter.

User Response: Reissue the **spadaptrs** command

with the correct Ethernet and duplex values.

0022-405 The -n and -p flags are not valid for existing frames.

Explanation: You are attempting to change the starting switch port number or the hardware protocol parameter for an existing frame with the **spframe** command. This is not permitted.

User Response: To change these parameters, it is necessary to run the **spdelfram** command for the affected frames, and rerun the **spframe** command.

0022-406 Issuing the command **hmreinit** was not successful with a return code of *return code*.

Explanation: You attempted to run the **spframe** command with the -r **yes** option, but an error occurred during the invocation of the **hmreinit** command, or a script that **hmreinit** calls.

User Response: Re-issue the **hmreinit** command.

0022-407 You are not allowed to specify both the -a and -P flag.

Explanation: The user gave both the -a and -P flag on the command line for the **sphostnam** command.

User Response: Re-enter the **sphostnam** command with either the -a flag or the -P flag, but not both.

0022-408 There are two adapters with the same physical location code, *physical_location_code* for node *node_number*.

Explanation: There are two adapters with the same physical location code for the same node.

User Response: Delete the adapter for that node, and then add the adapter with the appropriate physical location code information.

0022-409 There is more than one adapter specified as the SPLAN adapter for node *node_number*.

Explanation: The user has more than one adapter as the SPLAN adapter for a node.

User Response: Specify only one adapter as the SPLAN adapter per node in the SDR.

0022-410 You do not have an adapter specified as the SPLAN adapter for node *node_number* in the SDR.

Explanation: The **sphostnam** command uses the SPLAN adapter as the default adapter. Since the user does not have an SPLAN adapter specified, (that is, no

adapter has the SPLAN attribute set to 1), and the user did not specify an `adapter_type` on the command line, the `sphostnam` command cannot continue

User Response: Specify one of the adapters as the SPLAN adapter for the specified node.

0022-411 **Physical location *physical_location_code* does not exist in the SDR.**

Explanation: The user has entered a nonexistent physical location code.

User Response: Reissue the `sphostnam` command with an existing physical location code after the `-P` flag.

0022-412 **Unable to acquire adapter physical location codes for node *node number*.**

Explanation: The routine could not obtain the adapter physical location codes for the indicated node. The routine continues.

User Response: Record the above information and contact the IBM Support Center.

0022-413 **When the default route and the physical location code are both specified, the adapter name must be "en".**

Explanation: When defining the SPLAN adapter by using the default route flag, and by specifying the physical location code, the adapter name must be a short form of the Ethernet adapter type, "en".

User Response: Re-enter the `spadaptrs` command with the correct parameters.

0022-414 **You may not specify a physical location code for non-CHRP nodes. Node *node number* is a node platform node.**

Explanation: The physical location code flag can only be used when defining adapters on CHRP nodes.

User Response: Re-enter the `spadaptrs` command with the correct parameters.

0022-415 **You may not specify a physical location code for nodes installed with PSSP-3.3 or earlier. Node *node number* is installed with *code version*.**

Explanation: The physical location code flag can be used only when defining adapters on nodes installed with PSSP-3.4 or later.

User Response: Re-enter the `spadaptrs` command with the correct parameters.

0022-416 **If the default route option is specified and the node is installed with PSSP-3.3 or older, the adapter name must be "en0". You specified an adapter name of *adapter name* for node *node number*, which is installed with *code version*.**

Explanation: When defining the SPLAN adapter on a node installed with PSSP-3.3 or older, you may only specify "en0" as the adapter name.

User Response: Re-enter the `spadaptrs` command with the correct parameters.

0022-417 **The adapter name, *adapter name*, you specified for node *node number* does not match the adapter type of the same device defined in the SDR.**

Explanation: The adapter you specified already exists in the SDR. The command is unable to update the information for this adapter because the adapter name you specified conflicts with the existing value in the SDR.

User Response: Re-enter the `spadaptrs` command with the correct parameters. To change the type of an adapter, you must first delete the adapter and re-enter the `spadaptrs` command.

0022-418 **The *adapter identifier* adapter on node *node number* cannot be deleted because it is the SPLAN adapter.**

Explanation: The SPLAN adapter may not be deleted.

User Response: Re-enter the command with the correct parameters.

0022-419 **The model number must be 3 characters long.**

Explanation: The model number is expected to be 3 characters long.

User Response: Rerun the `spsitenv` command with a valid model number.

0022-420 **The serial number *serial number* is not valid.**

Explanation: The serial number must be composed of 9 characters with the first 4 digits equal to either "0200" or "5100", and the remaining 5 digits are alphanumeric characters

User Response: Rerun the `spsitenv` command with a valid serial number.

0022-421 **SP_type_model and SP_serial_number must either both be specified, or neither be specified.**

Explanation: Both attributes must have values, or they should be left blank.

User Response: Rerun the **spsitenv** command with the missing values, if they are available, or omit them.

0022-422 **The sphmcmd command was unable to resolve hostname or address from the -i option.**

Explanation: The **spframe** command flag **-i ipaddr** was not resolved by **sphmcmd**.

User Response: Verify that the addresses or hostnames are defined in the Hardware Management Console (HMC) WebSM user interface.

0022-423 **You may not specify a physical location code when defining css adapters.**

Explanation: When defining a css adapter, use the adapter logical name instead of its physical location code.

User Response: Re-enter the command with the correct parameters.

0022-424 **When the default route is specified and the physical location code is not specified, the adapter name must be "en0".**

Explanation: When defining the SPLAN adapter, and the physical location code is not specified, the only allowable adapter name is **en0**.

User Response: Re-enter the command with the correct parameters.

0022-425 **You may not specify a fiber Ethernet adapter as the SPLAN adapter.**

Explanation: The fiber Ethernet adapter is not supported as the SPLAN adapter.

User Response: Re-enter the command with the correct parameters.

0022-426 **The deletion of CSS adapters on SP Switch systems is unsupported. You may only delete CSS adapters on SP Switch2 systems**

Explanation: There was an attempt to delete the CSS adapter on a system with an SP Switch. Since systems with an SP Switch do not support nodes off the switch, you are not allowed to delete the CSS adapter.

User Response: To delete a CSS adapter would require replacement of the SP Switch with an SP Switch2 beforehand.

0022-427 **Deletion of the adapter_type adapter will delete the device_name adapter. Since the initial hostname of node node_number is derived from the device_name adapter, the adapter_type adapter cannot be deleted.**

Explanation: The initial hostname of the node is based on the IP address of the mI0 adapter, and an adapter on that node specified for deletion is the last adapter associated with the mI0 adapter.

User Response: Change the initial hostname of the node indicated in the message using the **sphostnam** command, and then re-enter the **spdeladap** command.

0022-428 **Node node_number does not have an device_name adapter to delete.**

Explanation: The user specified a node which has no mI0 adapter to delete.

User Response: Re-enter the **spdelagg** command with appropriate nodes.

Chapter 8. 0025 - System Data Repository messages

0025-001 **A read only SDR session has been obtained. Operations that create or change data are not allowed.**

Explanation: You tried to change or create an SDR object with a read lock.

User Response: Refer to the appendix on the System Data Repository in *PSSP: Administration Guide* for information on setting authorizations.

0025-002 **Lock could not be obtained. Another process has the class locked.**

Explanation: User tried to update a locked class.

User Response: Try again or issue **SDRWhoHasLock** class to find the process that has the lock. The lock can be cleared with **SDRClearLock** class if the process that owns the lock is gone.

0025-003 **Requestor already has lock on this class.**

Explanation: A lock was requested but you already have a lock on the class.

User Response: None.

0025-004 **Item specified for query, insertion or deletion was not found.**

Explanation: A class, attribute name, or attribute value specified in the command was not found.

User Response: Specify a valid class, attribute name, or attribute value.

0025-005 **Requested operation requires write authority.**

Explanation: The user must have write access to the SDR to do the requested operation.

User Response: On a DCE system, make sure that your principal is a member of the appropriate SDR write access group as defined in the `spsec_defaults` or `spsec_overrides` files. On a non-DCE system, make sure that you are running as root on the control workstation or an SP node.

0025-006 **Requested operation requires admin authority.**

Explanation: The user must have admin access to the SDR to do the requested operation.

User Response: On a DCE system, make sure that your principal is a member of the appropriate SDR admin access group as defined in the `spsec_defaults` or

`spsec_overrides` files. On a non-DCE system, make sure that you are running as root on the control workstation or an SP node.

0025-007 **A write session has been obtained. SDR admin operations will not be allowed.**

Explanation: The user is authorized to do read and write operations.

User Response: If administrative operations are desired, the user's principal must be in the appropriate SDR admin access group as defined in the `spsec_defaults` or `spsec_overrides` file on a DCE system.

0025-008 **Incorrect parameter was passed.**

Explanation: The wrong number of parameters was passed or a parameter was unrecognized.

User Response: Examine the command as issued and correct the problem.

0025-009 **Mutual authentication with the SDR server did not succeed.**

Explanation: The SDR server (`sdrd`) could not be authenticated by DCE. There may be a program posing as the `sdrd`.

User Response: Check other messages returned to see if they offer a reason why mutual authentication with the SDR server was unsuccessful. The client may not have valid credentials. If that is the case, the client should issue a `dce_login` to obtain credentials. Otherwise, check the `/etc/SDR_dest_info` file on the client's machine to be sure that the client is trying to connect to the correct `sdrd`. If that is correct, make sure the `sdrd` daemons on the control workstation are running. There should be one daemon for each system partition.

0025-010 **An uninitialized object list was passed.**

Explanation: This should only be issued from the library routines — a routine was passed an uninitialized object list.

User Response: Initialize the object list using the `SDRInitObjList` command.

0025-011 **Client does not have appropriate authority to change the SP_Restricted class.**

Explanation: The user must have appropriate access to the `SP_Restricted` class to make any change.

User Response: On a DCE system, make sure that your principal is a member of both the appropriate SDR access group and SDR-restricted group as defined in the **spsec_defaults** or **spsec_overrides** file. On a non-DCE system, make sure that you are running as **root** on the control workstation.

0025-012 The contents of the object list passed were not appropriate for the command.

Explanation: This is a library-only error. An object list did not contain the expected values.

User Response: Examine the contents of the list and the requirements.

0025-014 Cursor is already past the end of the list.

Explanation: The object cursor was advanced past the end of the object list.

User Response: Examine looping construct so this does not happen again.

0025-016 Cursor is not in a valid position.

Explanation: User tried to advance the cursor before it was initialized.

User Response: Use **SDRInitLoop** to initialize the cursor.

0025-020 Class specified for creation already exists.

Explanation: You tried to use **SDRCreateClass** to create a new class that already exists.

User Response: None.

0025-022 The object specified for creation already exists.

Explanation: You tried to create a new object that already exists for the class.

User Response: None.

0025-024 The attribute specified for creation already exists.

Explanation: User tried to create a new attribute that already exists for the class.

User Response: None

0025-026 The class specified does not exist.

Explanation: You attempted an action on a class that does not exist.

User Response: Perform the action on an existing class or create a new class.

0025-028 The object specified does not exist.

Explanation: You attempted an action on an object that does not exist in the specified class.

User Response: Change the values that describe the object so that they match an existing object.

0025-030 An attribute specified does not exist.

Explanation: You attempted an action on an attribute that does not exist for the specified class.

User Response: Change the attribute to one that does exist for the class.

0025-032 Class is not locked by any process.

Explanation: You attempted to unlock a class that was not locked, or issued **SDRWhoHasLock** on a class that was not locked.

User Response: None.

0025-034 Cannot find or convert active system partition name. Possible error in SP_NAME

Explanation: The system partition name cannot be found or cannot be resolved to the requested format.

User Response: Check the **SP_NAME** environment variable, the **/etc/SDR_dest_info** file, and name resolution.

0025-035 Cannot convert system partition name to desired format. Possible error in SP_NAME.

Explanation: The system partition name cannot be resolved to the requested format.

User Response: Check the **SP_NAME** environment variable, the **/etc/SDR_dest_info** file, and name resolution.

0025-036 Source syspar and target syspar must not be the same.

Explanation: User attempted to move objects in the same system partition.

User Response: Specify a target system partition that is different from the source.

0025-037 The subsystem already exists.

Explanation: An SDR subsystem that already exists was specified for creation.

User Response: Specify a subsystem name that does not already exist.

0025-038 The subsystem did not start.

Explanation: The SDR subsystem specified did not respond within the timeout period.

User Response: Perform problem determination procedures.

0025-045 The string contains non-ASCII character data that cannot be written to the SDR.

Explanation: The input character string is not valid for input according to the rules established for writing data to the SDR.

User Response: First, check the SP SDR_ASCII_ONLY attribute value. This value should be "false" in order to input non-ASCII data. Second, check the SP admin_locale attribute value. The client locale should be the same as this locale value.

0025-060 AIX file name could not be read.

Explanation: A specified file could not be found or could not be opened.

User Response: Check the existence of the file and the permissions.

0025-061 SDR file already exists.

Explanation: You specified that a file should be saved in SDR but gave the name of an existing SDR file.

User Response: Issue SDRReplaceFile or use a unique file name.

0025-062 SDR file name not found.

Explanation: You asked to retrieve an SDR that was not found.

User Response: Specify an existing file.

0025-064 Cannot write or create AIX file name specified.

Explanation: You specified an AIX file name that cannot be written or created.

User Response: Check the permissions on the AIX file and directory.

0025-066 The /spdata filesystem on the control workstation is full. Make more space and process shadow files.

Explanation: The file system that contains the SDR data on the control workstation is full. The changes made by this process are lost.

User Response: Free space in spdata on the control workstation and refer to information on processing

shadow files in *PSSP: Administration Guide*.

0025-080 The SDR routine could not connect to server.

Explanation: Could not connect to SDR server.

User Response: Check the SDR_dest_info file. Refer to the appendix on the System Data Repository in *PSSP: Administration Guide*.

Check the server on the control workstation to ensure it is running and follow the procedure in the chapter on diagnosing SDR problems in *PSSP: Diagnosis Guide* that outlines what to do when an SDR command fails to connect to the server.

0025-082 Authentication was denied.

Explanation: You are not authenticated to the SDR server.

User Response: Check elements of authentication in the admin guide. Refer to information on configuring the user home environment in the chapter on the system monitor in *PSSP: Administration Guide*.

0025-083 Could not open authentication file.

Explanation: The file /etc/SDR_dest_info could not be opened.

User Response: Check file existence and user permissions.

0025-084 There is no open SDR session.

Explanation: User attempted a server operation but no session could be opened.

User Response: Open a session and check the return code from that call before issuing server requests.

0025-085 Format error in SDR_dest_info file.

Explanation: The file /etc/SDR_dest_info contained a format error.

User Response: Refer to the appendix on the System Data Repository in *PSSP: Administration Guide* for the correct file format.

0025-086 Session has already been opened.

Explanation: An SDROpenSession call was made but a session was already in progress.

User Response: If you wish, remove the redundant call.

0025-087 Session open did not succeed - Cert Length from server was not valid.

Explanation: An **SDROpenSession** call was made, but the returned Cert Length field could not be parsed properly. The session was not opened.

User Response: Record the above information and contact the IBM Support Center.

0025-088 Session open failed - Locale Length from server was not valid.

Explanation: An **SDROpenSession** call was made, but the returned Locale Length field could not be parsed properly. The session was not opened.

User Response: Record the above information and contact the IBM Support Center.

0025-100 The system malloc routine did not succeed.

Explanation: A call to allocate storage failed.

User Response: Record the above information and contact the IBM Support Center.

0025-102 An internal data format inconsistency was detected.

Explanation: Internal SDR checking revealed a corrupted class or other corrupted data.

User Response: Record the above information and contact the IBM Support Center.

0025-104 A system routine returned an unsuccessful return code.

Explanation: A system call unexpectedly failed.

User Response: Record the above information and contact the IBM Support Center.

0025-108 Could not obtain local hostname.

Explanation: The **gethostname()** routine failed.

User Response: Record the above information and contact the IBM Support Center.

0025-110 Read or write operation on socket did not succeed.

Explanation: Reading or writing the client or server tcp socket failed. The SDR server or client may have terminated unexpectedly.

User Response: Record the above information and contact the IBM Support Center.

0025-112 Client attempted to move objects with class cached.

Explanation: This is a programming error in the program that uses the SDR client library.

User Response: Record the above information and contact the IBM Support Center.

0025-113 SDR command timed out.

Explanation: While waiting for a response from **sdrd** (the SDR daemon), the command exceeded the 10 minute timeout limit.

User Response: Check the status of **sdrd**. Check network adapters for errors.

0025-301 The sdr.syspar subsystem must be stopped before removing it.

Explanation: The **sdr** command was issued to remove an **sdrd** SRC definition from the system. The SDR subsystem must be stopped before it can be removed.

User Response: Issue **sdrd -spname syspar stop**.

0025-303 sdrd is not executable; SRC object sdr.syspar not made.

Explanation: The **sdrd** binary in **/usr/lpp/ssp/bin** is not executable.

User Response: Use the **chmod** command to make the **sdrd** binary in **/usr/lpp/ssp/bin** executable.

0025-306 Incorrect sdr parameter *parameter*.

Explanation: An unrecognized parameter was passed to the **sdr** command.

User Response: Check the parameters and issue the command again.

0025-307 sdr usage: sdr [-spname *syspar*] start | stop | reset | query | qall | mksrc | qsrc | rmsrc

Explanation: An unrecognized parameter or no parameter was passed to the **sdr** command.

User Response: Check the parameters and issue the command again.

0025-308 The code reached a path that was unexpected.

Explanation: The **sdr** command reached a code path that is in error.

User Response: Record the above information and contact the IBM Support Center.

0025-309 System partition name is missing. **sdr** usage: [-spname <syspar>] start | stop | reset | query | qall | mksrc | qsrc | rmsrc

Explanation: The system partition name is required when issuing the command **sdr -spname**.

User Response: Reissue the command with the correct syntax.

0025-310 Incorrect or missing IP address.

Explanation: The input IP address is missing or the format is not valid.

User Response: Correct the IP address.

0025-311 IP address *IP address* is not resolvable.

Explanation: The input IP address cannot be resolved into a hostname.

User Response: Correct the IP address.

0025-312 An error occurred while creating the SDR *IP address* subsystem.

Explanation: An error occurred while issuing the **sdr mksrc** command.

User Response: Follow local problem reporting procedures.

0025-313 An error occurred while starting the *IP address* subsystem.

Explanation: An error occurred while issuing the **sdr start** command.

User Response: Follow local problem reporting procedures.

0025-320 Usage: **SDRArchive** <file suffix>.

Explanation: Syntax error with the wrong number of arguments.

User Response: Correct the syntax.

0025-321 **SDRArchive: tar** command did not succeed, rc=*return code*.

Explanation: An error occurred while issuing the **tar** command.

User Response: Follow local problem reporting procedures.

0025-322 **SDRArchive: SDR** archive file name is */spdata/sys1/sdr/archives/filename*.

Explanation: The SDR has been archived in the specified file.

User Response: None.

0025-323 The **SDRArchive** command can only be run on the control workstation.

Explanation: The user tried to run the **SDRArchive** command on a node. This command can only be run on the control workstation.

User Response: Run the **SDRArchive** command on the control workstation.

0025-324 The **SDRRestore** command can only be run on the control workstation.

Explanation: The user tried to run the **SDRRestore** command on a node. This command can only be run on the control workstation.

User Response: Run the **SDRRestore** command on the control workstation.

0025-330 **SDRRemoveSyspar: Incorrect or missing IP address.**

Explanation: The input IP address is missing or the format is not valid.

User Response: Correct the IP address.

0025-331 **SDRRemoveSyspar: IP address** *IP address* is not resolvable.

Explanation: The input IP address cannot be resolved into a hostname.

User Response: Correct the IP address.

0025-332 **SDRRemoveSyspar: An error occurred while stopping the SDR.** *IP address* subsystem.

Explanation: An error occurred while issuing the **sdr stop** command.

User Response: Follow local problem reporting procedures.

0025-333 **SDRRemoveSyspar: An error occurred while removing the sdr.** *IP address* subsystem.

Explanation: An error occurred while issuing the **sdr rmsrc** command.

User Response: Follow local problem reporting procedures.

0025-340 SDRRestore: Missing archive filename.
Usage: SDRRestore archive_file.

Explanation: Syntax error. The input filename is missing.

User Response: Correct the syntax.

0025-341 SDRRestore: The file *filepath/filename* does not exist or is empty.

Explanation: The input file does not exist or is empty.

User Response: Check that the file exists and that it is not empty.

0025-342 SDRRestore: The file *filepath/filename* is damaged or not in tar format.

Explanation: The input file is not a valid tar file.

User Response: Check the file format.

0025-343 SDRRestore: IP address *IP address of SDR partitions* is not resolvable.

Explanation: The IP address cannot be resolved into a hostname.

User Response: Correct the IP address.

0025-344 SDRRestore: removing */spdata/sys1/sdr/defs/ did not succeed, rc=*return code*.**

Explanation: An error occurred while removing SDR data files.

User Response: Follow local problem reporting procedures.

0025-345 SDRRestore: removing */spdata/sys1/sdr/system/ did not succeed, rc=*return code*.**

Explanation: An error occurred while removing SDR data files.

User Response: Follow local problem reporting procedures.

0025-346 SDRRestore: removing */spdata/sys1/sdr/partitions/ did not succeed, rc= *return code*.**

Explanation: An error occurred while removing SDR data files.

User Response: Follow local problem reporting procedures.

0025-347 SDRRestore: the tar command did not succeed, rc=*return code*.

Explanation: An error occurred while restoring SDR data from an archive file.

User Response: Follow local problem reporting procedures.

0025-350 splst_syspars: SDR query did not succeed, rc=*return code*.

Explanation: An error occurred while issuing **SDRGetObjects** command for an SDR query.

User Response: Follow local problem reporting procedures.

0025-360 spchk_syspars: the SDR is not available.

Explanation: An error occurred while issuing **SDRGetObjects** command to check if SDR is available.

User Response: Issue **lssrc -g sdr** to see which partitions **sdrd** is not available.

0025-361 spchk_syspars: Partition address *partition address* is not resolvable.

Explanation: An error occurred while checking address resolution of partition's **ip_address** found in the SDR Syspar class.

User Response: Correct name resolution.

0025-362 spchk_syspars: Partition address *partition address* resolves to *resolved partition address*, which does not match the partition name *partition name*.

Explanation: The **syspar_name** in the Syspar class of the SDR is not consistent with the hostname resolved from the **ip_address** in the Syspar class.

User Response: Correct hostname resolution, restore the archived SDR data, or contact the IBM Support Center.

0025-363 spchk_syspars: Partition directory *partition directory/partition address* does not exist.

Explanation: The partition directory for a partition defined in the SDR Syspar class does not exist.

User Response: Restore archived SDR data or contact the IBM Support Center.

0025-364 **spchk_syspars: Subsystem *sdr.partition* address is not active.**

Explanation: There is no active sdrd for this partition.

User Response: Issue **startscr —s *sdr.partition*** and **lssrc —s *sdr.partition*** to make sure that the SDR is up and running.

0025-365 **spchk_syspars: The following extraneous partition directory entries exist:**

Explanation: There are one or more partition subdirectories in the SDR database for which there is no Syspar object.

User Response: Restore the archived SDR data or contact the IBM Support Center.

0025-366 **spchk_syspars: The following incorrect partition names exist in Syspar_map:**

Explanation: One or more partitions defined in the Syspar_map class is not defined in the Syspar class.

User Response: Restore the archived SDR data or contact the IBM Support Center.

0025-367 **spchk_syspars: The following extraneous sdr subsystems exist:**

Explanation: There are src definitions for sdrd daemons for partitions that are not defined in the Syspar class of the SDR.

User Response: Contact the IBM Support Center.

0025-368 **spchk_syspars: Partition name *partition name* does not match partition address *partition address* in Syspar_map.**

Explanation: An error occurred while checking name and address consistency in Syspar_map.

User Response: Restore the archived SDR data or contact the IBM Support Center.

0025-500 **SDRWhoHasLock *class_name***

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-501 **SDRCreateClass *class_name* *attr=datatype* [*attr=datatype*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-502 **SDRCreateObjects *class_name* *attr=value* [*attr=value*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-503 **SDRCreateAttrs *class_name* *attr=datatype* [*attr=datatype*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-504 **SDRChangeAttrValues *class_name* [*attr==value*...] *attr=value* [*attr=value*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-505 **SDRGetObjects [-q] [-G] [-x] [-d *delimiter*] *class_name* [*attr==value*...] [*attr*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-506 **SDRDeleteObjects *class_name* [*attr==value*...]**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-507 **SDRClearLock *class_name***

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-508 **SDRCreateFile *AIX_filename* *SDR_filename***

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-509 **SDRRetrieveFile *SDR_filename* *AIX_filename***

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-510 **SDRReplaceFile** AIX_filename
SDR_filename

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-511 **SDRDeleteFile** SDR_filename

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-512 **SDRArchive**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-513 **SDRRestore** archive_file

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-514 **SDRListClasses**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-515 **SDRListFiles**

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-516 **SDRCreateSystemClass** class_name
attr=datatype [attr=datatype...]

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-517 **SDRCreateSystemFile** AIX_filename
SDR_filename

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-518 **SDRMoveObjects** source_syspar
target_syspar class_name
[attr==value...]

Explanation: Syntax error displays the usage message.

User Response: Correct the syntax.

0025-519 **spget_syspar** [-n] [-d]

Explanation: The **n** flag means to print the hostname (default is IP address).

The **d** flag means to print the address/hostname of the default system partition.

A syntax error causes the display of this usage message.

User Response: Correct the syntax and retry the command.

0025-520 **splst_syspars** [-n]

Explanation: A syntax error causes the display of this usage message.

User Response: Correct the syntax.

0025-521 **Usage: SDRValidateString** [-q] string.

Explanation: The syntax error displays the usage message.

User Response: Correct the syntax.

0025-522 **Usage: SDRScan** [-q] [-f]

Explanation: The syntax error displays the usage message.

User Response: Correct the syntax.

0025-600 **Usage: splst_versions** [-G] [-l] [-e] [-n
node_num | -N node_group] [-t] [-h].

Explanation: A syntax error causes the display of this usage message.

User Response: Correct the syntax.

0025-601 **Flag flag_name not expected or used
without required argument.**

Explanation: splst_versions detected either a flag it does not allow or a flag it allows that is missing a required argument.

User Response: Correct the syntax.

0025-602 Node group specified *nodegroup_name* resolved to 0 nodes.

Explanation: `splst_versions` was called with the `-N` flag to specify a nodegroup. The nodegroup specified has no nodes in it.

User Response: Specify a target that contains nodes.

0025-603 An SDR routine internal to this program returned `rc=return_code`.

Explanation: The `splst_versions` subroutine (not the command line) failed internally. The return code specified is an SDR return code.

User Response: Check the SDR return code to determine the cause of the problem.

0025-604 The `popen` subroutine returned NULL trying to run the command *command_name*.

Explanation: The `splst_versions` command tried to use `popen` to run the command to resolve a nodegroup. `popen` failed to run the command.

User Response: Try running the command from a shell command line.

0025-605 A record returned from the command *command_name* was not a number. The record is *record_name*.

Explanation: The `splst_versions` command used `popen` to run the command to resolve a nodegroup. A record returned was not a number, though a number was expected.

User Response: Try running the command from a shell command line.

0025-606 The command *command_name* returned more nodes than the space allocated. The number allocated is *max_number_nodes*.

Explanation: An internal buffer overflowed.

User Response: A programming change is required.

0025-607 The command *command_name* ended abnormally from `popen`. The *command_exit_status* is the signal causing the abnormal end.

Explanation: A command running with `popen` ended abnormally.

User Response: None.

0025-608 The command *command_name* ended with `rc=return_code`.

Explanation: A command running with `popen` ended with an error.

User Response: None.

0025-609 The `splst_version` command could not complete because data was missing in the SDR.

Explanation: The `splst_version` command expected certain data to be present, however that data was missing.

User Response: Check each node object's *code_version* attribute.

0025-610 Information about a node(s) could not be found in the SDR.

Explanation: The command expected certain data to be present, however that data was missing.

User Response: Check that the node exists in the node class of the SDR and that the *code_version* attribute is present.

0025-611 Usage: `splstnodes [-h] [-x] [-d delim] [--p str] [--s attr] [-G][-t standard | dependent] [-N nodegroup][attr==value...][attr]`

Explanation: The user either typed a flag or argument that was not valid or issued the `—h` flag.

User Response: Check the syntax of the command and enter it again.

0025-612 Usage: `splstadapters [-h] [-x] [-d delim] [--p str] [--s attr] [-G][-t standard | dependent] [attr==value...][attr]`

Explanation: The user either typed a flag or argument that was not valid or issued the `—h` flag.

User Response: Check the syntax of the command and enter it again.

0025-613 An SDR routine internal to this program did not succeed. The message from that routine is: *message*.

Explanation: The SDR is not configured yet or is not configured properly. The network or control workstation is not operating properly.

User Response: Find the source of the problem indicated by *message*.

0025-614 An internal error prevented this command from completing.

Explanation: An internal error was encountered. A more detailed message will follow this one, explaining the nature of the error.

User Response: Read the message that is output after this one for more detailed information about the problem.

0025-615 Unable to resolve nodegroup
<nodegroup_name>.

Explanation: The program tried to resolve the nodegroup named above. A failure occurred.

User Response: Read the message that is output after this one for more detailed information about the problem.

0025-616 The following attribute(s) were requested but do not exist:
<comma-separated attr list>.

Explanation: The user entered one or more arguments on the command line that the command found to be invalid as attribute names. It may be the case that the user used the wrong syntax- such as putting a "-" flag after a command argument.

User Response: Examine the list of attributes that were noted as being invalid and determine if the command was entered with the wrong syntax or if the attribute names are, in fact, invalid.

0025-617 No objects were found with the attribute value(s) specified.

Explanation: The user entered one or more arguments on the command line of the form *<attr>==<value>*. The command could not find any objects whose value of *<attr>* matched *<value>*.

User Response: No action necessary. Object does not exist.

0025-618 The following attribute was specified multiple times. *<[attribute]>*

Explanation: The user entered the same attribute name (to be returned in the output) more than once. For example: *splstnodes node_number node_number*

User Response: Remove duplicates in the command invocation and reinvoke command.

0025-619 The following attribute was specified as a search argument multiple times.
program name issuing message

Explanation: The user entered the same attribute name as a search argument- *<attr==value>* more than once. For example:

splstnodes node_number==1 node_number==3

User Response: Remove duplicates in the command invocation and reinvoke the command.

0025-650 Wrong number of operands.

Explanation: The wrong number of operands were entered on the SDRSetTsAuth command. The command requires a partition IP address and an optional value to set *ts_auth_methods*. If *ts_auth_methods* value is not provided, it will be unset.

User Response: Correct the syntax and enter the command again.

0025-651 The ts_auth_methods value is not valid.

Explanation: The optional *ts_auth_methods* value entered on the SDRSetTsAuth command must be "dce", "compat", or "dce:compat".

User Response: Correct the syntax and enter the command again.

0025-652 The specified Syspar does not exist.

Explanation: The first operand of the SDRSetTsAuth command must be a valid Syspar IP address.

User Response: Correct the syntax and enter the command again.

0025-701 NonAscii Data Found in FILE:
LINENUMBER : LINE

Explanation: The SDR filename, line number, and content of the line is displayed when there is non-ASCII data found in this line.

User Response: None.

0025-702 SDR error: The following Class was found, but no corresponding SDR definition exists.

Explanation: Class was found but a class definition file was not found.

User Response: Contact the IBM Support Center.

**0025-703 NonAscii Data Found in System Class :
Attribute = Value**

Explanation: Where there is non-ASCII data found in a system class, the system class name, the attribute name that contains the non-ASCII data, and the data value are displayed.

User Response: None.

**0025-704 NonAscii Data Found in System
Partitions : Class : Attribute = Value**

Explanation: When there is non-ASCII data found in a system partition class, the system partition name, class name, attribute name that contains the non-ASCII data, and the data value are displayed.

User Response: None.

0025-705 The SDRObject Containing this data.:

Explanation: When there is non-ASCII data found in an SDR class, the object that contains the non-ASCII data is displayed. This message is displayed after message 0025-703 or 0025-704 to provide more detailed information.

User Response: None.

0025-707 Class contains that is not valid data.

Explanation: The Class file contains data that is not valid, such as data without an attribute key.

User Response: Check the data to ensure that it is valid.

**0025-708 The SDRScan command can only run
on the control workstation.**

Explanation: User tried to run SDRScan command on a node. This command can only run on the control workstation.

User Response: Run the SDRScan command on the control workstation.

Chapter 9. 0026 - System Monitor messages

0026-001 Opening session was unsuccessful.

Explanation: Could not connect to **hardmon** daemon.

User Response: Check environment variables and authorization mechanisms described in the chapter on using the system monitor in *PSSP: Administration Guide*.

0026-004 Target flag found but no target found.

Explanation: The -t option was the last token on the line passed.

User Response: Add a target to the command.

0026-005 Two key flags (-key) found.

Explanation: Two key flags were found. Only one is allowed.

User Response: Remove one of the key flags.

0026-006 Key flag found but no key setting followed it.

Explanation: A key flag (-key) was found but no key setting was found after it.

User Response: Add the desired key setting (normal/secure/service) directly after the key flag.

0026-007 Two power flags (-power) found.

Explanation: Two power flags were found. Only one is allowed.

User Response: Remove one of the power flags.

0026-008 Power flag found but no power setting followed it.

Explanation: A power flag was found but a setting did not follow it.

User Response: Add a power setting (on/off) directly after the power flag.

0026-009 Two mux flags (-mux) found.

Explanation: Two mux flags were found in the parameter list.

User Response: Remove one of the mux flags.

0026-010 Mux flag found but no setting followed it.

Explanation: A mux flag (-mux) was found in the parameter list but no value followed.

User Response: Add the desired value (i | 1 | 2 | 3) after the mux flag.

0026-011 Connect flag found but no setting followed it.

Explanation: A connect flag (-c) was found by no parameter followed it.

User Response: After the connect flag enter the host name to connect to.

0026-012 Cannot do more than one of (query, power, reset, key, open, mux, Key, Led) in one command.

Explanation: More than one flag specifying action was found.

User Response: Remove all but one flag to specify the action of the command.

0026-013 Value for power flag not valid. Must be 'off' or 'on' or any unique abbreviation.

Explanation: The value following the power flag (-p) was not recognized.

User Response: Put on or off after the power flag.

0026-014 Value for key flag not valid. Must be 'normal', 'secure', or 'service' or any unique abbreviation.

Explanation: The value following the key flag was not recognized.

User Response: Put normal, secure or service after the key (-k) flag.

0026-015 Ambiguous value for key flag. Could be 'secure' or 'service'.

Explanation: The user entered s or se after the key flag.

User Response: Put normal, secure or service after the key (-k) flag.

0026-016 Unrecognized mux value. Expecting i, 1, 2, or 3.

Explanation: You did not enter an acceptable value after the mux (-mux) flag.

User Response: Put i | 1 | 2 | 3 after the mux flag.

0026-017 No target for command specified.

Explanation: The command required a target (-t flag) but none was entered.

User Response: Enter a target for the command using the -t flag.

0026-018 Target alias incorrect. Must be 'nodeNN' or 'frameN/switch'.

Explanation: Could not parse frame and node out of target.

User Response: Refer to the chapter on using the system monitor in *PSSP: Administration Guide* for correct target syntax.

0026-019 Target node is out of range.

Explanation: The target node either does not exist or is not in the current partition.

User Response: Specify a target node which exists or is in the current partition. You can also use the —G flag of the **spmon** command to ignore partition boundaries..

0026-020 Could not parse frame and node numbers out of target. Expecting /SP/frame/frameN/nodeN or alias.

Explanation: The target is incorrect.

User Response: Refer to the chapter on using the system monitor in *PSSP: Administration Guide* for correct target syntax.

0026-021 The frame specified does not exist.

Explanation: The frame number is invalid (less than 1) or does not exist.

User Response: Refer to the chapter on using the system monitor in the *PSSP: Administration Guide* for correct target syntax.

0026-023 Frame power 'on' command ended in error.

Explanation: The command to power on frame power supplies did not work.

User Response: Refer to the chapter on diagnosing system monitor problems in the Diagnosis Guide.

0026-024 Frame power 'off' command ended in error.

Explanation: The command to power off frame power supplies did not work.

User Response: Refer to the chapter on diagnosing system monitor problems in the Diagnosis Guide.

0026-025 Power command ended in error.

Explanation: The command to power a node on or off did not work.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0026-026 Reset command ended in error.

Explanation: The command to reset a node did not work.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0026-027 Key command (-key) ended in error.

Explanation: The command to change the key setting on a node did not work.

User Response: Refer to the chapter on diagnosing system monitor problems in the Diagnosis Guide.

0026-029 Error setting clock mux.

Explanation: An error was encountered trying to set the clock mux on a switch.

User Response: Make sure the frame specified exists. Refer to the chapter on diagnosing system monitor problems in the Diagnosis Guide.

0026-031 The -Key query command ended in error.

Explanation: Querying the system monitor returned something other than 0, 1, or 2.

User Response: Refer to the chapter on diagnosing system monitor problems in the Diagnosis Guide.

0026-032 Unrecognized response received from key query.

Explanation: Querying the system monitor returned something other than 0, 1, or 2.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0026-033 The -Led query command ended in error. Make sure the target node exists and the hardmon daemon is running.

Explanation: Something went wrong with the Led command.

User Response: Make sure the specified node exists. Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

0026-034 **A switch is not a valid target for the -K or -L flag.**

Explanation: For the **-Key** and **-Led** flags, a switch cannot be targeted since they do not have key switches or 7-segment leds.

User Response: Target a node rather than the switch.

0026-035 **Target alias incorrect. Must be 'nodeNN' or 'frameY/nodeX'.**

Explanation: The target is not in valid syntax.

User Response: Input a valid target.

0026-037 **Target *full_target_path* not supported.**

Explanation: The target of the **spmon** command issued was not recognized by the hardware monitor.

User Response: Check the *PSSP: Administration Guide* for valid targets.

0026-038 **The target *unsupported_targett* is not supported. Targets must end with "/value".**

Explanation: The target of the **spmon** command issued was not correct. The only attribute that may be queried for hardware variables is "value". Therefore, every target should end with "value".

User Response: Check the *PSSP: Administration Guide* for valid targets.

0026-039 **Building the query in the monitor client was unsuccessful.**

Explanation: The **fcBuildQuery** call failed. This is likely a system or internal error. User errors should have been caught in parsing.

User Response: Contact the IBM Support Center.

0026-040 **The query was unsuccessful. Access was denied or target does not exist.**

Explanation: The hardware monitor returned an error. Either access was denied or the hardware node/switch/frame targeted does not exist.

User Response: Check access lists to see if access should have been granted. Check target to ensure hardware exists.

0026-041 **Hardware monitoring (spmon) ended.**

Explanation: The **spmon** command with **-M** option ended. The process was either interrupted (with a signal) or the client lost the connection to the hardware monitor.

User Response: Make sure the hardware monitor is running.

0026-042 **Individual frame power supplies cannot be targeted. Please use the frame as the target.**

Explanation: The target used for powering on/off a frame is incorrect. The whole frame must be powered on/off. The single supplies within the frame cannot be addressed individually (as they were in SP1).

User Response: Supply a frame target.

0026-043 **Host responds error: *error_message*.**

Explanation: This message number is used for reporting a variety of messages in the routines that connect to the **hr** daemon.

User Response: Make sure the **hr** daemon is running. If it is, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-044 **Host responds error: gethostname unsuccessful.**

Explanation: gethostname failed.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-045 **Host responds error: connecting to hr server was unsuccessful.**

Explanation: Connecting to hr server failed.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-046 **Host responds error: selected returned < 0.**

Explanation: select returned , 0.

User Response: Record the information and contact the IBM Support Center.

0026-047 **Host responds error: Attempts to connect are terminated.**

Explanation: Attempts to connect are terminated.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-048 **Host responds error: protocol error from hr server.**

Explanation: Protocol error from hr server.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-049 Host responds error: reading from client socket was unsuccessful.

Explanation: Reading from client socket was unsuccessful.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-050 Host responds error: error reading bitmap info from socket.

Explanation: Error reading bitmap information from socket.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-051 Host responds error: error creating socket.

Explanation: Error creating socket.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-052 Host responds error: error setting socket options.

Explanation: Error setting socket options.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-053 Host responds error: unknown server host.

Explanation: Unknown server host.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-054 Host responds error: connect was unsuccessful.

Explanation: connect was unsuccessful.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-055 Host responds error: hostname is too long.

Explanation: hostname is too long.

User Response: Make sure the **hr** daemon is running. If so, follow local problem reporting procedures.

0026-056 Could not create a temporary file. Check not completed.

Explanation: Temporary file `/tmp/SPx.kcbHNl` created by redirecting output of the command `ps -ae | grep hardmon > /tmp/SPx.kcbHNl` could not be opened.

User Response: Record the information and contact the IBM Support Center.

0026-057 Server process (hardmon) not found on this system.

Explanation: hardmon is not running on this system.

User Response: Start the hardmon daemon.

0026-058 Could not build frame query.

Explanation: Could not build frame query. This is likely a system error.

User Response: Record the information and call the IBM Support Center.

0026-059 Could not query frames.

Explanation: Could not query frames. This is likely a system error.

User Response: Record the information and call the IBM Support Center.

0026-060 No frames registered with hardware monitor daemon.

Explanation: No frames registered with hardware monitor daemon. This is likely a system error.

User Response: Record the information and call the IBM Support Center.

0026-061 Could not convert LED.

Explanation: An LED value could not be converted. This is likely an internal error.

User Response: Record the information and call the IBM Support Center.

0026-062 Function mbstowcs () unsuccessful.

Explanation: The function `mbstowcs ()` was unsuccessful. This is likely a system or internal error.

User Response: Record the information and call the IBM Support Center.

0026-063 Function wcswidth () unsuccessful.

Explanation: The function `wcswidth ()` was unsuccessful. This is likely a system or internal error.

User Response: Record the information and call the IBM Support Center.

0026-064 You do not have authorization to access the Hardware Monitor.

Explanation: In order to access the Hardware Monitor, any Access Control List (ACL) must give you appropriate permission. If the control workstation is using Kerberos, the ACL is defined in the /spdata/sys1/spmon/hmacls file. The user ID in the ACLs must match the Kerberos principal name you used with the kinit command. If the control workstation is using DCE, you must be logged in with a DCE identity allowed to access hardmon as defined by hardmon's DCE ACL database.

User Response: If your system is using Kerberos, verify that you have ACLs present in the /spdata/sys1/spmon/hmacls file and that they are correct. If your system is using DCE, check the hardmon ACLs with the dcepc command.

0026-065 Target frame/frame/node/node does not exist.

Explanation: The target node does not exist.

User Response: Do not try to change the key setting on a node that does not exist.

0026-066 Target frame/frame/node/node does not have a key switch.

Explanation: The target node does not have a key switch.

User Response: Do not try to change the key setting on a node that does not have a key switch.

0026-100 Severity; Hardware type; Frame number; Slot number; Variable name; **Frame supervisor does not respond.**

Explanation: RS232 cable not connected or frame supervisor problem.

User Response: Refer to the chapter on diagnosing frame supervisor communication problems in the Diagnosis Guide.

0026-101 Severity; Hardware type; Frame number; Slot number; Variable name; **Supervisor not responding for slot.**

Explanation: A node has been unplugged, or the supervisor bus has failed.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-102 Severity; Hardware type; Frame number; Slot number; Variable name; **Supervisor bus problem.**

Explanation: Failure of the supervisor bus, frame supervisor, or power unit.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-103 Severity; Hardware type; Frame number; Slot number; Variable name; **Hardware failure detected - power off.**

Explanation: A hardware failure has occurred that has caused a power off of a node or switch.

User Response: If the hardware failure is due to a temperature problem, check your air conditioning system. Gather information about the problem and follow local site procedures for reporting hardware and software problems. unless the hardware failure is cleared.

0026-104 Severity; Hardware type; Frame number; Slot number; Variable name; **Hardware failure detected - delayed power off.**

Explanation: A hardware failure has occurred that will cause a delayed power off of a node or switch if the condition that caused the failure is not cleared.

User Response: If the hardware failure is due to a temperature problem, check your air conditioning system. Gather information about the problem and follow local site procedures for reporting hardware and software problems unless the hardware failure is cleared.

0026-105 Severity; Hardware type; Frame number; Slot number; Variable name; **Hardware warning detected.**

Explanation: A temperature or voltage value is marginally out of range. A hardware failure may occur soon.

User Response: If the problem persists, Gather information about the problem and follow local site procedures for reporting hardware and software problems, unless the hardware failure is cleared.

0026-106 Severity; Hardware type; Frame number; Slot number; Variable name; **Power module not installed.**

Explanation: A previously installed frame power module has been removed.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-107 *Severity; Hardware type; Frame number; Slot number; Variable name; Power module - DC power loss.*

Explanation: A frame power module has lost power.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-109 *msg_severity; hardware_type; frame; node; msg_variable; Power supply problem.*

Explanation: The indicated power supply has failed and must be replaced.

User Response: Gather information about the problem and contact the IBM Support Center.

0026-110 *msg_severity; hardware_type; frame; node; msg_variable; Threshold shutdown.*

Explanation: Either one or both of the power supplies has exceeded a maximum threshold value and must be replaced.

User Response: Gather information about the problem and contact the IBM Support Center.

0026-111 *msg_severity; hardware_type; frame; node; msg_variable; Power detector problem.*

Explanation: The ability to detect power supply failures is not operational.

User Response: Gather information about the problem and contact the IBM Support Center.

0026-112 **Supervisor card not seated.**

Explanation: The supervisor card is not seated.

User Response: Check the naming mechanism. If the card cannot be seated, contact the IBM Support Center.

0026-113 **Could not open *file: error message* splogd will exit.**

Explanation: The **splogd** input file could not be opened.

User Response: Check the error message and take appropriate action.

0026-114 **Syntax error in *file Line line number* has less than 7 fields. Skipping.**

Explanation: The specified line has less than the required number of fields.

User Response: Correct the line and recycle the **splogd**.

0026-115 **Could not build query. Possible syntax error in: *file line line number*. Skipping line.**

Explanation: An error occurred while processing the specified line.

User Response: Check the line for syntax errors and incorrect values. Correct the error and retry the function.

0026-116 **Internal error adding callback. Skipping *file line line number*.**

Explanation: An error occurred while processing the specified line.

User Response: Check the line for syntax errors and incorrect values. Correct the error and retry the function. If the problem persists, record the above information and contact the IBM Support Center.

0026-117 **Found nothing to query. There may be no valid lines in: *file* splogd will exit.**

Explanation: No valid lines were found in the input file.

User Response: Check for other errors referring to problems with specific lines of the file. Check that the file is not empty. Correct and restart the *splogd*.

0026-204 **HMC entry not found.**

Explanation: The HMC specified does not exist.

User Response: Reissue the command with the correct host name or IP address of the HMC.

0026-205 **Host name *host name/ip address* cannot be resolved.**

Explanation: The input host name or IP address cannot be resolved by the name services used by the system.

User Response: Make sure that the host name/IP address is valid and that the name services are running, and try again.

0026-207 **Incorrect number of arguments entered.**

Explanation: Syntax error.

User Response: Refer to the command usage statement and try again.

0026-208 Unable to store HMC entry.

Explanation: There is a system problem which prevents a file from being saved.

User Response: Resolve the system problem and try again.

0026-209 Unable to remove HMC entry.

Explanation: There is a system problem which prevents a file from being removed.

User Response: Resolve the system problem and try again.

0026-211 File access permissions for *file name* violated.

Explanation: The permission bits of the specified file have been altered from the original settings.

User Response: Check to see if data is compromised, and change the permission bits back to the original settings.

0026-400 Internal hmap error, message index *value* is not valid.

Explanation: This message indicates an internal program problem in the Hardware Monitor API library.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-401 Error while sending message to *hardmon* at *host_name*: *system_error_message (error_number)*.

Explanation: A Hardware Monitor client command could not send a message to the Hardware Monitor daemon, at the specified host name, due to the reason supplied by the system error message. The error number returned by **write()** is also provided.

User Response: The most likely cause of this error is that the Hardware Monitor Daemon terminated while the client command was executing. Verify that the Hardware Monitor has been restarted by executing the command again.

Another cause of this error may be a problem in your TCP/IP network. Use the system error message as a guide in determining if you have a network problem. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-402 Cannot send complete message to *hardmon* at *host_name*.

Explanation: A Hardware Monitor client command could not send a complete message to the Hardware Monitor daemon at the specified host name.

User Response: A possible cause of this error is that the workstation on which the client command is running does not have sufficient communication buffers (mbufs).

Verify that there are sufficient buffers. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-403 Cannot get IP address for host name *host_name*: *reason*.

Explanation: A Hardware Monitor client command could not obtain the IP address of the specified host name. This host name has been configured as the location of the Hardware Monitor daemon.

The reason for the error is specified in the message. This reason is what was returned by the **gethostbyname()** subroutine.

User Response: Verify that the System Data Repository has been properly configured for the Hardware Monitor (Refer to **hardmon** in *PSSP: Command and Technical Reference*.)

Also verify that whatever host name resolution scheme your site uses has been properly configured.

0026-404 Cannot create client socket: *system_error_message (error_number)*.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-405 Cannot connect to *host_name*: *system_error_message (error_number)*.

Explanation: A Hardware Monitor client command could not connect to the specified host name, due to the reason supplied by the system error message. The error number returned by **connect()** is also provided.

User Response: A possible cause of this error may be a problem in your TCP/IP network. Use the system error message as a guide in determining if you have a network problem.

Another possible cause is that the Hardware Monitor daemon may not be running. Verify that the Hardware Monitor daemon is running on the specified host.

0026-406 **Cannot obtain service ticket for *server principal.instance*. Kerberos error code: *error_code*, Kerberos error message: *error_message*.**

Explanation: A Hardware Monitor client command could not obtain a service ticket for the Hardware Monitor Daemon. The Kerberos error information is provided.

User Response: The most likely cause of this error is that the user has not run the **k4init** command (or other site procedure equivalent to **k4init**). Use the information provided in the Kerberos error message to correct the problem.

0026-407 **Incorrect response to *HM_CMD_START_V1* received from *host_name*.**

Explanation: A Hardware Monitor client received an incorrect response to the command to start a session with the Hardware Monitor daemon on the specified host. This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-408 **User cannot be authenticated on *host_name*. Kerberos error code: *error_code*, Kerberos error message: *error_message*.**

Explanation: The user of a Hardware Monitor client command could not be authenticated by the Hardware Monitor Daemon. The Kerberos error information is provided.

User Response: Use the information provided in the Kerberos error message to correct the problem.

0026-409 **Error while reading message from *hardmon* at *host_name*: *system error message (error_number)*.**

Explanation: A Hardware Monitor client command could not read a message from the Hardware Monitor daemon, at the specified host name, due to the reason supplied by the system error message. The error number returned by read() is also provided.

User Response: The most likely cause of this error is that the Hardware Monitor Daemon terminated while the client command was executing. Verify that the Hardware Monitor has been restarted by executing the command again.

Another cause of this error may be a problem in your TCP/IP network. Use the system error message as a guide in determining if you have a network problem. If

this error occurs repeatedly, save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-410 **Cannot read complete message from *hardmon* at *host_name*.**

Explanation:

A Hardware Monitor client command could not read a complete message from the Hardware Monitor daemon at the specified host name.

User Response: A possible cause of this error is that the workstation on which the client command is running does not have sufficient communication buffers (mbufs). Verify that there are sufficient buffers.

If this error occurs repeatedly save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-411 **Cannot obtain service ticket for *server principal nameserver principal instance*. SP Security Services error code: *error code* SP Security Services error message: *error message***

Explanation: A Hardware Monitor client command could not obtain a service ticket for the Hardware Monitor daemon. The SP Security Services error information is provided.

User Response: The most likely cause of this error is that the user has not run the **dce_login** command (or other site procedure equivalent to **dce_login**). Use the information provided in the error message to correct the problem.

0026-412 **User cannot be authenticated on *hostname*. SP Security Services error code: *error code* SP Security Services error message: *error message***

Explanation: The user of a Hardware Monitor client command could not be authenticated by the Hardware Monitor daemon. The SP Security Services error information is provided.

User Response: Use the information provided in the error message to correct the problem.

0026-413 **Cannot obtain the authentication methods in use on the local host: *spsec_get_ts_authent()* was unsuccessful *spsec_get_ts_authent error code*.**

Explanation: Hardmon API was not able to ascertain what, if any, authentication methods were in use on the

local host due to a `spsec_get_ts_authent()` library function error.

User Response: This is most likely an error internal to `spsec_get_ts_authent()`. Contact the IBM Support Center.

0026-414 SP Security Services Error. SP Security Services error code: *spsec error code* SP Security Services error message: *spsec error msg* DCE error code: *dce error code* Unsuccessful DCE library subroutine: *dce library routine* Unsuccessful System Call errno: *system library routine*.

Explanation: This message is issued whenever a call to the SP Security Services API results in an error condition.

User Response: Correct the problem indicated by the message. If unable to do so, or if the problem persists, contact the IBM Support Center.

0026-500 Internal error, message index (*invalid message index value*) was not valid.

Explanation: This message indicates an internal program problem. A core file was generated in the directory `/var/adm/SPlogs/spmon/program name`.

User Response: Save the core file and error message. Contact the IBM Support Center.

0026-501 Internal error, received unsupported parameter flag (*-parameter flag*) from Hardmon.

Explanation: This message indicates an internal program problem. A core file was generated in the directory `/var/adm/SPlogs/spmon/program name`.

User Response: Save the core file and error message. Contact the IBM Support Center.

0026-502 Internal error, received incorrect number of parameters (*number of parameters*) from Hardmon.

Explanation: This message indicates an internal program problem. A core file was generated in the directory `/var/adm/SPlogs/spmon/program name`.

User Response: Save the core file and error message. Contact the IBM Support Center.

0026-503 Cannot open log file *log file name*: *system error message (error number)*.

Explanation: The *program name* daemon could not open its logfile due to the reason supplied by the system error message. The error number returned by `open()` is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-504 Cannot create stream for log file *log file name*.

Explanation: This message indicates a system program problem.

User Response: Save the error message. Contact the IBM Support Center.

0026-505 Cannot set buffer mode on log file *log file name*.

Explanation: This message indicates a system program problem.

User Response: Save the error message. Contact the IBM Support Center.

0026-506 Cannot obtain lock */etc/locks/LCK.. lock name for device name*.

Explanation: The *program name* daemon attempted to lock the named device but found that the device was already locked by another process.

User Response: The named lock file contains the process-ID of the process that holds the lock. The *program name* daemon will not execute successfully as long as this process has the lock.

To correct the problem, terminate the process that holds the lock and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**).

0026-507 Cannot obtain lock for *device name*.

Explanation: This message indicates a system program problem.

User Response: Save the error message. Contact the IBM Support Center.

0026-508 Cannot open device *device name*: *system error message (error number)*.

Explanation: The *program name* daemon could not open the named device due to the reason supplied by the system error message. The error number returned by `open()` is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message. Contact the IBM Support Center.

0026-509 **Cannot set SIGALRM:** *system error message (error number).*

Explanation: The *program name* daemon could not establish a signal action for **SIGALRM** due to the reason supplied by the system error message. The error number returned by **sigaction()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-510 **Cannot set SIGTERM:** *system error message (error number).*

Explanation: The *program name* daemon could not establish a signal action for **SIGTERM** due to the reason supplied by the system error message. The error number returned by **sigaction()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-511 **Cannot set SIGUSR1:** *system error message (error number).*

Explanation: The *program name* daemon could not establish a signal action for **SIGUSR1** due to the reason supplied by the system error message. The error number returned by **sigaction()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-512 **Cannot set interval timer:** *system error message (error number).*

Explanation: The *program name* daemon could not establish an interval timer for the purpose of driving poll cycles due to the reason supplied by the system error message. The error number returned by **incinterval()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-513 **Cannot unblock signal mask:** *system error message (error number).*

Explanation: The *program name* daemon could not unblock either the **SIGTERM** or **SIGALRM** signal masks due to the reason supplied by the system error

message. The error number returned by **sigprocmask()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-514 **Cannot block signal mask:** *system error message (error number).*

Explanation: The *program name* daemon could not block either the **SIGTERM** or **SIGALRM** signal masks due to the reason supplied by the system error message. The error number returned by **sigprocmask()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-515 **Select was unsuccessful:** *system error message (error number).*

Explanation: The *program name* daemon could not determine whether any of its open file descriptors held data due to the reason supplied by the system error message. The error number returned by **select()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-516 **Error in read of Hardmon socket (file descriptor):** *system error message (error number).*

Explanation: The *program name* daemon encountered an error reading data from the socket connection established by the Hardware Monitor due to the reason supplied by the system error message. The error number returned by **read()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-517 **Hardmon peer socket connection (socket file descriptor) closed.**

Explanation: During a read or write operation, the *program name* daemon found that the socket connection established by the Hardware Monitor, having once been open, is now closed. The file descriptor of the socket is included in the message.

The *program name* daemon will exit to the Hardware Monitor with a status that tells **hardmon** to automatically restart the *program name* daemon in an attempt to reestablish the socket connection. This happens not more than three times before **hardmon** stops restarting the *program name* daemon.

User Response: If the problem persists, save the error message. Contact the IBM Support Center.

0026-518 **Error in write of Hardmon socket** (*file descriptor*): *system error message (error number)*.

Explanation: The *program name* daemon encountered an error writing data to the socket connection established by the Hardware Monitor due to the reason supplied by the system error message. The error number returned by **write()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message. Contact the IBM Support Center.

0026-519 **Internal error, cannot interpret command data from Hardmon:** *error message (error number)*.

Explanation: During the parsing of the data sent by the Hardware Monitor, the *program name* daemon received invalid data or its parsing algorithm failed due to the reason supplied by the error message. The error number is also provided.

The *program name* daemon exits to the Hardware Monitor with a status that tells **hardmon** to automatically restart the *program name* daemon in an attempt to resynch the protocol. This happens not more than three times before **hardmon** stops restarting the *program name* daemon.

User Response: If the problem persists, save the error message. Contact the IBM Support Center.

0026-520 **Internal error, received a command from Hardmon for unconfigured slot** (*slot number*).

Explanation: The *program name* daemon received a command from the Hardware Monitor for the indicated slot number but the slot was not in the *program name* daemon's configuration. The command is ignored.

User Response: Check the System Data Repository (SDR) Frame/Node class for a configuration error. If an error is found, correct it and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If no configuration errors exist, save the error message and contact the IBM Support Center.

0026-521 **Internal error, received unsupported command type command** (*command*) **from Hardmon.**

Explanation: The *program name* daemon received a command from the Hardware Monitor for the indicated command type, either **frame** or **node**, but the indicated command is not supported by the *program name* daemon. The command is ignored.

User Response: Save the error message. Contact the IBM Support Center.

0026-522 **ioctl() was unsuccessful:** *system error message (error number)*.

Explanation: The *program name* daemon could not perform a control function associated with an open file descriptor due to the reason supplied by the system error message. The error number returned by **ioctl()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-523 **tcsetattr() was unsuccessful:** *system error message (error number)*.

Explanation: The *program name* daemon could not set a terminal state due to the reason supplied by the system error message. The error number returned by **tcsetattr()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-524 **tcgetattr() was unsuccessful:** *system error message (error number)*.

Explanation: The *program name* daemon could not get a terminal state due to the reason supplied by the system error message. The error number returned by **tcgetattr()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-525 **Error in write to device** *tty device* : *system error message (error number)*.

Explanation: The *program name* daemon encountered an error writing data to the named *tty device* due to the reason supplied by the system error message. The error number returned by **write()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-526 **Short count in write to device** *tty device*: **count=count**, **wrote=bytes written**.

Explanation: During a write operation, the *program name* daemon found that it could not write the above number of bytes to the named *tty* device. The number of bytes written is included in the error message.

User Response: Restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem persists, save the error message and contact the IBM Support Center.

0026-527 **(EOF) No data read from device** *tty device (file descriptor)*.

Explanation: During a read operation, the *program name* daemon found that the named *tty* device, having once been open, is now closed. The file descriptor of the device is included in the message.

The *program name* daemon will exit to the Hardware Monitor with a status that tells **hardmon** to automatically restart the *program name* daemon in an attempt to reestablish the device connection. This happens not more than three times before **hardmon** stops restarting the *program name* daemon.

User Response: If the problem persists, save the error message and contact the IBM Support Center.

0026-528 **Error in read of device** *tty device* : **system error message (error number)**.

Explanation: The *program name* daemon encountered an error reading data from the named *tty* device due to the reason supplied by the system error message. The error number returned by **read()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-529 **Internal error, ignoring data read from device** *serial device*: **serial link is marked as closed**.

Explanation: The *program name* daemon read unexpected data from the named serial device. The *program name* daemon ignores the data read and closes the serial device.

User Response: If the problem persists, save the error message and contact the IBM Support Center.

0026-530 **Could not allocate memory for data structure** *data structure name*.

Explanation: Memory could not be allocated for the specified data structure. A core file was generated in */var/adm/SPlogs/spmon/program name*.

User Response: Save the core file and error message. Contact the IBM Support Center.

0026-531 **Error recovery attempts were unsuccessful, so the program name daemon is terminating**.

Explanation: The *program name* daemon terminated because it encountered the same error multiple times and all attempts to recover from the error failed. Examine the previous log entries to find the source of the error.

User Response: Correct the error and restart the *program name* daemon by restarting the Hardware Monitor (**hardmon**). If the problem cannot be corrected, save the error message and contact the IBM Support Center.

0026-534 **Access to device** *tty device* **has been revoked: Make sure that getty is not running on this device**.

Explanation: Access to device *tty device* has been revoked by another process.

User Response: Check for the following problems:

1. The getty program may also be using device *tty device* and revoking access by any other process.
2. Some other program may also be using device *tty device* and revoking access by any other process.

Correct the problem and restart the daemon by restarting the Hardware Monitor (**hardmon**).

0026-544 **Internal error, message index (message index value) not valid**.

Explanation: This message indicates an internal program problem. A **core** file was generated in the directory */var/adm/SPlogs/spmon/program name*.

User Response: Save the **core** file and error message. Contact the IBM Support Center.

0026-545 **Internal error, received unsupported parameter flag (parameter flag) from Hardmon**.

Explanation: This message indicates an internal program problem. A **core** file was generated in the directory */var/adm/SPlogs/spmon/program name*.

User Response: Save the **core** file and error message. Contact the IBM Support Center.

0026-546 Internal error, received incorrect number of parameters (*number of parameters*) from Hardmon.

Explanation: This message indicates an internal program problem. A **core** file was generated in the directory */var/adm/SPlogs/spmon/program name*.

User Response: Save the **core** file and error message. Contact the IBM Support Center.

0026-547 Cannot open log file *log file name: system error message (error number)*.

Explanation: The *program name* daemon could not open its log file due to the reason supplied by the system error message. The error number returned by **open()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-548 Cannot create stream for log file *log file name*.

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-549 Cannot set buffer mode on log file *log file name*.

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-550 Invalid virtual console open string: *open string returned*.

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-551 Cannot set SIGALRM: *system error message (error number)*.

Explanation: The *program name* daemon could not establish a signal action for SIGALRM due to the reason supplied by the system error message. The error number returned by **sigaction()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon).

If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-552 Cannot set SIGTERM: *system error message (error number)*.

Explanation: The *program name* daemon could not establish a signal action for SIGTERM due to the reason supplied by the system error message. The error number returned by **sigaction()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-553 Cannot set SIGUSR1: *system error message (error number)*.

Explanation: The *program name* daemon could not establish a signal action for SIGUSR1 due to the reason supplied by the system error message. The error number returned by *sigaction()* is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-554 Cannot set interval timer: *system error message (error number)*.

Explanation: The *program name* daemon could not establish an interval timer for the purpose of driving poll cycles due to the reason supplied by the system error message. The error number returned by **incinterval()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon).

0026-555 Cannot unblock signal mask: *system error message (error number)*.

Explanation: The *program name* daemon could not unblock either the SIGTERM or SIGALRM signal due to the reason supplied by the system error message. The error number returned by **sigprocmask()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-556 **Cannot block signal mask:** *system error message (error number).*

Explanation: The *program name* daemon could not block either the SIGTERM or SIGALRM signal due to the reason supplied by the system error message. The error number returned by **sigprocmask()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-557 **Select was unsuccessful:** *system error message (error number).*

Explanation: The *program name* daemon could not determine whether any of its open file descriptors held data due to the reason supplied by the system error message. The error number returned by **select()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-558 **Error in read of Hardmon socket (file descriptor):** *system error message (error number).*

Explanation: The *program name* daemon encountered an error reading data from the socket connection established by the Hardware Monitor due to the reason supplied by the system error message. The error number returned by **read()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-559 **Hardmon peer socket connection (socket file descriptor) closed.**

Explanation: The *program name* daemon, during a read or write operation, found that the socket connection established by the Hardware Monitor, having once been open, is now closed. The file descriptor of the once opened socket is included in the message.

The *program name* daemon will exit to the Hardware Monitor with a status that tells hardmon to automatically restart the *program name* daemon, in an attempt to re-establish the socket connection. This will happen not more than 3 times before hardmon stops restarting the *program name* daemon.

User Response: If the problem persists, record the

above information and contact the IBM Support Center.

0026-560 **Error in write of Hardmon socket (file descriptor):** *system error message (error number).*

Explanation: The *program name* daemon encountered an error writing data to the socket connection established by the Hardware Monitor due to the reason supplied by the system error message. The error number returned by **write()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-561 **Internal error, cannot interpret command data from Hardmon:** *error message (error number)*

Explanation: The *program name* daemon, during the parsing of the data sent by the Hardware Monitor, received invalid data or its parsing algorithm failed due to the reason supplied by the error message. The error number is also provided.

The *program name* daemon will exit to the Hardware Monitor with a status that tells hardmon to automatically restart the *program name* daemon in an attempt to re-synch the protocol. This will happen not more than 3 times before hardmon stops restarting the *program name* daemon.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

0026-562 **Internal error, received a command from Hardmon for unconfigured slot (slot number).**

Explanation: The *program name* daemon received a command from the Hardware Monitor for the indicated slot number but the slot was not in the *program name* daemon's configuration. The command is ignored.

User Response: Check the System Data Repository (SDR) Frame/Node class for a configuration error. If an error is found, correct it and restart the *program name* daemon by restarting the Hardware Monitor (hardmon). If no errors exist, record the above information and contact the IBM Support Center.

0026-563 **Internal error, received unsupported command type command (command) from Hardmon.**

Explanation: The *program name* daemon received a command from the Hardware Monitor for the indicated command type, either "frame" or "node", but the indicated command is not supported by the *program name* daemon. The command is ignored.

User Response: Record the above information and contact the IBM Support Center.

0026-564 Cannot get pointer to Java object *Java object.*

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-565 Could not allocate memory for data structure *data structure name.*

Explanation: Memory could not be allocated for the named data structure. A **core** file was generated in the directory */var/adm/SPlogs/spmon/program name.*

User Response: Save the **core** file. Record the above information and contact the IBM Support Center.

0026-566 Cannot access Java method ID for *method name.*

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-567 Could not create Java Virtual Machine instance.

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-568 Could not find Java class *class name.*

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-569 Exception occurred while attempting to access Java method *method name.*

Explanation: This message indicates a system program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-570 Selected undefined file descriptor.

Explanation: This message indicates an internal program problem. A **core** file should be generated in */var/adm/SPlogs/spmon/hardmon/core.*

User Response: Save the **core** file. Record the above

information and contact the IBM Support Center.

0026-571 Cannot create virtual console socket: *system error message (error number).*

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-572 Unable to establish virtual console connection for *vterm ip address:vterm port number: system error message (error number).*

Explanation: The named system error message and error number describe the reason for the system call failure. This message indicates an internal program problem. A **core** file should be generated in **A core file generated in** */var/adm/SPlogs/spmon/program name/core.*

User Response: Restart the Hardware Monitor. If problem persists, save the **core** file, record the above information and contact the IBM Support Center.

0026-573 Error in write of virtual console socket: *system error message (error number).*

Explanation: The *program name* daemon encountered an error writing data to the virtual console socket connection due to the reason supplied by the system error message. The error number returned by **write()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (*hardmon*). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-574 Error in read of virtual console socket: *system error message (error number).*

Explanation: The *program name* daemon encountered an error reading data from the virtual console socket connection due to the reason supplied by the system error message. The error number returned by **read()** is also provided.

User Response: Correct the problem indicated by the system error message and restart the *program name* daemon by restarting the Hardware Monitor (*hardmon*). If the problem cannot be corrected, record the above information and contact the IBM Support Center.

0026-575 Virtual console socket unexpectedly closed.

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-576 Unknown return code received from Java interface: (return code).

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-577 Java interface error: error message (return code).

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-600 Internal program error, message index value. not valid.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-601 The *flag* flag requires an argument.

Explanation: The argument for the specified flag was not supplied to the command.

User Response: Either specify a valid flag argument or remove the flag. See the man page for the command for valid flag arguments.

0026-602 You must specify a VFOP command.

Explanation: A VFOP command was not specified on the command line.

User Response: Specify the Virtual Front Operator Panel command to send to the hardware.

0026-603 You must specify a valid VFOP command (command is invalid).

Explanation: A valid VFOP command was not specified on the command line.

User Response: Specify a valid Virtual Front Operator Panel command to send to the hardware.

0026-604 You must specify one or more slot specifications or the "all" keyword.

Explanation: The **hmcmds** command requires that one or more slot specifications be specified on the command line. Otherwise, the "all" keyword may be supplied if the VFOP command is "on" or "off".

User Response: Specify slot specifications or the "all" keyword. However, exercise extreme caution in using the "all" keyword since you can power off the entire SP system, resulting in loss of data and termination of all jobs.

0026-605 Could not allocate memory.

Explanation: An internal program problem occurred in the named command.

User Response: Save the error message, gather information about the problem, and follow local site procedures for reporting hardware and software problems.

0026-606 The *command* VFOP command requires one or more slot specifications.

Explanation: The named VFOP command requires that you supply one or more slot specifications on the command line.

User Response: Supply one or more slot specifications on the command line.

0026-607 Configuration information cannot be obtained from the SDR.

Explanation: The named command either cannot establish a session with the System Data Repository or the SDR does not contain the required Hardware Monitor configuration information.

User Response: Verify that the SDR has been properly configured and that the Hardware Monitor configuration information is present in the SDR. Refer to the man page for the **hardmon** command for a description of this configuration information.

If this command has been executed on a workstation other than the control workstation, also verify that the SP_NAME environment variable is defined to the host name of the control workstation prior to running this command.

0026-608 Configuration information from the SDR is invalid.

Explanation: While the named command has successfully obtained configuration information from the System Data Repository, the information is incomplete or in an incorrect format.

User Response: Verify that the SDR has been

properly configured and that the Hardware Monitor configuration information is present in the SDR. Refer to the man page for the **hardmon** command for a description of this configuration information.

0026-609 The SDR contains a frame number that is not valid.

Explanation: One of the objects in the Frame class in the System Data Repository contains a frame number that is not within the permitted range of the Hardware Monitor. This range begins with 1 and increases to the number of frames supported by the current release of the SP System.

User Response: Verify that the Frame objects in the SDR contain valid frame numbers.

0026-610 A duplicate frame ID (*id*) was found.

Explanation: A slot specification argument to the named command contained a duplicate frame ID.

User Response: Provide slot specifications to the named command without duplicate frame ID.

0026-611 The SDR contains a duplicate frame number.

Explanation: One of the objects in the Frame class in the System Data Repository contains a frame number that is a duplicate of the frame number in another object in the Frame class.

User Response: Verify that the Frame objects in the SDR contain unique frame numbers.

0026-612 Could not connect to Hardware Monitor (*frame_id*).

Explanation: The named command could not make a connection to a Hardware Monitor daemon. If the frame ID is not 0, and there are more than one Monitor and Control Nodes, then the MACN to which the indicated frame is connected via a RS-232 link is the system to which a connection could not be made.

Note that the frame ID will be nonzero if slot specifications were supplied on the command line. This message may be preceded by another message indicating the reason the connection could not be made.

User Response: If another message precedes this one, then follow the action for that message. Otherwise, verify that the Hardware Monitor daemon is running on all Monitor and Control Nodes and that you have network connectivity to the MACNs.

Enter the command **ps -ef | grep hardmon** on a MACN to determine if the daemon is running. Also, examine the daemon log file

/var/adm/SPlogs/spmon/hmlogfile.nnn for errors.

0026-613 The frame ID *id* does not match a configured frame.

Explanation: The frame ID provided in a slot specification to the named command does not match any frame currently configured to the Hardware Monitor.

User Response: Verify that the slot specification you supplied on the command line is correct. If it is, then verify the frame configuration in the Frame class in the System Data Repository.

0026-614 You do not have authorization to access the Hardware Monitor.

Explanation: In order to access the Hardware Monitor you must have an Access Control List configured in the **/etc/hmacls** file. The user ID in the ACLs must match the Kerberos principal name you used with the **k4init** command.

User Response: Verify that you have ACLs present in the **/etc/hmacls** file and that they are correct.

0026-615 You cannot be authenticated to the Hardware Monitor.

Explanation: In order to access the Hardware Monitor you must have executed the **k4init** command (or performed equivalent procedures unique to your site). This error typically occurs when you attempt to execute the named command without first having executed **k4init**.

Another reason this error may occur is if the ticket obtained by **k4init** has expired. This message is preceded by another message that provides more detailed error information.

User Response: Execute the **k4init** command (or equivalent site unique procedure) and rerun the command. If the same error occurs use the detailed error message to determine the proper action.

0026-616 Internal program error, no state defined.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-617 Internal program error, session not started.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site

procedures for reporting hardware and software problems.

0026-618 Internal program error, no connection for frame *id*.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-619 Internal program error, no slots for frame *id*.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-620 Internal program error, no frame ID list.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-621 Internal program error, command is not valid.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-622 Internal program error, parameter is not valid.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-623 Internal program error, select mask too small.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-624 Select was unsuccessful: *system_error_message (error_number)*.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-625 Internal program error, file descriptor was not valid.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-626 Could not read data from hardware monitor daemon.

Explanation: The named command could not read data from the Hardware Monitor daemon. This message should be preceded by a more detailed error message.

User Response: If another messages precedes this one, then follow the action for that message. Otherwise, verify that the Hardware Monitor daemon is running on all Monitor and Control Nodes and that you have network connectivity to the MACNs.

Enter the command **ps -ef | grep hardmon** on a MACN to determine if the daemon is running. Also examine the daemon log file */var/adm/SPIlogs/spmon/hmlogfile.nnn* for errors.

0026-627 The hardware monitor daemon has disconnected.

Explanation: The Hardware Monitor daemon has disconnected its end of the session with the named command.

User Response: Verify that the Hardware Monitor daemon is running on all Monitor and Control Nodes and that you have network connectivity to the MACNs. Enter the command **ps -ef | grep hardmon** on a MACN to determine if the daemon is running.

Also examine the daemon log file */var/adm/SPIlogs/spmon/hmlogfile.nnn* for errors.

0026-628 A signal has been received.

Explanation: The named command has received a signal.

User Response: Execute the command again.

0026-629 A variable ID that is not valid was found.

Explanation: The named command has detected an invalid variable ID in a response from the Hardware Monitor daemon.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-630 Internal program error, vtab entry is not valid.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-631 Cannot obtain query information for the following slots:

Explanation: The named command could not obtain query information for the slots displayed after this message.

This error occurs if you do not have Monitor authorization for the frames containing these slots or if the specified slots do not contain any hardware components. A slot contains a processing node, a switch or represents the frame itself (slot 0).

User Response: Verify that you have access to the specified frames.

0026-632 You cannot specify both *flag* and *flag*.

Explanation: For the named command, you cannot specify both of the indicated flags.

User Response: Remove one or both flags and rerun the command.

0026-633 You cannot specify **-V** and any other parameter.

Explanation: The **-V** flag cannot be specified along with any other parameter to the named command.

User Response: Remove either the **-V** flag or the other parameters and rerun the command.

0026-634 *name* is not a valid state variable name.

Explanation: You have specified an invalid state variable name with the **-v** flag.

User Response: You can use the **-V** flag to obtain a list of valid state variable names.

0026-635 You must specify a valid operation (*operation* is invalid).

Explanation: A valid administrative operation was not specified on the command line.

User Response: Specify a valid administrative operation.

0026-636 The environment variable **S1TERMESC** is not properly defined. It must be set to a value from 0 to 255.

Explanation: The **S1TERMESC** environment variable can be used to specify the termination character for the named command. It must be set to an octal, decimal or hexadecimal value, from 0 through 255, that is the value of the terminal character.

For example, if the termination character is Control-X, set **S1TERMESC** to 030, 24 or 0x18.

User Response: Either remove the variable **S1TERMESC** from your environment or set it to a correct value.

0026-637 You must specify a node ID from 1 to 16.

Explanation: The node ID specified must be one of the values from 1 through 16.

User Response: Specify a valid node ID.

0026-638 Cannot set **SIGNALRM**:
system_error_message (*error number*).

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-639 Cannot set signal mask:
system_error_message (*error number*).

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-640 Unexpected return value from hm_start_session.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-641 tcgetattr was unsuccessful: system_error_message (error_number).

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-642 tcsetattr was unsuccessful: system_error_message (error_number).

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-643 Unanticipated completion response (code) to hm_s1connect().

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-644 The S1 port in frame id slot id is already open for write.

Explanation: The specified S1 serial port is already open for read/write by another program. Only one program at a time can open a S1 port for read/write. Any number of programs may open the same S1 port for read.

User Response: Retry the named command at a later time.

0026-645 The S1 port in frame id slot id cannot be accessed. It either does not exist or you do not have S1 permission.

Explanation: The specified S1 serial port cannot be accessed. This message occurs when no processing node is located in the specified frame and slot or if you

do not have a Hardware Monitor ACL with S1 permission for the specified frame.

User Response: Verify that the specified frame and slot contain a processing node and that you have S1 permission for the frame.

0026-646 Unanticipated error response (code) to hm_s1connect().

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-647 Error detected while reading standard input: system_error_message (error_number).

Explanation: The named command detected an error while reading standard input.

User Response: You can use the system error message to determine the cause of the error. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-648 Cannot set/reset interval timer: system_error_message (error_number).

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-649 Received data from wrong slot: id.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-650 Received data from wrong frame: id.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-651 Received data with unexpected type.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

**0026-652 Cannot open *file_name*:
system_error_message (error_number).**

Explanation: The named file could not be opened due to the reason supplied by the system error message.

User Response: Correct the problem specified by the system error message and rerun the command.

**0026-653 Cannot stat *file_name*:
system_error_message (error_number).**

Explanation: Status information for the named file could not be obtained due to the reason supplied by the system error message.

User Response: Correct the problem specified by the system error message and rerun the command. If the problem cannot be corrected, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-654 The slot ID specification file *file_name* is empty.

Explanation: The slot ID specification file you supplied to the named command is empty. This file must contain one slot ID specification per line.

User Response: Rerun the command with a properly formatted slot ID specification file.

**0026-655 Cannot read *file_name*:
system_error_message (error_number).**

Explanation: The named file could not be read due to the reason supplied by the system error message.

User Response: Correct the problem specified by the system error message and rerun the command. If the problem cannot be corrected, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-656 The slot ID specification file *file_name* contains NULLs.

Explanation: The slot ID specification file you supplied to the named command contains NULLs. This file must be an ASCII file, containing one slot ID specification per line.

User Response: Rerun the command with a properly

formatted slot ID specification file.

**0026-657 The slot ID specification is longer than *string_size* characters:
slot_ID_specification.**

Explanation: The slot ID specification you supplied is longer than the permitted string size.

User Response: Rerun the command with a shorter slot ID specification.

0026-658 The slot ID specification *slot_ID_specification* contains a range that is not valid.

Explanation: The slot ID specification contains an invalid range of numbers.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-659 The slot ID specification *slot_ID_specification* contains a slot number that is not valid.

Explanation: The slot ID specification contains an invalid slot number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-660 The slot ID specification *slot_ID_specification* is missing a slot number.

Explanation: The slot ID specification is missing a slot number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-661 The slot number *number* in *slot_ID_specification* is greater than *maximum_slot_number*.

Explanation: The specified slot number in the slot ID specification is larger than the maximum slot number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-662 Slot number required in *slot_ID_specification*.

Explanation: The named command requires that the slot ID specification include a slot number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-663 **The slot ID specification**
slot_ID_specification **contains a frame**
number that is not valid.

Explanation: The slot ID specification contains an invalid frame number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-664 **The slot ID specification**
slot_ID_specification **is missing a frame**
number.

Explanation: The slot ID specification is missing a frame number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-665 **The frame number** *number* **in**
slot_ID_specification **is not valid.**

Explanation: The specified frame number in the slot ID specification is not a configured frame number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-666 **The slot ID specification**
slot_ID_specification **contains a node**
number that is not valid.

Explanation: The slot ID specification contains an invalid node number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-667 **The slot ID specification**
slot_ID_specification **is missing a node**
number.

Explanation: The slot ID specification is missing a node number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-668 **The node number** *number* **in**
slot_ID_specification **is not valid.**

Explanation: The specified node number in the slot ID specification is not a configured node number.

User Response: Rerun the command with a properly formatted slot ID specification.

0026-669 **Cannot obtain a service ticket for the**
Hardware Monitor.

Explanation: In order to access the Hardware Monitor you must have executed the **k4init** command (or performed equivalent procedures unique to your site). This error typically occurs when you attempt to execute the named command without first having executed **k4init**.

Another reason for this error is that the ticket obtained by **k4init** has expired. This message is preceded by another message that provides more detailed error information.

User Response: Execute the **k4init** command (or equivalent site unique procedure) and rerun the command. If the same error occurs use the detailed error message to determine the proper action.

0026-670 **Unknown hm_errno value.**

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-671 **You must specify a permission string.**

Explanation: A permission string was not specified on the command line.

User Response: Specify a permission string on the command line. A permission string consists of one or more of the letters 'v', 's', or 'm'.

0026-672 **You must specify a valid permission**
(invalid permission is not valid).

Explanation: An invalid permission string was specified on the command line.

User Response: Specify a valid permission string on the command line. A permission string consists of one or more of the letters 'v', 's', or 'm'.

0026-673 **The SDR contains a node number that**
is not valid.

Explanation: One of the objects in the Syspar_map class in the System Data Repository contains a node number that does not map to a configured frame ID, as given by the relation $(node_num+15)/16 = frame_id$.

User Response: Verify that the Syspar_map objects in the SDR contain valid node numbers.

0026-674 **The SDR contains a duplicate node number.**

Explanation: One of the objects in the **Syspar_map** class in the System Data Repository contains a node number that is a duplicate of the node number in another object in the **Syspar_map** class.

User Response: Verify that the **Syspar_map** objects in the SDR contain unique node numbers.

0026-675 **You must specify the -G flag with the "all" keyword.**

Explanation: The **hmcmds** command requires that the **-G** flag be specified with the **all** keyword.

User Response: Specify the **-G** flag or do not use the **all** keyword. Always exercise extreme caution in using the **all** keyword since you can power off the entire SP system, resulting in loss of data and termination of all jobs.

0026-676 **The *command name* VFOP command requires the -G flag.**

Explanation: The named VFOP command requires that the **-G** flag be specified on the command line.

User Response: Specify the **-G** flag on the command line.

0026-677 **You must supply parameters for hardware in the current system partition.**

Explanation: The named command expects that the parameters provided on the command line name at least one processing node in the current system partition.

User Response: If you intend to execute the named command with the parameters that you have supplied, then you must also specify the **-G** flag. None of the parameters named hardware in the current partition. Otherwise, provide parameters for hardware in the current system partition.

0026-678 **There are no application microcode files in *microcode_file_directory* that match the filter *microcode_file_filter*.**

Explanation: The named command builds a file filter of the form **u_BB.KK.VVVV** from the data contained in the base packet for the target node. The named directory did not contain a microcode file that matched the filter.

User Response: Make sure that a microcode file that matches the named filter exists in the named directory.

0026-679 **The application microcode file *microcode_file* is empty.**

Explanation: The named microcode file exists but has a length of zero.

User Response: Make sure that target node has a valid microcode file.

0026-680 **The latest level file of application microcode found is back-level from the microcode already loaded. File: *microcode_file_found*, Loaded: *microcode_file_already_loaded*. File will not be loaded.**

Explanation: The level of microcode currently loaded on the target node is more recent than the latest level of microcode found.

User Response: To install a version of microcode that is back-level from the installed version, use the **-u** command to override **hmcmds** level checking. Otherwise, make sure that a microcode file that is greater than or equal to the current level loaded exists.

0026-681 **Use of the -u flag is only allowed with the microcode command.**

Explanation: Use the **-u** flag to specify a specific microcode file that is to be loaded to the target node. The flag only has meaning when used with the named command.

User Response: Use this flag only with the named command.

0026-682 **Length of data transmitted does not match length of data echoed.**

Explanation: During the microcode download process, the target basecode supervisor echoes the data it receives back to the named command. The named command detected that the number of bytes sent did not match the number of bytes echoed.

User Response: Issue the command again. If the problem persists, contact IBM Support.

0026-683 **Checksum error detected during microcode download.**

Explanation: During the microcode download process, the target basecode supervisor calculates a checksum of the data it receives on a record by record basis. The supervisor detected a checksum error.

User Response: Issue the command again. Make sure that the file to be loaded is a supervisor microcode file that is compatible with the target slot. If the problem persists, contact the IBM Support Center.

0026-684 Byte count error detected during microcode download.

Explanation: During the microcode download process, the target basecode supervisor keeps a count of the number of bytes it expects to receive for each data transmission. The supervisor detected a byte count error.

User Response: Issue the command again. If the problem persists, contact the IBM Support Center.

0026-685 Record type not valid error detected during microcode download.

Explanation: The target basecode supervisor has detected a record type that is not valid during data transmission.

User Response: Issue the command again. Make sure the file to be loaded is a supervisor microcode file that is compatible with the target slot.

0026-686 FEEPROM erase error detected during microcode download.

Explanation: The target basecode supervisor was unable to erase the FEEPROM in preparation for the microcode download. The FEEPROM has an erase to successful rewrite threshold.

User Response: Issue the command again. If the problem persists, contact IBM Support to determine the threshold value. If the threshold limit is exceeded, replace the card.

0026-687 Verification error detected during microcode download.

Explanation: The target basecode supervisor was able to write to FEEPROM the data it received, but was unable to verify the data's integrity.

User Response: Issue the command again. If the problem persists, contact IBM Support.

0026-688 Unexpected error detected during microcode download. Error Code=*error_code*.

Explanation: An unexpected error was detected.

User Response: Save the error code information and contact the IBM Support Center.

0026-689 Frame supervisor not responding during microcode download.

Explanation: During the microcode download process, the frame supervisor echoes the data that it sends to the target basecode supervisor. The command named on the front of this message was expecting the echoed data but did not receive it.

User Response: Retry the microcode download once. If problems persist, record the above information and contact the IBM Support Center.

0026-690 System call *system_call* was unsuccessful: *system_error_message* (*error_number*).

Explanation: The named system call *system_call* failed due to the reason supplied by the *system_error_message*. The *error_number* returned by the system call is also provided.

User Response: Correct the problem indicated by the system error message. If the problem cannot be corrected contact the IBM Support Center.

0026-691 The -q, -r, -m, and -u flags are mutually exclusive.

Explanation: This message is displayed if more than one of these options is entered.

User Response: Enter only one of these options for each invocation.

0026-692 The hardware associated with the specified slot specification does not support microcode download.

Explanation: The named command works only on hardware that supports the ability to download supervisor microcode to that hardware.

User Response: Ensure the slot specification includes hardware that supports microcode download. Use the **spsvrmgr -G -r status all** command or the **smit supervisor** command to determine the hardware in your configuration that supports microcode download.

0026-693 Process *_process_id* for frame *frame_number* slot *slot_number* was unsuccessful, exit status (*exit_status*). The contents of the generated log file follows.

Explanation: When the **-u** flag is used with the named command, it creates processes that will update the specified hardware with the most current level of supervisor microcode.

This message is issued for each of those processes that failed, and is followed by the contents of the log file that was generated by the created process.

User Response: Correct the problem reported by the generated log file and try the command again. If the problem persists, record the above information and contact the IBM Support Center.

0026-694 *command_to_execute* command was not sent to frame *frame_number* slot *slot_number*.

Explanation: When the **-u** flag is used with the named command, it creates processes that are intended to update the specified hardware with the most current level of supervisor microcode.

This message is issued if a failure occurred that prevented the named command from creating the process, and is preceded by one of the following error messages, which describe the failure:

- 0026-652
- 0026-653
- 0026-679.

User Response: Correct the problem reported by the associated message and try the command again. If the problem persists, record the above information and contact the IBM Support Center.

0026-695 **Administrator intervention required. Installed supervisor and media mismatch detected. Microcode directory *media_directory* should contain microcode file *microcode_file*, which is the level currently installed in frame *frame_number* slot *slot_number*.**

Explanation: The named command has found that the level of supervisor microcode installed in the named frame number *frame_number* and slot number *slot_number* has no counter part file installed in the named microcode media directory *media_directory*.

This typically occurs when the level of microcode on the hardware is at a later level than the levels on the media. This is a mismatch condition since the process only installs microcode from the media directory unless specifically instructed to do otherwise through override flags using the **hmcmds** command.

User Response: The microcode file that was installed through overrides should be located and moved to the directory named by the *media directory* with the *file_name* named by *microcode file*.

0026-696 *argument* is not a valid argument for the *flag_name* flag.

Explanation: The named command was entered with an *argument* that is not valid for the specified flag.

User Response: Enter the command name followed by the help flag **-h** for help. Correct the command syntax and then enter the command again.

0026-697 **Unable to determine whether the Control Workstation is active, inactive, or non-HACWS.**

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

0026-698 **DCE database not modified. *error description*error code.**

Explanation: This message indicates that an error occurred when the named command called SP Security Services to modify or list the contents of the Hardmon DCE Object database.

User Response: Correct the problem described by the error description. If the problem persists, contact the IBM Support Center.

0026-699 **Internal program error, unanticipated completion response.**

Explanation: This message indicates an internal program problem.

User Response: Record the error message and contact the IBM Support Center.

0026-700 **SP Security Services Error. SP Security Services Error Code: *spsec error code* SP Security Services error message: *spsec error msg* DCE error code: *dce error code* Major/Minor *dce major/minor error codes* Unsuccessful DCE library subroutine: *dce library routine* Unsuccessful System Call errno: *system library routine*.**

Explanation: This message is issued whenever a call to the SP Security Services API results in an error condition.

User Response: Correct the problem indicated by the message. If unable to do so, or if the problem persists, contact the IBM Support Center.

0026-701 **SP Security Services Error**

Explanation: This message will be accompanied by message number 0026-414.

User Response: Correct the problem indicated by message number 0026-414. If the problem persists, contact the IBM Support Center.

0026-800 Unrecognized debug flag argument
flag_argument.

Explanation: The argument to the **-d** flag was not recognized by the Hardware Monitor Daemon.

User Response: Either specify a valid debug flag argument or remove the debug flag. Refer to the **hardmon** man page for valid debug flag arguments.

0026-801 The *flag* flag requires an argument.

Explanation: The argument for the specified flag was not supplied to the Hardware Monitor Daemon.

User Response: Either specify a valid flag argument or remove the flag. Refer to the **hardmon** man page for valid flag arguments.

0026-802 Internal error, message index *value* not valid.

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-803 Cannot get host name:
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-804 Cannot open log file *file_name*
system_error_message (error_number).

Explanation: The Hardware Monitor Daemon could not open its log file due to the reason supplied by the system error message. The error number returned by `open()` is also provided.

User Response: Correct the problem indicated by the system error message. If the problem cannot be corrected gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-805 Cannot create stream for log file.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather

information about the problem and follow local site procedures for reporting hardware and software problems.

0026-806 Cannot set buffer mode on log file.

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-807 Cannot set SIGALRM:
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-808 Cannot set signal mask:
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-809 Alarm Pipe read was unsuccessful:
system_error_message (error number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-810 Select was unsuccessful.
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPIlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-811 **Cannot block signal mask:**
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in `/var/adm/SPlogs/spmon/hardmon/core`.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-812 **Cannot establish SDR session.**

Explanation: The Hardware Monitor Daemon could not establish a session with the System Data Repository (SDR). The SDR error message follows.

User Response: Correct the problem indicated by the SDR message.

0026-813 **Cannot obtain objects from SDR class**
class_name.

Explanation: The Hardware Monitor Daemon could not obtain objects from the SDR class named in the error message. The SDR error message follows.

User Response: Ensure that the specified class is properly configured.

0026-814 **Cannot find the attribute *name* in an**
object from the SDR class *name*.

Explanation: The Hardware Monitor Daemon could not find the specified attribute in an object from the SDR class named in the error message. The SDR error message follows.

User Response: Ensure that the specified class is properly configured.

0026-815 **Unexpected data type for attribute**
name in an object from the SDR class
name.

Explanation: The Hardware Monitor Daemon found an unexpected data type for the specified attribute in an object from the SDR class named in the error message.

User Response: Ensure that the specified class is properly configured.

0026-816 **Cannot open configuration file**
file_name: system_error_message
(error_number).

Explanation: The Hardware Monitor Daemon could not open the specified file due to the reason supplied by the system error message. The error number returned by `open()` is also provided. This file supplies configuration information to the Daemon.

User Response: Correct the problem indicated by the system error message. If the problem cannot be corrected, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-817 **Missing card type in *file_name* at line**
number *number*.

Explanation: The `hmthresholds` configuration file is missing the card type value at the specified line. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-818 **Card type not valid in *file_name* at line**
number *number*: *card_type*.

Explanation: The `hmthresholds` configuration file has an invalid card type at the specified line. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-819 **Incorrect number of boundary values**
in *file_name* at line number *number*.

Explanation: The `hmthresholds` configuration file has an incorrect number of boundary values at the specified line. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-820 **Duplicate card type in *file_name* at line**
number *number*: *card_type*.

Explanation: The `hmthresholds` configuration file has a card type value at the specified line that is a duplicate of another card type in the file. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-821 **Boundary value not valid in *file_name***
at line number *number*: *card_type*.

Explanation: The `hmthresholds` configuration file has an invalid boundary value at the specified line. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-822 Not all card types have been specified in *file_name*.

Explanation: The **hmthresholds** configuration file does not contain configuration information for all supervisor card types. This file should not normally be modified by the customer.

User Response: Repair the file per the comments found at the beginning of the file. If the file cannot be repaired, then restore the file from regular system backups or restore it from the SP installation media.

0026-823 Missing field separator in tty input.

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-824 Frame ID of *frame_id* is greater than the maximum (*frame_id*) allowed.

Explanation: A frame ID has been configured in the SDR that is greater than what is permitted by the Hardware Monitor Daemon.

User Response: Verify that the SDR contains valid configuration data in the Frame object class.

0026-825 Could not allocate memory for data structure *name*.

Explanation: Memory could not be allocated for the named data structure. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

**0026-826 Cannot open tty *name*:
system_error_message (*error_number*).**

Explanation: The Hardware Monitor Daemon could not open a tty due to the reason supplied by the system error message. The error number returned by `open()` is also provided. The tty is used to communicate to a frame.

User Response: Correct the problem indicated by the system error message. If the problem cannot be corrected, gather information about the problem and

follow local site procedures for reporting hardware and software problems.

**0026-827 Cannot do TXGETLD ioctl():
system_error_message (*error_number*).**

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

**0026-828 Cannot do TXSETIHOG ioctl():
system_error_message (*error_number*).**

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

**0026-829 Cannot do TCSANOW tcsetattr():
system_error_name (*error_number*).**

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-830 Select mask is too small, file descriptor is *value*.

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-831 Missing tokens in *file_name* at line number *number*.

Explanation: The Hardware Monitor Access Control List file does not have 3 tokens at the specified line.

User Response: Correct the content of the ACL file per the man page for **hmacfs**.

0026-832 **Could not allocate memory for data structure** *name*.

Explanation: Memory could not be allocated for the named data structure.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-833 **Duplicate ACL in** *file_name* **at line number** *number*.

Explanation: The Hardware Monitor Access Control List file contains a duplicate entry at the specified line.

User Response: Remove the duplicate entry.

0026-834 **In** *file_name* **at line number** *number*, **the frame ID of** *frame_id* **is greater than the maximum** (*frame_id*) **allowed.**

Explanation: A frame ID has been configured in the ACL file that is greater than what is permitted by the Hardware Monitor Daemon.

User Response: Correct the information at the specified line number in the ACL file.

0026-835 **Permissions specified in** *file_name* **at line number** *number* **are not valid.**

Explanation: The Hardware Monitor Access Control List file contains invalid permissions at the specified line.

User Response: Correct the content of the ACL file per the man page for **hmacfs**.

0026-836 **No ACLs found in** *file_name*.

Explanation: The Hardware Monitor Access Control List file contains no data.

User Response: Correct the content of the ACL file per the man page for **hmacfs**.

0026-837 **Cannot set interval timer:**
system_error_message (error_number)

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-838 **Cannot create server socket:**
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-839 **Cannot set option on server socket:**
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-840 **Cannot bind server address:**
system_error_name (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-841 **Cannot listen on server socket:**
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-842 **Cannot do ioctl on server socket:**
system_error_message (error_number).

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-843 **Cannot write SDR error message for error *SDR_API_error_number* to log file.**

Explanation: This message indicates an internal program problem.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-844 **Selected undefined file descriptor.**

Explanation: This message indicates an internal program problem. A core file should be generated in */var/adm/SPlogs/spmon/hardmon/core*.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-845 **Garbled escape sequence on *tty_name* (Frame *number*).**

Explanation: Data received from the frame attached to the named tty contains invalid data. This error is an indication of either insufficient buffer space in the tty driver or noise on the line.

User Response: Check the error log for errors from the named tty indicating "ttyhog over-run". If such errors are found, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, verify that the RS-232 connection to the named frame is secure. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-846 **Packet buffer overflow on *tty_name* (Frame *number*).**

Explanation: Data received from the frame attached to the named tty contains invalid data. This error is an indication of either insufficient buffer space in the tty driver or noise on the line.

User Response: Check the error log for errors from the named tty indicating "ttyhog over-run". If such errors are found, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, verify that the RS-232 connection to the named frame is secure. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-847 **No data read from *tty_name* (Frame *number*).**

Explanation: This message indicates an internal program problem. The specified tty is closed; the named frame can no longer be monitored and controlled.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems. Restart the Hardware Monitor Daemon by issuing the command **hmadm quit** in order to once again monitor and control the frame.

0026-848 **Error while reading tty *tty_name* (Frame *number*): *system_error_message* (*error_number*).**

Explanation: The Hardware Monitor Daemon could not read the named tty due to the reason supplied by the system error message. The error number returned by **read()** is also provided. The specified tty is closed; the named frame can no longer be monitored and controlled.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems. Restart the Hardware Monitor Daemon by issuing the command **hmadm quit** in order to once again monitor and control the frame.

0026-849 **Missing data type/node id in packet from *tty_name* (Frame *number*).**

Explanation: Data received from the frame attached to the named tty contains invalid data. This error is an indication of either insufficient buffer space in the tty driver or noise on the line.

User Response: Check the error log for errors from the named tty indicating "ttyhog over-run". If such errors are found, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, verify that the RS-232 connection to the named frame is secure. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-850 **Data length mismatch in packet from *tty_name* (Frame *number*): *calculated = length received = length*.**

Explanation: Data received from the frame attached to the named tty contains invalid data. This error is an indication of either insufficient buffer space in the tty driver or noise on the line.

User Response: Check the error log for errors from the named tty indicating "ttyhog over-run". If such errors

are found, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, verify that the RS-232 connection to the named frame is secure. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-851 **Checksum mismatch in packet from tty *name* (Frame *number*): calculated = *checksum*, received = *checksum*.**

Explanation: Data received from the frame attached to the named tty contains invalid data. This error is an indication of either insufficient buffer space in the tty driver or noise on the line.

User Response: Check the error log for errors from the named tty indicating “tyhog over-run”. If such errors are found, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, verify that the RS-232 connection to the named frame is secure. If this error occurs repeatedly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-852 **Missing data in packet from tty *name* (Frame *number*).**

Explanation: Data received from the frame attached to the named tty has missing data. This error indicates a potential problem in the Frame Supervisor.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-853 **Unrecognized card type (*card_type*) in packet from tty *name* (Frame *number*, Slot *number*).**

Explanation: An unknown supervisor card type was discovered in data received from the named tty. This error indicates a potential problem in the Frame Supervisor or a hardware/software mismatch.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-854 **Unrecognized response type (*response_type*) in packet from tty *name* (Frame *number*).**

Explanation: An unknown response type was discovered in data received from the named tty. This error indicates a potential problem in the Frame Supervisor.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-855 **Received “data dump” response from tty *name* (Frame *number*).**

Explanation: An unexpected response was received from the named tty. This error indicates a potential problem in the Frame Supervisor.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-856 **Cannot accept client connection: *system_error_message* (*error_number*).**

Explanation: This message indicates an internal program problem. A core file should be generated in */var/adm/SPlogs/spmon/hardmon/core*.

User Response: Save the core file and error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-857 **Error in read of client message: *system_error_message* (*error_number*).**

Explanation: The Hardware Monitor Daemon could not read a message from a client due to the reason supplied by the system error message. The error number returned by read() is also provided. The connection to the client is closed.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-858 **Cannot read client command header from *client_IP_address/client_port_number*.**

Explanation: The Hardware Monitor Daemon could not read the command header in a message from the named client. The most likely cause of this error is that a non-hardware monitor program connected to the Hardware Monitor Daemon. Such a program may have connected to the Daemon if the Daemon’s server port number is being used by non-hardware monitor applications.

This error may also be an indication of an unauthorized attempt to gain access to the Monitor and Control Node. Finally, this error may indicate a program error in a hardware monitor command. The connection to the client is closed.

User Response: Verify that the Hardware Monitor Daemon’s server port number is not being used by other applications.

If this error occurs frequently or it occurs at about the same time hardware monitor commands are executed, successfully or not, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-859 Client command from *client_IP_address/client_port_number* contains invalid length in header.

Explanation: The Hardware Monitor Daemon found an invalid length in the command header of a message from the named client.

The most likely cause of this error is that a non-hardware monitor program connected to the Hardware Monitor Daemon. Such a program may have connected to the Daemon if the Daemon's server port number is being used by non-hardware monitor applications.

This error may also be an indication of an unauthorized attempt to gain access to the Monitor and Control Node. Finally, this error may indicate a program error in a hardware monitor command. The connection to the client is closed.

User Response: Verify that the Hardware Monitor Daemon's server port number is not being used by other applications.

If this error occurs frequently or it occurs at about the same time hardware monitor commands are executed, successfully or not, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-860 Client command received from *client_IP_address/client port number* is out of sequence.

Explanation: The Hardware Monitor Daemon received a command from the named client in the wrong order. This error may be an indication of an unauthorized attempt to gain access to the Monitor and Control Node.

Otherwise, this error may indicate a program error in a hardware monitor command. The connection to the client is closed.

User Response: If this error occurs frequently or it occurs at about the same time hardware monitor commands are executed, successfully or not, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-861 Unrecognized client command received from *client_user_name* at *client_IP_address/client_port_number*.

Explanation: The Hardware Monitor Daemon received an unrecognized command from the named client. This error may be an indication of an unauthorized attempt to

gain access to the Monitor and Control Node.

Otherwise, this error may indicate a program error in a hardware monitor command. The connection to the client is closed.

User Response: If this error occurs frequently or it occurs at about the same time hardware monitor commands are executed, successfully or not, then gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-862 Error on write of client message: *system_error_message (error_number)*.

Explanation: The Hardware Monitor Daemon could not write a message to a client due to the reason supplied by the system error message. The error number returned by write() is also provided. The connection to the client is closed.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-863 Cannot send message to client *client_user_name* at *client_IP_address/client_port_number*.

Explanation: The Hardware Monitor Daemon could not write a message to the named client. The connection to the client is closed.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-864 Arguments in client command *client_command* from *client_user_name/client_port_number* are not valid.

Explanation: The Hardware Monitor Daemon received the specified command containing invalid arguments from the named client. This error may be an indication of an unauthorized attempt to gain access to the Monitor and Control Node.

Otherwise, this error may indicate a program error in a hardware monitor command. The connection to the client is closed.

User Response: If this error occurs frequently or it occurs at about the same time hardware monitor commands are executed, successfully or not, then gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-865 **Could not schedule command**
client_command to **Frame number**.

Explanation: The Hardware Monitor Daemon could not schedule the named command to be sent to the specified frame. This error occurs if a command was received by the Daemon before it received the response to the first poll to the frame.

The most likely cause of this error is that the tty device for the RS-232 link connected to the specified frame could not be opened or the RS-232 connection is bad. A less likely cause of this error is that a Hardware Monitor command, e.g. **spmon** or **hmcnds**, is executed immediately after the Hardware Monitor Daemon is started.

User Response: If error message 0026-826 is found, follow the action for that error. Otherwise, verify that the RS-232 link is properly connected.

0026-866 **Error while writing to tty *name*.** (**Frame number**): *system_error_message* (*error_number*).

Explanation: The Hardware Monitor Daemon could not write to the named tty due to the reason supplied by the system error message. The error number returned by write() is also provided. The specified tty is closed; the named frame can no longer be monitored and controlled.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems. Restart the Hardware Monitor Daemon by issuing the command **hmadm quit** in order to once again monitor and control the frame.

0026-867 **Short count on write to *tty_name***
(**Frame number**).

Explanation: This message indicates an internal program problem. The specified tty is closed; the named frame can no longer be monitored and controlled.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems. Restart the Hardware Monitor Daemon by issuing the command **hmadm quit** in order to once again monitor and control the frame.

0026-868 **Unrecognized debug flag *flag* specified**
in command *client_command*.

Explanation: The Hardware Monitor Daemon detected an unrecognized debug flag in the specified client command.

User Response: Use only documented debug flags when executing the **hmadm** command.

0026-869 **Internal error - ttycb list is not valid.**

Explanation: This message indicates an internal program problem. A core file should be generated in **/var/adm/SPlugs/spmon/hardmon/core**.

User Response: Save the core file and the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-870 **Error in ioctl to tty *name* (Frame number):** *system_error_message* (*error_number*).

Explanation: The Hardware Monitor Daemon could not issue an ioctl to the named tty due to the reason supplied by the system error message. The error number returned by ioctl() is also provided.

User Response: Save the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-871 **Unexpected supervisor type**
(*supervisor_type*) found in slot *number*
of frame *number*.

Explanation: The Hardware Monitor Daemon attempted to send a command to a supervisor type that is not expected in the specified slot number, i.e., a switch in an odd slot in a switch-only frame or a processing node in slot 17. The implication is that the I2C bus has not been properly connected to the nodes in the specified frame.

User Response: Verify that the I2C bus has been properly connected in the specified frame. If the I2C bus is properly connected, then gather information about the problem and follow local site procedures for reporting hardware and software problems.

0026-872 **Name in *file_name* at line number**
line_number is not valid.

Explanation: The Hardware Monitor Access Control List file has a format error at the specified line; the user name is not of the form *name.instance*.

User Response: Correct the content of the ACL file per the documentation for **/etc/hmacls**.

0026-873 **Frame ID mismatch: *tty* is configured in**
the SDR as **Frame *configured frame ID*,**
but the *tty* is apparently cabled to
Frame *hardware frame ID*.

Explanation: The hardware frame ID is maintained in twin-tail capable frame supervisor cards. The Hardware Monitor Daemon has detected a mismatch between the hardware frame ID in the supervisor card and the configured frame ID as found in the SDR.

User Response: If the frame is connected to both the Control Workstation and to a backup Control Workstation, verify that each RS-232 cable is connected to ports on the workstations that are assigned the frame's **/dev/ttyN** name as configured in the frame's SDR Frame Object.

If the RS-232 connections are correct or the frame is connected to only one workstation, then execute the **hmcmds** command to set the hardware frame ID in the frame supervisor card. Refer to the documentation for the Highly Available Control Workstation (HACWS).

If the hardware frame ID is zero or is a number that does not match any existing frame, it is possible that the hardware frame ID was never initialized. As above, verify the RS-232 connections and then execute the **hmcmds** command to set the hardware frame ID.

Until this condition is corrected, any commands to the frame or to the processors and switch within the frame, are ignored.

0026-874 Unable to determine whether the control workstation is active, inactive, or non-HACWS.

Explanation: This message indicates an internal program problem. Generate a core file in **/var/adm/SPlogs/spmon/hardmon/core**. In addition, this message may be issued if the node number was not set in the Object Data Manager (ODM) after restoring the control workstation from a **mksysb**.

User Response: Save the core file and the error message, gather information about the problem and follow local site procedures for reporting hardware and software problems. If you restored the control workstation from a **mksysb** and you did not run **install_cw**, issue the command now to correct the control workstation configuration.

0026-875 The Hardware Monitor can only execute on an active, or non-HACWS control workstation in non-diagnostic mode.

Explanation: The control workstation is either in primary inactive state or backup inactive state. The Hardware Monitor was started in non-diagnostic mode or "monitor" mode. The Hardware Monitor requires an active state, or non-HACWS state to run to run in monitor mode.

User Response: Configure the control workstation to be in either primary active state, backup active state, or non-HACWS state. Or, restart the Hardware Monitor on a control workstation that is already configured in an active state or non-HACWS state.

0026-876 Unexpected number of nodes in packet from tty *tty_name* (Frame *frame_number*): expected = *expected_nodes*, received = *received_nodes*.

Explanation: The data received from the named tty was for a number of nodes that is not equal to the maximum number of nodes allowed for a single frame. This error indicates a potential problem in the Frame Supervisor.

User Response: Contact the IBM Support Center.

0026-877 Unexpected size of packet (*number_of_packet_bytes*) from node (*node_id*), tty *tty_name* (Frame *frame_number*).

Explanation: The amount of data received from the named node for the named tty was less than zero or greater than the maximum allowed. This error indicates a potential problem in the Frame Supervisor.

User Response: Contact the IBM Support Center.

0026-878 Packet size mismatch from node (*node_id*), tty *tty_name* (Frame *frame_number*): expected = *expected_size*, received = *received_size*.

Explanation: The amount of data received from the specified node for the specified tty was not equal to the size expected. This error indicates a potential problem in the Frame Supervisor.

User Response: Record the above information and contact the IBM Support Center.

0026-879 Ignoring duplicate frame data obtained from the SDR Frame class for frame *frame_number*.

Explanation: The specified frame number was found as a duplicate in the SDR Frame class. This is a configuration error. The Hardware Monitor daemon successfully ignores this duplicate information.

User Response: Ensure that the specified class is properly configured.

0026-880 The SDR Frame class for Frame (*frame_number*) contains a hardware protocol value (*hardware_protocol_value*) that is not recognized.

Explanation: The specified hardware protocol value is either not one of the currently recognized values or is blank. This is a configuration error. The Hardware Monitor will not attempt to communicate to the specified frame number.

User Response: Ensure that the specified class is

properly configured and then restart the Hardware Monitor daemon.

0026-881 *system error message (error number)*
Unable to establish socket connection for daemon name for tty name (Frame frame number).

Explanation: The specified system error message and error number describe the reason for the failure of the AIX **socketpair()** system call. This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-882 **Cannot do F_GETFL fcntl(): system error message (error number).**

Explanation: This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-883 **Cannot do F_SETFL fcntl(): system error message (error number).**

Explanation: This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-884 *system error message (error number)*
Unable to create a process for daemon name for tty name (Frame frame number).

Explanation: The specified system error message and error number describe the reason for the failure of the AIX **fork()** system call. This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-885 *system error message (error number)*
Unable to dispatch daemon name for tty name (Frame frame number).

Explanation: The named system error message and error number describe the reason for the failure of the AIX **exec()** system call. This message indicates an

internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-886 **Internal error, child process (process id) terminated but process is unknown to Hardmon.**

Explanation: The Hardware Monitor received a signal that one of its dispatched processes, probably a hardware protocol daemon, has terminated, but the process, named by the process ID, is unknown.

This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-887 *system error message (error number)*
Unable to determine process id of terminated process.

Explanation: The specified system error message and error number describe the reason for the failure of the AIX **waitpid()** system call.

This message indicates an internal program problem. A core file is generated in **/var/adm/SPlogs/spmon/hardmon/core**.

User Response: Restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-888 *daemon name (process id) ended due to signal (signal number) on tty name (Frame frame number).*

Explanation: The specified daemon ended due to the above signal number. Since the signal number was not 15 (SIGTERM), the Hardware Monitor did not attempt a restart of the daemon. Possible causes of this error are:

- An internal error occurred in the daemon.
- The named process ID was the target of the **kill** command.

User Response: To restart the daemon, you must restart the Hardware Monitor. If the problem persists, save the core file and error message and contact the IBM Support Center.

0026-889 *daemon name (process id) ended (return code) on tty name (Frame frame number) - restartlimit (restart limit) is exceeded.*

Explanation: The specified daemon ended with the indicated return code. The return code is known to be associated with a recoverable error.

Had the restart limit not been exceeded, the Hardware Monitor would have restarted the daemon. This error is most likely the result of a repetitive internal error in the daemon.

User Response: To restart the daemon, you must restart the Hardware Monitor. If the problem persists, record the above information and contact the IBM Support Center.

0026-890 *daemon name (process id) ended with status (error status) on tty name (Frame frame number).*

Explanation: The specified daemon ended with the indicated status number. Since the status was not a restartable status, the Hardware Monitor does not attempt a restart. This error is most likely the result of an internal error in the daemon.

User Response: To restart the daemon you must restart the Hardware Monitor. If the problem persists, record the above information and contact the IBM Support Center.

0026-891 **Pthread initialization error system error message error number**

Explanation: This message indicates an internal program problem. A core file should be generated in /var/adm/SPlogs/spmon/hardmon/core.

User Response: Save the core file and the error message and contact the IBM Support Center.

0026-892 **Unexpected signal caught: signal signal**

Explanation: This message indicates that an unexpected signal was detected by the Hardware Monitor daemon.

User Response: Processing continues but the action is not performed. If the problem persists, save the error message and contact the IBM Support Center.

0026-893 **SP Security Services Error. timestamp SP Security Services error code: spsec error code SP Security Services error message: spsec error msg DCE error code: dce error code Unsuccessful DCE library subroutine: dce library routine Unsuccessful System Call errno:system library routine.**

Explanation: This message is issued whenever a call to the SP Security Services API results in an error condition. Due to the size of the message, this message is written to Hardmon's log file (/var/adm/SPlogs/spmon/hm_logfile.jjjj) where jjj is the Julian date. In addition, message 0026-900 is written to errpt as an indicator that 0026-893 was written to Hardmon's log file. The most likely cause is Hardmon's inability to configure or initialize DCE.

User Response: Correct the problem indicated by the message. If unable to do so or if the problem persists, contact the IBM Support Center.

0026-894 **Cannot obtain the authentication methods in use on the local host: spsec_get_ts_authent ended in error spsec_get_ts_authent error code.**

Explanation: Hardmon was not able to ascertain what, if any, authentication methods were in use on the local host due to a spsec_get_ts_authent () library function error.

User Response: This is most likely an error internal to spsec_get_ts_authent (). Contact the IBM Support Center.

0026-895 **The Hardmon DCE Object Database database name is unuseable: The minimum number of DCE objects (2) [system/hardmon] are not accounted for.**

Explanation: Hardmon, during its DCE object database initialization, found that one or both of the default objects (system or hardmon) did not exist. Hardmon continues but considers DCE an unusable security interface.

User Response: This is most likely a configuration error. Try reconfiguring DCE. If the problem persists, contact the IBM Support Center.

0026-896 **The Hardmon DCE Object Database database name is unuseable: A slot number was found slot number that is not within the valid range slot number range.**

Explanation: Hardmon, during its DCE object database initialization, found an object who's slot number was out of range. Hardmon continues but

considers DCE an unusable security interface.

User Response: This is most likely a configuration error. Try reconfiguring DCE. If the problem persists, contact the IBM Support Center.

0026-897 **The Hardmon DCE Object Database database name is unuseable: A frame number was found *frame number* that is not within the valid range *frame number range*.**

Explanation: Hardmon, during its DCE object database initialization, found an object whose frame number was out of range. Hardmon continues but considers DCE an unusable security interface.

User Response: This is most likely a configuration error. Try reconfiguring DCE. If the problem persists, contact the IBM Support Center.

0026-898 **The Hardmon DCE Object Database database name is unuseable: An entry was found that was unrecognizable. It neither started with the phrase "*frame*", nor contained the word "*slot*".**

Explanation: Hardmon, during its DCE object database initialization, found an object that was unrecognizable.

User Response: This is most likely a configuration error. Try reconfiguring DCE. If the problem persists, contact the IBM Support Center.

0026-899 **The Hardmon DCE Object Database database name is unuseable: ACL check did not succeed due to absence of *missing object*.**

Explanation: Hardmon, during its DCE object database initialization, found that the named missed object did not exist in the named database. Since the named object is a default, hardmon does not authorize this request.

User Response: This is most likely a configuration error. Try reconfiguring DCE. If the problem persists, contact the IBM Support Center.

0026-900 **SP Security Services Error. See detailed message *message number* in log file *name*.**

Explanation: This message is written to errpt as an indicator that the message indicated by *message number* was written to the log file indicated by *log file name*.

User Response: Refer to the message indicated by *message number* in the log file indicated by *log file name*.

0026-903 ***daemon name [process id]* ended (*status*) on *hmc [hmc ip address]* - restart limit (*restart limit*) is exceeded.**

Explanation: The specified *daemon name* hardware protocol driver ended with the specified status number. Since this status was not a restartable status, the Hardware Monitor does not attempt a restart. This error is likely the result of an internal error in the named daemon.

User Response: To restart the named daemon, you must restart the Hardware Monitor. If problem persists, record the above information and contact the IBM Support Center.

Chapter 10. 0027 - User administration messages

0027-111 User *user name* already exists.

Explanation: This name is already associated with another user.

User Response: Choose another user name.

0027-112 User ID *user id* already exists.

Explanation: This user id is already assigned to another user.

User Response: Choose another user id.

0027-113 Permission denied; you must be the root user to execute.

Explanation: This command requires **root** authority.

User Response: Switch to the **root** user and re-execute the command.

0027-114 Primary group is undefined: *group number or name*

Explanation: An undefined login group was specified for the user.

User Response: If the specified group or default group in `/usr/lpp/ssp/admin/spmkuser.default` does not exist in `/etc/group`, add it there.

0027-115 A specified group is undefined: *group number or name*

Explanation: An undefined secondary group was specified for the user.

User Response: If the specified group or default groups listed in `/usr/lpp/ssp/admin/spmkuser.default` do not exist in `/etc/group`, add them there.

0027-116 User *user name* does not exist.

Explanation: Requested target user is not defined. No action could be taken.

User Response: Check that you have typed the *user name* correctly or add an account for this user name by issuing the `spmkuser` command.

0027-117 Action *action type* cancelled.

Explanation: Transaction has successfully been cancelled at the user's request.

User Response: No further action is necessary.

0027-118 File *file name* in use.

Explanation: The specified file has been locked by another program.

User Response: If that program has completed and a lock file (**file name.lock**) exists, remove it.

0027-119 Invalid characters specified in *fieldname* parameter.

Explanation: For the given parameter, the specified value is badly formed.

User Response: Check the syntax information on acceptable values for this parameter. If no value was specified, check the default value in `/usr/lpp/ssp/admin/spmkuser.default`.

0027-120 Unknown attribute specified: *attribute name*

Explanation: An unacceptable attribute was given for the command

User Response: Check the syntax of the command for acceptable parameters and re-execute.

0027-121 Unsupported attribute specified: *attribute name*.

Explanation: Some parameters of the AIX user administration commands are not supported by the SP versions of these commands.

User Response: Check the syntax of the command you wish to execute for the acceptable parameters and re-execute command.

0027-122 Attention: User directory *path* is in an unexported filesystem on *hostname*.

Explanation: The host, where the user's home directory has been created, does not contain an entry to export the parent directory to other machines.

User Response: Add an entry to export that directory in `/etc/exports` and execute `exportfs -a`.

0027-123 Unsupported option specified: *option*

Explanation: The specified option flag is not supported by this command. Some option flags of the AIX user administration commands are not supported by the SP versions of these commands.

User Response: Check the syntax of the command for the acceptable option flags and re-execute the command.

0027-124 File *file name* does not exist.

Explanation: The specified file does not exist.

User Response: Issue the command `splstdata -e` to check the value of the `PASSWD_FILE` attribute of the SP object. The `site_environment` file no longer exists.

0027-125 Cannot create user home directory. Target host specified for user home directory unknown or not responding.

Explanation: A connection to the target host specified could not be made at this time.

User Response: Check the target machine and network connections.

0027-126 Cannot create user home directory. Target host specified for user home directory denied access. Check permissions at target.

Explanation: The `.rhosts` file at the target machine requires permissions for `root` from the machine executing the command.

User Response: Check that permissions have been set correctly.

0027-127 Cannot remove user home directory. Target host specified for user home directory unknown or not responding.

Explanation: The target host specified does not exist or its name can not be resolved at this time.

User Response: Check the name and your host name resolution configuration.

0027-128 Cannot remove user home directory. Target host specified for user home directory denied access. Check permissions at target.

Explanation: The `.rhosts` file at the target machine requires permissions for `root` from the machine executing the command.

User Response: If the permissions have not been set correctly, set them correctly.

0027-153 The user administration function is already in use.

Explanation: Another of the SP user administration commands is currently using some of the common resources required.

User Response: Wait until the command has completed. If this message appears immediately following an abnormal termination of these previously mentioned commands, remove the

`/usr/lpp/ssp/config/admin/.userlock` file.

0027-154 Unknown attribute *attribute name* specified in the user defaults file *file name*.

Explanation: An unknown or unsupported attribute has been specified in the `/usr/lpp/ssp/admin/spmkuser.default` file.

User Response: Check the attributes table in the chapter on managing user accounts in *PSSP: Administration Guide* for possible attributes as well as initial defaults. Modify the `spmkuser.defaults` file appropriately.

0027-155 File permissions not correctly set: *file name*

Explanation: The specified file requires a level of protection that does not compromise security. The file currently exists but the permissions are not set correctly.

User Response: Save any existing data to a safe place and remove this file. A new one with the appropriate permissions will be created.

0027-159 The user name and the home directory do not correspond. The automounter implementation requires the last component of the directory to be the user name.

Explanation: The user name and home directory do not correspond.

User Response: Ensure that the last component of the directory is the user name.

0027-160 Unable to create or set proper ownership on the home directory for *user name*.

Explanation: Unable to create or set proper ownership on the home directory for an unexpected reason.

User Response: Contact the IBM Support Center.

0027-161 Unable to remove the home directory for *user name*.

Explanation: While attempting to remove the user's home directory using `rm -r home_directory_path`, an error occurred.

User Response: Check to ensure the home directory exists. If it does not, it was removed prior to this command and no further action is necessary. Otherwise, inspect the home directory path's owner, group, and permissions to understand what may be causing the problem.

0027-162 Cannot access repository.

Explanation: The routine could not access the System Data Repository. The routine halts.

User Response: Refer to the chapter on diagnosing system monitor problems in the *PSSP: Diagnosis Guide*.

0027-163 You are only permitted to change your password.

Explanation: On the current machine for which you are logged in, you can only change your password. You cannot fully log in to that machine.

User Response: Contact your administrator if you want to fully log in to the machine, or log in to another SP node.

0027-164 User *user name* not removed. Need to increase root filesystem size, then try `sprouser` again.

Explanation: The user specified was not removed.

User Response: Increase the root file system size and reissue the `sprouser` command.

0027-165 User *user name* not changed.

Explanation: The user specified was not changed.

User Response: Increase the root file system size and reissue the `spchuser` command.

0027-166 User *user name* not added.

Explanation: The user specified was not added.

User Response: Increase the root file system size and reissue the `spaduser` command.

0027-167 Syntax of *arguments passed to mkhomedir*.

Explanation: There was an internal error when the `mkhomedir` routine was called with the specified arguments.

User Response: Contact the IBM Support Center.

0027-169 Command unsuccessful. Write to `/tmp` unsuccessful. `/tmp` may be full.

Explanation: An attempt to write to `/tmp` was unsuccessful. The most likely reason for this is that `/tmp` is full. The `spmuser`, `spchuser`, or `sprouser` command does not succeed, and `passwd` and `group` files are left in their original state.

User Response: Make additional space in `/tmp` and retry the command.

0027-170 Command unsuccessful. Not enough room in `/tmp`.

Explanation: There is not enough space in `/tmp` to complete the command. The `spmuser`, `spchuser`, or `sprouser` command does not succeed, and `passwd` and `group` files are left in their original state.

User Response: Make additional space in `/tmp` and retry the command.

Chapter 11. 0028 - Switch support messages

0028-001 Primary node not defined - use "Eprimary".

Explanation: A primary node must be assigned before running **Estart**.

User Response: See the **Eprimary** command in *PSSP: Command and Technical Reference* for information on how to assign a primary node.

0028-002 Cannot ping the primary node: primary node.

Explanation: The primary node cannot be pinged.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide* for information on verifying the primary node.

0028-003 Switch initialization failed on hostname - i_stub call error.

Explanation: Internal error.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-004 Switch initialization failed on hostname - insufficient memory.

Explanation: Internal error.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-005 Switch initialization failed on hostname - daemon busy. Retry command.

Explanation: Fault service daemon is busy processing a request.

User Response: Retry command.

0028-006 Switch initialization failed on hostname - i_stub problem.

Explanation: Internal error.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-007 Switch initialization limit second time limit exceeded.

Explanation: **Estart** processing has exceeded allowable time limit.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-008 Cannot access system data repository.

Explanation: Cannot access system data repository.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-009 You have specified an invalid number of arguments.

Explanation: You have specified an incorrect number of arguments.

User Response: Check syntax and enter the command again.

0028-010 The node identifier for primary/backup node node id could not be found in the repository.

Explanation: The node you specified as primary is not valid.

User Response: Check the name of the node that you want to be the primary node.

0028-011 You have specified an invalid starting frame number.

Explanation: The starting frame number you specified is not valid.

User Response: Check that the frame number you specified is in your configuration.

0028-012 You have specified an invalid starting slot number.

Explanation: The starting slot you specified is out of range (1 to 16).

User Response: Specify a starting slot number in the valid range.

0028-013 You have specified an invalid node count.

Explanation: The number of nodes you specified is out of range.

User Response: Specify a number greater than zero and less than the number of maximum nodes.

0028-014 Start node plus count must not exceed the maximum number of nodes.

Explanation: The number specified is not a valid number.

User Response: Specify a number less than the maximum number of nodes.

0028-015 The specified protocol is not valid.

Explanation: You have specified a protocol which is not valid.

User Response: Enter the command again using the correct syntax.

0028-016 Node to be changed could not be found in the repository.

Explanation: The node you specified is not valid.

User Response: Check the name of the node for which you want to change the protocol and enter the command again.

0028-017 Unable to store topology file in SDR.

Explanation: SDRCreateFile was not successful storing the topology file.

User Response: Check that System Data Repository is operating correctly.

0028-018 Unable to modify Switch_partition object in SDR.

Explanation: SDRChangeAttrValues was not successful for **Switch_partition** object. (Switch partitions are not supported.)

User Response: Check that System Data Repository is operating correctly.

0028-019 Unable to query Switch_partition object in SDR.

Explanation: SDRGetObjects was not successful for **Switch_partition** object. (Switch partitions are not supported.)

User Response: Check that System Data Repository is operating correctly.

0028-020 Unable to retrieve the topology file out of SDR.

Explanation: Unable to retrieve the topology file out of the System Data Repository.

User Response: Check that the System Data Repository is operating correctly.

0028-021 topology_file_name is not valid.

Explanation: The specified topology file does not exist.

User Response: Check that the specified *topology_file_name* exists.

0028-022 Unable to create Switch_partition object.

Explanation: SDRCreateObjects was not successful for **Switch_partition** object.

User Response: Check that the System Data Repository is operating correctly.

0028-023 fault_service_Worm_RTG daemon not running on primary node.

Explanation: The fault_service_Worm_RTG daemon not running on primary node.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-024 No reliable hostname defined for this node in SDR.

Explanation: A reliable hostname is not defined for this node in SDR Node Object.

User Response: Define a reliable hostname for this node.

0028-025 A primary or backup value in the Switch_partition is null or not valid.

Explanation: One of the primary or backup values for the switch primary node is not valid and is probably null.

User Response: Set the primary or backup value with the **Eprimary** command.

0028-027 Cannot ping the primary backup node, cannot Estart: node_name.

Explanation: The oncoming primary backup node specified for the SP switch is not available.

User Response: Check the oncoming primary backup node and select another node if necessary.

0028-028 Fault service worm not up on oncoming primary node, cannot Estart: node_name.

Explanation: The **worm** daemon on the oncoming primary node is not available. This message may also be issued if **Estart** is unable to issue the remote command to the oncoming primary node.

User Response: Run **rc.switch** again on the

oncoming primary node or use the **Eprimary** command to choose another node.

0028-029 **Fault service worm not up on oncoming primary backup node, cannot Estart: *node_name*.**

Explanation: The **worm** daemon on the oncoming primary backup node is not available.

User Response: Run **rc.switch** again on the oncoming primary backup node or use the **Eprimary** command to choose another node. If the problem is due to a remote command error, check the Kerberos authentication setup.

0028-030 **css0 IP driver failed to detach.**

Explanation: The **css0** IP driver did not detach.

User Response: Issue the command again. If the problem persists, contact the IBM Support Center.

0028-031 **css0 unconfiguration method failed.**

Explanation: The **css0** unconfiguration method was not successful.

User Response: Issue the command again. If the problem persists, contact the IBM Support Center.

0028-032 **css0 configuration method failed.**

Explanation: The **css0** configuration method was not successful.

User Response: Issue the command again. If the problem persists, contact the IBM Support Center.

0028-033 **rc.switch failed. See /var/adm/SPlogs/css/rc.switch.log for more information.**

Explanation: The **rc.switch** was not successful. The worm daemon is not running.

User Response: Review **/var/adm/SPlogs/css/rc.switch.log** for more information.

0028-034 **Unable to delete existing topology file from SDR. Return code=*SDRDeleteFile return code*.**

Explanation: **SDRDeleteFile** issued a return code indicating a problem exists.

User Response: Check the meaning of the System Data Repository return code and take the appropriate action.

0028-035 **Oncoming primary node is fenced, cannot Estart: *node_name*.**

Explanation: The oncoming primary node that **Estart** uses is fenced.

User Response: Check the node. Use the **Eprimary** command to select another oncoming primary node, if necessary.

0028-036 **No functional switch primary node, run Estart.**

Explanation: There is no node running as the primary. This is the initial state of the system, or the state when **rc.switch** is run on the current primary node. This state also occurs when a primary node is taking over control.

User Response: Use the **Eprimary** command for additional information. If necessary, run the **Estart** command.

0028-037 **The switch partition is not valid.**

Explanation: The **SP_NAME** shell variable is not set to a valid system partition name.

User Response: Set the **SP_NAME** shell variable and then issue the command again.

0028-038 **Note: Oncoming primary node is fenced *primary node name*.**

Explanation: The oncoming primary node that the **Estart** command uses is fenced.

User Response: Make sure that the oncoming primary node is not fenced before the **Estart** command uses it.

0028-039 **Note: Fault service worm not up on oncoming primary node: *primary node name*.**

Explanation: The worm daemon on the oncoming primary node is not available.

User Response: Make sure that the oncoming primary node is available before the **Estart** command uses it.

0028-040 **Note: Oncoming primary backup node is fenced.**

Explanation: The oncoming primary backup node is fenced off.

User Response: Make sure that the oncoming primary backup node is not fenced before **Estart** uses it.

0028-041 Oncoming primary and oncoming primary backup cannot be the same node.

Explanation: The nodes specified on the command line for oncoming primary and oncoming backup primary are the same. The oncoming primary and oncoming primary backup cannot be the same node.

User Response: Select either another primary node or primary backup node.

0028-042 Cannot change personality on node *node_name*.

Explanation: The personality of the specified primary or backup node cannot be changed to that of a secondary node. Either the node is unreachable using the remote command, or the fault service worm daemon is not running on the node.

User Response: The **Estart** or **Equiesce** command continues. If an **Estart** command was issued, the node may be fenced if the worm daemon is down. Start the worm daemon on the node and issue **Eunfence**. If the problem is due to a remote command error, check the Kerberos authentication setup.

0028-043 Primary backup node *node_name* busy. Retry command later.

Explanation: The daemon would not accept the change personality command because the primary backup node is busy. Either a primary or backup primary node takeover is occurring.

User Response: The **Estart** or **Equiesce** was not successful. Issue the command again later.

0028-044 Unable to find suitable primary backup node. No primary backup node running.

Explanation: The oncoming primary backup node in the System Data Repository was not available. Either the Ethernet is down, the daemon is not running, or the primary backup node is fenced. The switch attempted to choose another node, but was not able to find an available node. The switch is running on the primary node.

User Response: **Estart** continues. Make sure that you intend to run only on the one node. If the reason a primary backup node could not be assigned is because the nodes are fenced, run **Eunfence** to unfence one or more nodes and then issue **Estart** again.

0028-045 Expected.top file contains nodes outside the current partition, cannot start switch.

Explanation: The **expected.top** file resides in **/etc/SP** on the primary node.

User Response: **Estart** continues. Make sure that you intend to run on only the one node.

0028-046 Cannot ping the primary backup node: *primary_backup_node*.

Explanation: The primary backup node cannot be pinged.

User Response: For information on verifying the primary node, see the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-047 Note: Fault service worm not up on oncoming primary backup node: *primary_backup_node_name*.

Explanation: The worm daemon on the oncoming primary backup node is not available.

User Response: Make sure that the worm daemon is available before **Estart** uses it.

0028-048 Primary node *node_name* busy. Retry command later.

Explanation: The daemon would not accept the change personality command because the primary node is busy. Either a primary or backup primary node takeover is occurring.

User Response: The **Estart** or **Equiesce** command was not successful. Issue the command again later.

0028-049 Command not valid on switchless system.

Explanation: This command is used to manage the switch and is, therefore, only valid on a system with a switch installed.

User Response: Issue the command only on systems with a switch installed.

0028-050 The combination of command arguments is not valid.

Explanation: You have specified an incorrect combination of command arguments.

User Response: Check syntax and enter the command again.

0028-051 You have specified an incorrect switch number.

Explanation: The switch number that you have specified is out of range.

User Response: Correct the switch number and enter the command again.

0028-052 You have specified an incorrect switch clock input.

Explanation: The switch number that you have specified is out of range (0 to 3).

User Response: Correct the switch clock input value and enter the command again.

0028-053 Issuing the command *command* gave a return code of *return code*.

Explanation: The **Eclock** command error was due to the error of the *command* used by **Eclock**.

User Response: Check the return code of the failing command and follow those actions; when complete, retry the **Eclock** command.

0028-054 The switch number *switch number* is currently not powered on.

Explanation: The switch *switch number* is not powered on, so the requested action was not completed.

User Response: Power on the switch and issue the command again.

0028-055 Topology file contains an incorrect number of switch clock input statements.

Explanation: The topology file you specified does not match the current SP configuration.

User Response: Select the correct topology file and issue the command again.

0028-056 The switch number *switch number* clock input has changed to *clock input*, updating the System Data Repository (SDR).

Explanation: The Error Logging daemon has detected a change in the clock input value for switch *switch number*, and has invoked a state change handler to reflect the new value in the System Data Repository.

User Response: None.

0028-057 The switch number *switch number* has been powered-on. Setting the clock input value to *clock input*.

Explanation: The Error Logging daemon has detected switch *x* being powered on, and has invoked a state change handler that sets the correct multiplexor (mux) value.

User Response: None.

0028-058 You have specified an invalid switch number.

Explanation: The switch number you specified is not valid.

User Response: Make sure that the switch number you specify is in your configuration.

0028-060 Emonitor must be run from the control workstation.

Explanation: The **Emonitor** command cannot be run from a node. Run it from the control workstation.

User Response: Issue the **Emonitor** command from the control workstation.

0028-061 Estart is being issued to the primary node: *primary node*.

Explanation: The **Estart_sw** command has been sent to the specified primary node via a remote command.

User Response: None.

0028-062 The switch in frame *frame number*, slot *slot number* currently not receiving a clocking signal on the cable attached to *jack number*.

Explanation: During **Eclock** command processing, it was discovered that one of the cables carrying the clocking signal is unplugged, missing, and/or damaged.

User Response: Check the cable specified in the message.

0028-063 The System Data Repository (SDR) does not contain valid clock settings for the switch network. Reissue the command specifying a valid clock topology filename.

Explanation: During **Eclock** command processing, it was discovered that the System Data Repository (SDR) does not contain valid clock settings for this switch. The **Eclock -r** command is valid only when a topology file has been previously specified.

User Response: Issue the **Eclock** command with the **-f** flag to specify a topology file.

0028-064 The switch in frame *frame number*, slot *jack number*, is currently not receiving a clocking signal from its internal oscillator.

Explanation: During **Eclock** command processing, it was discovered that one of the switch board oscillators is not functioning properly.

User Response: Check the specified cable.

0028-065 The frame number *frame number* is currently not powered on.

Explanation: During **Eclock** command processing, it was discovered that one of the frames in the SP Switch network is not powered on.

User Response: Check the specified frame.

0028-066 The controller in frame number *frame number* is currently not responding.

Explanation: During **Eclock** command processing it was discovered that one of the frame controllers is not responding.

User Response: Check the specified frame.

0028-067 The node identifier specified is not eligible to be a Primary or Primary Backup node.

Explanation: During **Eprimary** command processing, it has been determined that a dependent node has been specified either for the primary or the primary backup node. This is not allowed.

User Response: Check the specified node number and reissue the command using a standard SP node.

0028-068 Unable to query Switch object in SDR.

Explanation: An **SDRGetObjects** command did not succeed for Switch object.

User Response: Check that the System Data Repository is operating correctly.

0028-069 Invalid clock alternate topology number *alt_top_number* specified.

Explanation: The alternate topology number specified was greater than the number of switches in the system; or the alternate topology number was not found in the topology file.

User Response: Reissue the **Eclock** command using a correct alternate topology number and topology file name.

0028-070 Unable to Estart, the clock source for one or more switch boards has changed. Eclock must be run to reestablish the clock distribution of the switch clock network.

Explanation: The switch clock source has been changed to a value that may differ from what was set with the last **Eclock** command. This can cause a problem in a subsequent **Estart** commands if an **Eclock** command is not run prior to the **Estart** command.

User Response: Run the **Eclock** command then

reissue the **Estart** command.

0028-071 Switch initialization failed. The **fault_service_Worm_RTG_SP** daemon exited due to errors. See **/var/adm/SPlogs/css/flt** file for more information.

Explanation: Switch initialization was not successful. The **fault_service_Worm_RTG_SP** daemon has encountered errors and has exited.

User Response: Review the **/var/adm/SPlogs/css/flt** file. See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-073 Switch initialization ss second time limit exceeded. The **fault_service_Worm_RTG_SP** daemon is continuing to attempt to initialize the switch. See **/var/adm/SPlogs/css/flt** for more information.

Explanation: **Estart** processing has exceeded the allowable time limit.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-075 Could not distribute the topology file to these nodes. They may not come up on the switch network.

Explanation: **Estart** attempted to distribute the switch topology file to all nodes with css adapters and **host_responds=1** and was not successful on the listed nodes.

Probable causes are insufficient Kerberos authentication and lack of dasd space. These nodes may not have the proper topology file and therefore may not initialize on the switch.

User Response: Determine why the nodes could not receive the switch topology file then enter the command again.

0028-076 The characteristics of the topology file on Node *node* does not appear to match that on CWS.

Explanation: The **Estart** command attempted to distribute the topology to all nodes with adapters and **host_responds=1** and was not successful on the specified nodes. These nodes may not have the proper topology file or the files have different characteristics.

User Response: Determine why the nodes could not receive the topology file. If the file is present, determine why the **ls filename** command returns different results. This may be due to different versions of the **ls** command or National Language Support considerations.

0028-077 **Switch initialization failed. The `fault_service_Worm_RTG_CS` daemon exited due to errors. See `/var/adm/SPlogs/css0/p0/fit` for more information.**

Explanation: Switch initialization was not successful. The `fault_service_Worm_RTG_CS` daemon has encountered errors and has exited.

User Response: Review the `/var/adm/SPlogs/css0/p0/fit` file. See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-078 **Switch initialization second time limit exceeded. The `fault_service_Worm_RTG_CS` daemon is continuing to attempt to initialize the switch. See `/var/adm/SPlogs/css0/p0/fit` for more information.**

Explanation: Restart processing has exceeded the allowable time limit.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide*.

0028-089 **Automatic unfence is not supported on a `code_version` primary node.**

Explanation: The user requested that automatic unfence be enabled or disabled, but the primary node does not support this feature.

User Response: The System Data Repository autounfence attribute is updated and Switch Initialization continues. However, the Fault Service daemon will ignore this attribute. Use the **Eprimary** and **Estart** commands to specify a primary node that supports automatic unfence.

0028-090 **Unable to modify the autounfence attribute of the `Switch_partition` object in the SDR.**

Explanation: The `SDRChangeAttrValues` command was not successful for the `Switch_partition` object.

User Response: Check that the System Data Repository is operating correctly and that the automatic unfence attribute (`autounfence`) is defined. If the message was issued by the **Estart** command, switch initialization continues.

0028-100 **Usage: `—F input_file —f output_file —O [yes | no]`.**

Explanation: The user did not specify all required parameters.

User Response: Specify the input file name and the output file name and enter the command again.

0028-101 **`topology_filename` does NOT exist, specify file name again.**

Explanation: The specified input file does not exist.

User Response: Verify the correct input file and enter the command again.

0028-102 **`filename` is NOT readable, specify file name again.**

Explanation: Specified input file is not readable.

User Response: Specify the input file name again.

0028-103 **Error on retrieving Switch Object from SDR.**

Explanation: The command `SDRGetObjects Switch` was not successful.

User Response: Check to see if the System Data Repository daemon, `/usr/lpp/ssp/bin/sdrd`, is running and if the object class `Switch` is defined.

0028-104 **Error on retrieving Node Object from the SDR.**

Explanation: The command `SRGetObjects Node` was not successful.

User Response: Check to see if the System Data Repository daemon, `/usr/lpp/ssp/bin/sdrd`, is running and if the object class `Node` is defined.

0028-105 **Error on retrieving `topology_input_file` from SDR.**

Explanation: Retrieval of the `topology_input_file` was not successful.

User Response: Check to see if the System Data Repository daemon `/usr/lpp/ssp/bin/sdrd` is running and if the specified topology input file is in the System Data Repository.

0028-106 **Error on saving `topology_output_file` to SDR.**

Explanation: Saving of the `topology_output_file` was not successful.

User Response: Check to see if the System Data Repository daemon `/usr/lpp/ssp/bin/sdrd` is running and check if the user has write permission to the System Data Repository.

0028-107 **Error on writing `topology_output_file`, check write permission.**

Explanation: Writing of the `topology_output_file` was not successful.

User Response: Check to see if the System Data

Repository daemon `/usr/lpp/ssp/bin/sdrd` is running and check if the user has write permission on the specified directory.

0028-108 Error return from Etopology.

Explanation: The **Etopology** command was not successful.

User Response: Check to see if the correct file name was specified.

0028-109 Output file was not saved, specify output file name and run again.

Explanation: The output file name was not specified.

User Response: Specify the output file name.

0028-110 Could not issue a remote command to the primary node due to authentication failure.

Explanation: Kerberos authentication services rejected a remote command to the primary node.

User Response: Check the Kerberos authentication setup.

0028-111 Could not issue a remote command to the primary backup node due to authentication failure.

Explanation: Kerberos authentication services rejected a remote command to the primary backup node.

User Response: Check the Kerberos authentication setup.

0028-112 Usage: *Eannotator* [-h] {-F *input file*|-d} -f *output file* -O {yes|no} [-p {0|all}]

Explanation: You did not specify the required parameters.

User Response: Specify the input file name and the outfile name.

0028-113 Usage: *Eannotator* -d option used only on SP_SWITCH2 or unpartitioned systems.

Explanation: Specifying the `-d` option on a non `SP_SWITCH2` system is not valid.

User Response: Specify the correct input file.

0028-114 Error: Input file not a topology file.

Explanation: The user specified an incorrect `.top` input file.

User Response: Specify the correct input file.

0028-115 Error: Input file incorrect. Input nsbs: *nsb(s) input* System nsbs:*nsbs in system*

Explanation: The user specified an incorrect `.top` input file.

User Response: Specify the correct input file.

0028-131 Specify a number of days from 1 to 40.

Explanation: The number of days specified is not valid.

User Response: Enter the command again using the correct syntax.

0028-132 Specify the number of hours from 1 — 23.

Explanation: The number of hours specified is not valid.

User Response: Enter the command again using the correct syntax.

0028-133 Specify the number of minutes, from 1 — 59.

Explanation: The number of minutes specified is not valid.

User Response: Enter the command again using the correct syntax.

0028-134 Argument *incorrect flag* is not valid.

Explanation: The argument specified is not valid.

User Response: Enter the command again using the correct syntax.

0028-135 Run Phase Duration must not be greater than 40 days.

Explanation: The time specified is too large.

User Response: Shorten the time specified to be less than or equal to 40 days.

0028-136 IP address *node_specifier* was not found in the SDR.

Explanation: Unable to find the IP address in the **Adapter** class of the System Data Repository.

User Response: Correct the problem with the System Data Repository.

0028-137 **Unable to find the Node class for Node number *node_number* in the SDR.**

Explanation: Unable to find information for this node.

User Response: Correct the problem with the System Data Repository.

0028-138 **Unable to find the Node class for frame *frame_number* and slot *slot_number*.**

Explanation: Unable to find information for this frame and slot number.

User Response: Correct the problem with the System Data Repository.

0028-139 **Incorrectly formed node specifier or incorrect option: *node_specifier*.**

Explanation: The *node_specifier* did not match one of the accepted forms.

User Response: Correct the problem with the System Data Repository.

0028-141 **No nodes specified. Type Eunfence -h for usage.**

Explanation: No nodes specified for this command.

User Response: Issue the command again. Make sure to specify nodes.

0028-142 **Topology file specified not valid for current partition.**

Explanation: Topology file does not match current partition.

User Response: Check to see which partition the user is running in and compare to the contents of the topology file.

0028-143 **Unable to retrieve the partition code level from the SDR.**

Explanation: Attempted to read *code_level* from **Syspar** class in the System Data Repository. The read was not successful.

User Response: Check to see if the System Data Repository daemon is running and that the **Syspar** class has not been corrupted.

0028-145 **Unable to retrieve information on Fenced nodes from the SDR.**

Explanation: Attempted to list the **switch_responds** class in the System Data Repository and received an error.

User Response: Check to see that the System Data

Repository daemon is running and the repository has not been corrupted.

0028-146 **IP address *node_specifier* designates the Primary Node. The Primary node cannot be fenced or unfenced.**

Explanation: The IP address given belongs to the primary, which cannot be fenced or unfenced, because the primary is the node that does the fencing and unfencing.

User Response: Do not specify the primary node.

0028-147 **Node number *node_number* designates the Primary Node. The Primary node cannot be fenced or unfenced.**

Explanation: The node number given belongs to the primary, which cannot be fenced or unfenced, because the primary is the node that does the fencing and unfencing.

User Response: Do not specify the primary node.

0028-148 **Frame, Slot *frame_number,slot_number* designates the Primary Node. The Primary node cannot be fenced or unfenced.**

Explanation: The frame number and slot number given belongs to the primary, which cannot be fenced or unfenced, because the primary is the node that does the fencing and unfencing.

User Response: Do not specify the primary node.

0028-149 **Node name *host_name* designates the Primary Node. The Primary node cannot be fenced or unfenced.**

Explanation: The node name given belongs to the primary, which cannot be fenced or unfenced, because the primary is the node that does the fencing and unfencing.

User Response: Do not specify the primary node.

0028-150 **IP address *IP_address* for Node *host_name* not found in SDR.**

Explanation: Unable to find the IP address, which is derived from the host name using the **host** command, in the **Adapter** class.

User Response: Specify a correct hostname or fix the IP address.

0028-151 Unable to retrieve oncoming_primary_backup_name from Switch_partition object in SDR.

Explanation: Attempted to read the *oncoming_primary_backup_name* from the **Switch_partition** class in the System Data Repository, but the attempt was not successful.

User Response: Check to see if the System Data Repository is operating correctly.

0028-152 Unable to retrieve the oncoming primary backup node_number from Node object in SDR.

Explanation: Attempted to read the *oncoming_primary_backup_name* from the **Switch_partition** class in the System Data Repository, but the attempt did not succeed.

User Response: Check to see if the System Data Repository is operating correctly.

0028-155 Unable to retrieve System Partition data from the SDR.

Explanation: The attempt to read the **Syspar_map** class in the System Data Repository to retrieve the System Partition address was not successful.

User Response: This is either an incorrect node number or the System Data Repository is in an inconsistent or unusable state. Specify a correct node number or investigate the problem.

0028-156 Unable to retrieve the reliable hostname for node number node_number from the SDR.

Explanation: The attempt to retrieve the reliable hostname for the indicated node number was not successful.

User Response: Specify a correct node number or investigate the problem with the System Data Repository.

0028-157 Remote execution of the request to Primary_name failed.

Explanation: A remote command to the primary node was not successful.

User Response: Check the authentication and connectivity to the primary node.

0028-158 No nodes to unfence.

Explanation: After validating arguments, could not find nodes to unfence.

User Response: Specify valid nodes.

0028-159 Unable to find the System Partition containing the node specified by Entered_node_specification.

Explanation: The specified node was not found in the **Syspar_map** class.

User Response: Specify a valid node.

0028-160 Unable to find the reliable hostname for the node specified by Entered_node_specification.

Explanation: Unable to retrieve the *reliable_hostname* for the node specified.

User Response: Specify a valid node.

0028-161 Unable to find the switch responds entry for the node specified by Entered_node_specification.

Explanation: Unable to find the switch responds entry for the node specified.

User Response: Specify a valid node.

0028-162 Node specified by entered_node_specification is not currently fenced.

Explanation: The specified node is not fenced.

User Response: Specify a fenced node.

0028-163 Node specified by entered_node_specification is not on the switch.

Explanation: The specified node is not on the switch.

User Response: Specify a node that is on the switch.

0028-166 Node number node_number designates the Primary backup node. The Primary backup node cannot be fenced or unfenced.

Explanation: The indicated node number belongs to the primary backup node, which cannot be fenced or unfenced.

User Response: Do not specify the primary backup node.

0028-167 The autojoin flag is not supported when autounfence is enabled.

Explanation: The **Efence** command does not support the autojoin flag on systems where the automatic unfence feature is enabled.

User Response: Reissue the **Efence** command without specifying the autojoin flag.

0028-170 Unable to retrieve the partition name from the Syspar object in the SDR.

Explanation: The attempt to read the `syspar_name` from the `Syspar` class in the System Data Repository was not successful.

User Response: Check to see that the System Data Repository daemon is running and that the `Syspar` class has not been corrupted.

0028-171 Cannot ping bootserver
bootserver_node_name trying cws.

Explanation: The attempt to ping the bootserver before using it to distribute the topology file was not successful.

User Response: Use the control workstation.

0028-172 Distribution of topology to bootservers failed rc=*pcp_return_code*. See the log file on the primary node for details.

Explanation: The attempt to distribute the topology file to the bootserver through `pcp` was not successful.

User Response: Check the return code and the status of the bootserver node. Check the log file for any error messages generated from the `pcp` command.

0028-173 Bad return code from distribution of topologies, not all nodes may have the topology file rc=*pexscr_return_code*.

Explanation: The attempt to distribute the topology file to the secondary through `pexscr` was not successful for some or all of the nodes.

User Response: Check the return code and the status of the secondary nodes. `Estart` continues with nodes that did not experience this error.

0028-174 Unable to distribute topology file to the following nodes. They will not be unfenced: *list_of_nodes*.

Explanation: The attempt to distribute the topology file to the nodes was not successful. These nodes may not have the proper file and should not be unfenced.

User Response: Check to see if the nodes are available on the Ethernet and make sure they have enough space or proper permissions for the topology file.

0028-175 Cannot determine topology file to distribute from topology.data. /var/adm/SPIlogs/css/topology.data file not found.

Explanation: The attempt to distribute the topology file to the nodes was not successful because the

`topology.data` file could not be found in the `/var/adm/SPIlogs/css` directory. This file is created by the `Estart` command.

User Response: Check whether the `/var` file system on the primary node is full. If not, try issuing the `Estart` command, then retry the original command.

0028-176 Unable to distribute topology file to any nodes. Check host_responds for the nodes.

Explanation: The attempt to distribute the topology file to the nodes was not successful because the nodes either had `host_responds` down or none of the nodes has a `css` adapter.

User Response: Check whether `host_responds` is working on the system.

0028-177 Received errors in distribution of topology file to /tmp on at least one bootserver. See /var/adm/SPIlogs/css/dist_topology.log on primary node for details.

Explanation: The attempt to distribute the topology file to the bootservers was not successful. The file `/var/adm/SPIlogs/css/dist_topology.log` has the system error messages. Probable reasons are Kerberos authentication on the node was not successful or the node has a DASD space problem.

User Response: Check the log and correct the error. Retry the command.

0028-178 Received errors in distribution of topology file from bootserver to at least one node. See /var/adm/SPIlogs/css/dist_topology.log on primary node for details.

Explanation: The attempt to distribute the topology file to the node from a bootserver was not successful. The file `/var/adm/SPIlogs/css/dist_topology.log` has the system error messages.

Probable reasons are Kerberos authentication on the node was not successful or the node has a DASD space problem.

User Response: Check the log and correct the error. Retry the command.

0028-179 Unable to distribute topology file to the following nodes. auto-unfence will continue.

Explanation: Attempt to distribute the topology file to the node during auto-unfence failed. However, auto-unfence will continue because there is a chance that the topology file is already on the node, due to a previous `Estart`.

User Response: Check the file `/var/adm/SPlogs/css/dist_topology.log` for errors.

0028-180 Eunpartition failed — insufficient memory.

Explanation: An internal error was detected.

User Response: Record the above information and contact the IBM Support Center.

0028-181 Eunpartition failed — daemon busy. Retry command.

Explanation: The fault service daemon is processing a request.

User Response: Retry the command.

0028-183 No css0 adapter found on this node.

Explanation: A `css0` adapter was not found in the ODM on this node.

User Response: Verify that the node has a `css0` adapter installed.

0028-184 Note: number of bad switch links switch to switch link(s) did not initialize. Switch performance may be affected.

Explanation: Some number of switch to switch links did not initialize during `Estart` command processing. This can affect switch performance. Possible causes are unseated, missing or faulty switch-to-switch cables or other switch hardware problems.

User Response: Review the `out.top` file for more details.

0028-185 Switch initialization failed on *hostname* — Estart already in progress.

Explanation: Fault service daemon is busy processing an `Estart` request.

User Response: Wait for `Estart` to complete.

0028-186 Unable to modify switch_responds object in SDR for node *reliable hostname*.

Explanation: `SDRChangeAttrValues` did not succeed for `switch_responds` object.

User Response: Check that the System Data Repository is operating correctly.

0028-187 Fault service processes *fault service daemon process ids* will not die.

Explanation: Fault service daemon programs did not respond to kill commands.

User Response:

0028-188 Incorrect adapter type.

Explanation: An unsupported adapter type was found in the ODM on the node.

User Response:

0028-189 Failed to obtain DCE credentials — *rc* = *return code*. Continuing.

Explanation: The `dsrvtgt` command returned a non-zero return code.

User Response: Make sure that DCE is configured and is operating correctly.

0028-190 Adapter Configuration failed.

Explanation: The adapter configuration status found in the ODM indicates a configuration problem.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-191 No adapter_status attribute in CuAT object class. Attribute assumed to be default value "not_configured".

Explanation: There was no adapter configuration status found in the ODM.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-192 rc.switch failed — *date*.

Explanation: The problem of adapter configuration means that the `rc.switch` is unable to complete successfully.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-193 Unable to update Adapter Configuration in SDR. SDR returned *return code*.

Explanation: The `SDRChangeAttrValues` command returned a non-zero return code.

User Response: Check that the System Data Repository is operating correctly.

0028-194 ODM adapter_status =
adapter_config_status from ODM.

Explanation: The adapter configuration status in the ODM is css_ready.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-195 No netmask or netaddr attribute in
CuAt object class.

Explanation: The necessary configuration information could not be found in the ODM.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-196 Node not customized correctly.

Explanation: The node has not been customized correctly.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-197 No switch_node_num, switch_number,
switch_chip, or switch_chip_port
attribute in CuAt object class.

Explanation: The necessary configuration information could not be found in the ODM.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-198 /usr/lpp/ssp/ifconfig failed.

Explanation: The ifconfig command returned a non-zero return code.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-199 /usr/lpp/ssp/css/ifconfig down failed.

Explanation: The ifconfig down command returned a non-zero return code.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-200 rc.switch entry not in the /etc/inittab
file.

Explanation: The /etc/inittab entry for rc.switch is missing.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-201 Timed out waiting for switch interface
to come up.

Explanation: The time-out value was exceeded while waiting for the switch interface to be available.

User Response: See the chapter on diagnosing switch problems in the *PSSP: Diagnosis Guide*.

0028-203 fault service daemon not running on
primary node.

Explanation: The fault service daemon not running on primary node.

User Response: See the chapter on diagnosing switch problems in *PSSP: Diagnosis Guide* for information on verifying primary nodes.

0028-204 Command not valid on SP Switch
system.

Explanation: This command is used to manage an SP Switch2 system and is only valid on a system with an SP Switch2 installed.

User Response: Use a command which is valid on an SP Switch system.

0028-205 Unable to update CSS Adapter type in
SDR. SDR returned *return code*.

Explanation: The SDRChangeAttrValues command returned a non-zero return code.

User Response: Check that the System Data Repository is operating correctly.

0028-206 Warning: Cannot ping the oncoming
primary node: *oncoming primary node*.

Explanation: The node which is to be the oncoming primary node could not be pinged.

User Response: Either ensure that the oncoming primary node is working correctly or select a new oncoming backup node using the **Eprimary** command.

0028-207 **Cannot ping the oncoming primary backup node:** *oncoming primary backup node*.

Explanation: The node which is to be the oncoming primary backup node could not be pinged.

User Response: Either ensure that the oncoming primary backup node is operating correctly or select a new oncoming primary backup node using the **Eprimary** command.

0028-250 **Command not valid on SP Switch2 system.**

Explanation: This command is used to manage an SP switch and is only valid on a system with an SP switch installed.

User Response: Use a command which is valid on an SP Switch2 system.

0028-251 **Unable to modify Switch_plane object in SDR.**

Explanation: SDRChangeAttrValues was not successful for Switch_plane object.

User Response: Check that the System Data Repository is working correctly.

0028-252 **Unable to query Switch_plane object in SDR.**

Explanation: SDRGetObjects was not successful for Switch_plane object.

User Response: Check that the System Data Repository is working correctly.

0028-253 **The —p flag is not valid on an SP Switch system.**

Explanation: The —p flag can only be used on an SP Switch2 system.

User Response: Enter the command again using the correct syntax.

0028-254 **A primary or backup value in the Switch_plane is null or invalid.**

Explanation: One of the primary or backup values for the switch primary node is not valid or may be null.

User Response: Set the value using the **Eprimary** command.

0028-255 **Unable to create Switch_plane object.**

Explanation: SDRCreateObjects did not succeed for Switch_plane object.

User Response: Check that the System Data Repository is operating correctly.

0028-256 **The —m flag is not valid on an SP Switch2 system.**

Explanation: The —m flag can only be used on an SP Switch2 system.

User Response: Enter the command again using the correct syntax.

0028-257 **Unable to retrieve oncoming_primary_backup_name from Switch_plane object in SDR.**

Explanation: The attempt to read the oncoming_primary_backup_name from the Switch_plane Class in the System Data Repository was not successful.

User Response: Ensure that the System Data Repository is operating correctly.

0028-258 **Cannot ping node *node name*.**

Explanation: An attempt to ping the node *node name* was not successful.

User Response: Ensure that the node is up and operating correctly.

0028-259 **Cannot issue a remote command to node *node name*.**

Explanation: An attempt to issue a remote command to the node *node name* was unsuccessful.

User Response: Ensure that the node is up and operating correctly for your security environment.

0028-260 **The backup node *primary backup node* cannot be pinged, so you may not fence the primary node *primary node*.**

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the Eprimary command and run Estart. Then, fence the old primary node.

0028-261 **A primary or backup value in the Switch_plane is null or invalid.**

Explanation: One of the primary or backup values for the switch primary node is not valid or is set to null.

User Response: Set the value using the **Eprimary** command.

0028-262 **The fault-service daemon is not up on the backup node** *primary backup node*, **so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the Eprimary command and run Estart. Then, fence the old primary node.

0028-263 **The backup node** *primary backup node*, **is isolated, so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the Eprimary command and run Estart. Then, fence the old primary node.

0028-264 **There is no backup node, so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the Eprimary command and run Estart. Then, fence the old primary node.

0028-265 **There are no other nodes which are not isolated, so you may not fence the primary node** *primary node* **and the backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Make another node available using Eunfence.

0028-266 **Cannot ping the only other node which is not isolated, last good node so you may not fence the primary node** *primary node* **and the primary backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Make another node available using Eunfence.

0028-267 **The fault-service daemon is not running on the only other node which is not isolated** *last good node* **so you may not fence the primary node** *primary node* **and the primary backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Ensure that the fault service daemon is running on some other node.

0028-280 **Cannot ping the oncoming primary node:** *oncoming primary node*.

Explanation: An attempt to ping the primary node was unsuccessful.

User Response: Pick a new primary node using Eprimary, then issue Estart.

0028-281 **Cannot ping the oncoming primary backup node:** *oncoming primary backup node*.

Explanation: An attempt to ping the primary backup node was unsuccessful.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-282 **Fault service worm not up on oncoming primary node:** *oncoming primary node*.

Explanation: None.

User Response: Pick a new oncoming primary node using Eprimary.

0028-283 **Fault service worm not up on oncoming primary backup node:** *oncoming primary backup node*.

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-284 **Oncoming primary node is fenced:** *oncoming primary node*.

Explanation: None.

User Response: Pick a new oncoming primary node using Eprimary.

0028-285 **Oncoming primary backup node is fenced:** *oncoming primary backup node.*

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-286 **Neither the oncoming primary nor the oncoming primary backup node is available, cannot Estart.**

Explanation: At least one of the oncoming primary and oncoming primary backup nodes is needed to Estart.

User Response: Select a new oncoming primary node and a new oncoming primary backup node using Eprimary.

0028-287 **The Eprimary command returned an error, cannot Estart.**

Explanation: Estart attempted to pick a new primary node using Eprimary.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-288 **plane *plane number: program name:* unable to query Switch_plane object in SDR.**

Explanation: SDRChangeAttrValues was not successful for Switch_plane object.

User Response: Make sure that the System Data Repository is operating correctly.

0028-289 **plane *plane number: program name:* unable to modify Switch_plane object in SDR.**

Explanation: SDRGetObjects was not successful for Switch_plane object.

User Response: Make sure that the System Data Repository is operating correctly.

0028-290 **plane *plane number: program name:* unable to create Switch_plane object.**

Explanation: SDRCreateObjects was not successful for Switch_plane object.

User Response: Make sure that the System Data Repository is operating correctly.

0028-291 **plane *plane number: program name:* A primary or backup value in the Switch_plane is null or invalid.**

Explanation: One of the primary or backup values for the switch primary node is null or not valid (probably null).

User Response: Set the value using the Eprimary command.

0028-292 **plane *plane number: program name:* Primary node not defined — use Eprimary.**

Explanation: A primary node must be assigned before running Estart.

User Response: See the man page for this command for information on how to assign a primary node.

0028-293 **plane *plane number: program name:* Warning: Cannot ping the oncoming primary node: *oncoming primary node.***

Explanation: The node which is to be the oncoming primary node could not be pinged.

User Response: Either ensure that the oncoming primary node is functioning correctly or select a new oncoming backup node using the Eprimary command.

0028-294 **plane *plane number: program name:* Warning: Cannot ping the oncoming primary backup node: *oncoming primary backup node.***

Explanation: The node which is to be the oncoming primary backup node could not be pinged.

User Response: Either ensure that the oncoming primary backup node is functioning correctly or select a new oncoming primary backup node using the Eprimary command.

0028-295 **plane *plane number: program name:* Fault service worm not up on oncoming primary node, cannot Estart: *node name.***

Explanation: The worm daemon on the oncoming primary node is not up. This message may also appear if Estart is unable to issue a remote command to the oncoming primary node.

User Response: Rerun rc.switch on the oncoming primary node or choose another node using Eprimary. If the problem is due to a remote command failure, check the Kerberos authentication setup.

0028-296 *plane plane number: program name:*
**Fault service worm not up on
oncoming primary backup node,
cannot Estart: node name.**

Explanation: The worm daemon on the oncoming primary backup node is not up. This message may also appear if **Estart** is unable to issue a remote command to the oncoming primary backup node.

User Response: Rerun **rc.switch** on the oncoming primary backup node or choose another node using **Eprimary**. If the problem is due to a remote command failure, check the Kerberos authentication setup.

0028-297 *plane plane number: program name:*
**Oncoming primary node is fenced,
cannot Estart: node name.**

Explanation: The oncoming primary node to be used by **Estart** is fenced.

User Response: Check the node and possibly, select an alternate oncoming primary node using the **Eprimary** command.

0028-298 *plane plane number: program name:*
**Note: oncoming primary backup node
is fenced: node name.**

Explanation: The node is fenced off.

User Response: There is no problem as long as the node is unfenced before issuing **Estart**.

0028-299 *plane plane number: program name:*
**Neither the oncoming primary nor
oncoming primary backup node is
available, cannot Estart.**

Explanation: At least one of the oncoming primary and oncoming primary backup nodes is needed to **Estart**.

User Response: Select a new oncoming primary node and a new oncoming primary backup node using **Eprimary**.

0028-300 *plane plane number: program name:* **The
Eprimary command returned an error,
cannot Estart.**

Explanation: **Estart** attempted to pick a new primary node using **Eprimary**.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-301 *plane plane number: program name:* **The
autojoin flag is not supported when
autounfence is enabled.**

Explanation: The **Efence** command does not support the autojoin flag when the automatic unfence feature is enabled.

User Response: Reissue the **Efence** command without specifying the autojoin flag.

0028-305 **Adapter configuration failed for
adapter adapter name.**

Explanation: The adapter configuration status found in the ODM indicates a configuration error.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-306 **Unable to update Adapter
Configuration for adapter name in SDR.
SDR returned error code.**

Explanation: The **SDRChangeAttrValues** command returned a non-zero return code.

User Response: Check that the System Data Repository is operating correctly.

0028-307 **Unable to update CSS Adapter type for
adapter name in SDR. SDR returned
return code.**

Explanation: The **SDRChangeAttrValues** command returned a non-zero return code.

User Response: Check that the SDR is operating correctly.

0028-308 **No netmask or netaddr attribute in
CuAt object class for adapter name.**

Explanation: The necessary configuration information could not be found in the ODM.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-309 **/usr/lpp/ssp/css/ifconfig failed for
adapter name.**

Explanation: The **ifconfig** command returned a non-zero return code.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-310 /usr/lpp/ssp/css/ifconfig down failed for adapter name.

Explanation: The ifconfig down command returned a non-zero return code.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

0028-320 plane plane number: program name
Unable to retrieve the topology file out of SDR.

Explanation: Unable to retrieve the topology file out of the System Data Repository.

User Response: Check that the System Data Repository is operating correctly.

0028-321 plane plane number: program name
Unable to retrieve oncoming_primary_backup_name from Switch_plane object in SDR.

Explanation: Attempted to read the oncoming_primary_backup_name from the Switch_partition Class in the System Data Repository. The attempt was not successful.

User Response: Check that System Data Repository is operating correctly.

0028-322 plane plane number: program name
Unable to retrieve the oncoming primary backup node_number from Node object in SDR.

Explanation: Attempted to read the oncoming primary backup node_number from the Node Class in the System Data Repository. The attempt was not successful.

User Response: Check that System Data Repository is operating correctly.

0028-323 plane plane number: program name
Switch initialization failed on hostname - i_stub call error.

Explanation: Internal error.

User Response: Contact the IBM Support Center.

0028-324 plane plane number: program name
Switch initialization failed on hostname - insufficient memory.

Explanation: Internal error.

User Response: Contact the IBM Support Center.

0028-325 plane plane number: program name
Switch initialization failed on hostname - Estart already in progress.

Explanation: Fault service daemon is busy processing an Estart request.

User Response: Wait for the Estart request to complete.

0028-326 plane plane number: program name
Switch initialization failed on hostname - daemon busy. Retry command.

Explanation: Fault service daemon is busy processing a request.

User Response: Retry the command.

0028-327 plane plane number: program name
Switch initialization failed on hostname - i_stub problem.

Explanation: Internal error.

User Response: Contact the IBM Support Center.

0028-328 plane plane number: program name
Switch initialization failed. The fault_service_Worm_RTG_CS daemon exited on hostname due to errors. See the flt file on the switch primary in the appropriate sub-directory of /var/adm/SPlogs for more information.

Explanation: Switch initialization was not successful. failed. The fault_service_Worm_RTG_SP daemon has encountered errors and has exited.

User Response: Review /var/adm/SPlogs/css/flt file. Then, consult the *PSSP: Diagnosis Guide*.

0028-329 plane plane number: program name
Switch initialization hostname second time limit exceeded. The fault_service_Worm_RTG_CS daemon is continuing to attempt to initialize the switch. See the flt file on the switch primary in the appropriate sub-directory of /var/adm/SPlogs for more information.

Explanation: Estart processing has exceeded allowable time limit.

User Response: Consult the *PSSP: Diagnosis Guide*.

0028-330 *plane plane number: program name*
Unable to find suitable primary backup node. No primary backup node running.

Explanation: The oncoming primary backup node in the System Data Repository was not available. Either the Ethernet is down, the daemon is not running, or the primary backup node is fenced. The switch attempted to choose another node, but was not able to find an available node. The switch is running on the primary node.

User Response: **Estart** continues. Make sure you intend to run only on the one node. If the reason a primary backup node could not be assigned is because the nodes are fenced, run the **Eunfence** command to unfence one or more nodes, and run the **Estart** command again.

0028-331 *plane plane number: program name*
Note: number of bad links switch to switch links did not initialize. Switch performance may be affected.

Explanation: Some number of switch to switch links did not initialize during **Estart**. This can affect switch performance. Possible causes are un-setted, missing or faulty switch-to-switch cable or other switch hardware problem.

User Response: Review the **out.top** file for more details.

0028-332 *plane plane number: program name*
Unable to store topology file in SDR.

Explanation: SDRCreateFile was not successful storing the topology file.

User Response: Check that the System Data Repository is operating correctly.

0028-333 *plane plane number: program name*
Error return from Etopology

Explanation: Unsuccessful running Etopology.

User Response: Check to see that you specified the correct file name.

0028-334 *plane plane number: program name*
Primary node not defined - use "Eprimary"..

Explanation: A primary node must be assigned before running the **Estart** command.

User Response: See the **Eprimary** command man page for information on how to assign a primary node.

0028-335 *plane plane number: program name*
Can not ping the primary node: primary node.

Explanation: The primary node cannot be pinged.

User Response: See the *PSSP: Diagnosis Guide* for more information.

0028-336 *plane plane number: program name*
No functional switch primary node, run Estart.

Explanation: There is no node running as the primary. This is the initial state of the system or will happen when rc.switch is run on the current primary node. It can also happen in a brief window when primary node takeover is occurring.

User Response: Check **Eprimary** for more information and run the **Estart** command, if necessary.

0028-337 *plane plane number: program name*
Node number node number designates the Primary Node. The Primary node cannot be fenced without the -f flag.

Explanation: Node number given belongs to the Primary node, which cannot be fenced without using the **-f** flag.

User Response: Do not specify the Primary node unless you also specify the **-f** flag.

0028-338 *plane plane number: program name*
Unable to find the switch responds entry for the node specified by node number.

Explanation: Unable to find the switch responds entry for the node specified.

User Response: Specify a valid node again.

0028-339 *plane plane number: program name*
Node specified by node number is not on the switch.

Explanation: Specified node is not on the switch.

User Response: Specify a node that is on the switch.

0028-340 *plane plane number: program name*
Node number node number designates the Primary Backup Node. The Primary Backup node cannot be fenced without the -f flag.

Explanation: Node number given belongs to the Primary Backup node, which cannot be fenced without the **-f** flag.

User Response: Do not specify the Primary backup

node without specifying the **-f** flag.

0028-341 **plane** *plane number: program name* **The backup node** *primary backup node* **cannot be pinged, so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the `Eprimary` command and issue `Estart`. Then, fence the old primary node.

0028-342 **plane** *plane number: program name* **A primary or backup value in the Switch_plane is null or invalid.**

Explanation: One of the primary or backup values for the switch primary node is invalid (probably null).

User Response: Set the value using the `Eprimary` command.

0028-343 **plane** *plane number: program name* **The fault-service daemon is not up on the backup node** *primary backup node*, **so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the `Eprimary` command and issue `Estart`. Then, fence the old primary node.

0028-344 **plane** *plane number: program name* **The backup node** *primary backup node* **is isolated, so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the `Eprimary` command and issue `Estart`. Then, fence the old primary node.

0028-345 **plane** *plane number: program name* **There is no backup node, so you may not fence the primary node** *primary node*.

Explanation: The primary node may be fenced only if the backup node is available.

User Response: To fence the primary node, select a new primary node with the `Eprimary` command and issue `Estart`. Then, fence the old primary node.

0028-346 **plane** *plane number: program name* **There are no other nodes which are not isolated, so you may not fence the primary node** *primary node* **and the backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Make another node available using `Eunfence`.

0028-347 **plane** *plane number: program name* **Cannot ping the only other node which is not isolated, last valid node, so you may not fence the primary node** *primary node* **and the backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Make another node available using `Eunfence`.

0028-348 **plane** *plane number: program name* **The fault-service daemon is not running on the only other node which is not isolated, last good node, so you may not fence the primary node** *primary node*, **and the backup node** *primary backup node*.

Explanation: In order to fence the primary node and the backup node, you must have at least one other node available.

User Response: Ensure that the fault service daemon is running on some other node.

0028-349 **plane** *plane number: program name* **No nodes to unfence.**

Explanation: After validating arguments, no nodes were found to unfence.

User Response: Specify valid nodes.

0028-350 **plane** *plane number: program name* **Node specified by** *node specified* **is not currently fenced.**

Explanation: Specified node is not fenced.

User Response: Specify a fenced node.

0028-351 *plane plane number: program name*
Oncoming primary node is fenced
primary node name.

Explanation: None.

User Response: Pick a new oncoming primary node using Eprimary.

0028-352 Command not supported on nodes in restricted root rcmd mode.

Explanation: This command is not supported from an SP system node when your system is running in restricted root remote command mode.

User Response: Reissue the command from the control workstation.

0028-354 startsrc failed for daemon mld.

Explanation: The **startsrc** command returned a non-zero return code.

User Response: Analyze the return code to determine the cause of the failure.

0028-355 /usr/lpp/ssp/css/ifconfig failed for ml0.

Explanation: The **ifconfig** command returned a non-zero return code.

User Response: Analyze the return code to determine the cause of the failure.

0028-356 Definition failed for device driver ml.

Explanation: The **mkdev** command returned a non-zero return code.

User Response: Analyze the return code to determine the cause of the failure.

0028-357 *plane plane number: program name*
Warning: Cannot ping the oncoming primary node: *primary node name.*

Explanation: An attempt to ping the primary node was unsuccessful.

User Response: Pick a new primary node using Eprimary, then issue Estart.

0028-358 *plane plane number: program name*
Fault service worm not up on oncoming primary node: *primary node name.*

Explanation: None.

User Response: Pick a new oncoming primary node using Eprimary.

0028-359 *plane plane number: program name*
Warning: Cannot ping the oncoming primary backup node: *primary node name.*

Explanation: An attempt to ping the primary backup node was unsuccessful.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-360 *plane plane number: program name*
Warning: Fault service worm not up on oncoming primary backup node: *primary node name.*

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-361 *Node number node name designates the Primary Node. The Primary node cannot be unfenced.*

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-362 *Node number node name designates the Primary Backup Node. The Primary Backup node cannot be unfenced.*

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-363 *plane plane number: program name*
Node number node name designates the Primary Node. The Primary node cannot be unfenced.

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-364 *plane plane number: program name*
Node number node name designates the Primary Backup Node. The Primary Backup node cannot be unfenced.

Explanation: None.

User Response: Pick a new oncoming primary backup node using Eprimary.

0028-365 Selected Node(s): *node_list* not part of the Switch fabric.

Explanation: The nodes selected cannot be used because they are not configured for the switch fabric. Neither the Primary node nor the Backup node values are changed in the SDR.

User Response: Reissue the **Eprimary** command using nodes that are part of the Switch fabric.

0028-501 add_attr() error. rc=*return code*.

Explanation: The attribute does not exist or it is an incorrect attribute name.

User Response: Use **Isattr -D -I *device_name*** to verify predefined attributes.

0028-502 error during odm_initialize.

Explanation: The call to odm_initialize() to start the Object Data Manager(ODM) was not successful. The odmerrno variable has been set to indicate the error.

User Response: Use the odmerrno value to determine the reason for error.

0028-503 error during odm_lock

Explanation: The call to odm_lock() to start to look at ODM data, was unsuccessful.

User Response: Another program may have locked ODM data. Try again later.

0028-504 error during odm_open_class(CuDv_CLASS)"

Explanation: ODM Customized Devices (CuDv) object class was not successful in opening.

User Response: Use **odmget CuDv** to query the ODM. Retry the operation and report to the IBM Support Center if the problem persists.

0028-505 No CuDv with this logical device *logical device name*.

Explanation: There is no customized device data for the given logical device.

User Response: Use **odmget -q name=*the_logical_device* CuDv** to query ODM. Also, check that you have supplied the correct device name.

0028-506 error during odm_get_first.

Explanation: The call, odm_get_first() to get CuDv data, was not successful.

User Response: Use **odmget -q name=*the_logical_device* CuDv** to query the ODM. Also, check that you have supplied the correct device

name. Retry the operation and report to the IBM Support Center if the problem persists.

0028-507 Error reading CuAt with *return code*.

Explanation: The call, odm_get_list() to open Customized Device Attribute (CuAt, was not successful. The attribute does not exist or the attribute name was not valid.

User Response: Use **Isattr -D -I *device_name*** to verify predefined attributes

0028-508 No PdDv for this device

Explanation: The attribute does not exist or the attribute name is not valid.

User Response: Use **Isattr -D -I *device_name*** to verify predefined attributes

0028-509 Failed in updating device driver.

Explanation: This program was not successful in updating the attribute in device driver.

User Response: Check to see if the device driver is configured. If it is configured, retry the operation and contact the IBM Support Center if the problem persists.

0028-510 Failed in updating ODM attributes

Explanation: This program was not successful in updating the ODM.

User Response: Retry the operation and contact the IBM Support Center if the problem persists.

0028-511 odm_close_class() error

Explanation: This program was not successful in closing ODM classes.

User Response: Retry the operation and contact the IBM Support Center if the problem persists.

0028-512 Error Opening CuAt

Explanation: Opening Customized Attribute class was not successful.

User Response: Use **Isattr -D -I *device_name*** to verify predefined attributes.

0028-513 Error Opening PdAt where *return code*.

Explanation: Opening Predefined Attribute data in ODM was not successful.

User Response: Use **Isattr -D -I *device_name*** to verify predefined attributes.

0028-514 **No records in PdAt where search string containing device type and attribute.**

Explanation: The attribute does not exist or the attribute name is not valid.

User Response: Use **Isattr -D -I device_name** to verify predefined attributes.

0028-515 **Error reading CuAt where search string containing logical name and attribute name.**

Explanation: The attribute does not exist or the attribute name is not valid.

User Response: Use **Isattr -D -I device_name** to verify predefined attributes.

0028-516 **Failure closing CuAt object class**

Explanation: This program was not successful closing the ODM CuAt object class.

User Response: Retry the operation and contact the IBM Support Center if the problem persists.

0028-517 **Failure closing PdAt object class**

Explanation: This program was not successful closing the ODM PdAt object class.

User Response: Retry the operation and contact the IBM Support Center if the problem persists.

0028-518 **Invalid value for attribute *attribute name* is *attribute value*.**

Explanation: The attribute value mismatch the attribute type.

User Response: Use **Isattr -D -I device_name** to verify predefined attributes and their values.

0028-519 **The value must be represented by a total number of bytes.**

Explanation: This program expects a numeric parameter for the given attribute.

User Response: Retry using a numeric parameter.

0028-520 **The pool size must be a multiple of 2 MB.**

Explanation: The IP send pool and receive pool size must be a multiple of 2 Mega bytes.

User Response: Retry and enter a pool size of a multiple of 2 MB.

0028-521 **null attribute or value**

Explanation: The attribute value is missing.

User Response: Check the command usage.

0028-522 **IP is not configured. However, the pool size has been registered in the device driver.**

Explanation: The SP Switch IP protocol has not been configured. The given pool size is not updated in the IP protocol.

User Response: None.

0028-523 ***win_minsize* cannot be greater than *win_maxsize*.**

Explanation: The *win_minsize* value cannot be greater than the *win_maxsize* value.

User Response: Either enlarge the *win_maxsize* value or decrease the *win_minsize* value.

0028-527 **The given *attribute name* (*spool* or *rpool size*), *value* should not be greater than 32 MB.**

Explanation: Neither send pool size or receive pool size can be greater than 32 mega bytes.

User Response: Enter the command again with a pool size not greater than 32 MB.

0028-528 **Failed to get current *attribute name* attribute from ODM.**

Explanation: The attribute does not exist or the attribute name is not valid.

User Response: Use **Isattr -E -I device_name** to verify predefined attributes.

0028-529 **The provided component ID *component ID* has reserved windows.**

Explanation: The component ID has had reserved windows in the driver.

User Response: Use **Isattr -E -I device_name** to verify if it has reserved window or not. If the caller wants to reserve more windows, it should first RELEASE windows then RESERVE windows again.

0028-530 **The provided component ID *component ID* has not reserved windows.**

Explanation: The component ID has not reserved windows in the driver. The component was not successful in RELEASE windows.

User Response: Use **Isattr -E -I device_name** to verify if it has a reserved window.

0028-531 **Some windows of the provided component ID *component ID* have not been unloaded.**

Explanation: In order to release reserved window, the window must be unloaded.

User Response: Make sure that the application which uses the window has been terminated.

0028-532 **Only one attribute is allowed in one chgcss command if window attribute is specified.**

Explanation: The **chgcss** command can change one window attribute per time.

User Response: Issue more than one **chgcss** commands to change window attributes.

0028-533 **Either component ID, or type, or count is missing in RESERVE window request.**

Explanation: In order to reserve windows, the caller must provide the component ID, type, and count.

User Response: Check the syntax and call **chgcss** again

0028-534 **Component ID is missing in RELEASE window request.**

Explanation: In order to release windows, the caller must provide the component ID.

User Response: Check the syntax and call **chgcss** again

0028-535 **Wrong cmd value *wrong command value* in window request.**

Explanation: The correct cmd value is RESERVE, RELEASE, or QUERY.

User Response: Check the syntax and call **chgcss** again

0028-536 **Wrong type value in RESERVE window request.**

Explanation: The correct cmd value is *user_client* or *kernel_client*.

User Response: Check the syntax and call **chgcss** again

0028-537 **The component ID *component ID* is too long. It should not have more than 8 characters.**

User Response: Check the syntax and call **chgcss** again

0028-538 **Wrong count value *count value* in RESERVE window request. It cannot be greater than largest window number which is the maximum logical window.**

Explanation: Issue **lsattr -E -l *logical_device_name*** to determine how many logical windows are on the device.

User Response: Run **lsattr -E -l *logical device name*** to determine how many logical windows there are on the device.

0028-539 **Count and window list mismatch in changing window attribute.**

Explanation: It might be a program error in RR_WINDOW ioctl call. The returned window number (count) and a list of window numbers do not match.

User Response: Contact the IBM Support Center.

0028-f00 **Could not open socket to the SP Switch Admin Daemon (cssadm).**

Explanation: Could not open a socket to the SP Switch Admin Daemon (cssadm).

User Response:

1. Verify that the swtadmd daemon is running on the control workstation.
2. Verify that the network is functional.
3. Record the above information and contact the IBM Support Center.

0028-f01 **Could not connect to the SP Switch Admin Daemon (cssadm), rc=*return code*.**

Explanation: Could not connect to the SP Switch Admin Daemon (cssadm).

User Response:

1. Verify that the swtadmd daemon is running on the control workstation.
2. Verify that the network is functional.
3. Record the above information and contact the IBM Support Center.

0028-f02 **Could not write to the SP Switch Admin Daemon (cssadm), rc=*return code*.**

Explanation: Could not write to the SP Switch Admin Daemon (cssadm).

User Response:

1. Verify that the swtadmd daemon is running on the control workstation.
2. Verify that the network is functional.

3. Record the above information and contact the IBM Support Center.

0028-f03 Failure reading socket from internal Eclock script.

Explanation: Could not read from the socket to the SP Switch Admin Daemon (cssadm).

User Response:

1. Verify that the swtadmd daemon is running on the control workstation.
2. Check that **root** has execute permissions on the file **/usr/lpp/ssp/bin/Eclock.internal**.
3. Verify that the network is functional.
4. Record the above information and contact the IBM Support Center.

0028-ff0 Could not execute internal Eclock script *filename*.

Explanation: Could not execute the internal **Eclock** script.

User Response: Check the file permissions on the specified file to make sure that **root** has execute permission, and rerun the **Eclock** command.

Chapter 12. 0034 - IBM Virtual Shared Disk common messages

0034-001 Cannot open or access file *file_name*.

Explanation: The file does not exist or does not have the appropriate permissions.

User Response: Verify that the file exists with the appropriate permissions.

0034-002 Error opening vsd *vsd_name*.

Explanation: The IBM Virtual Shared Disk device cannot be opened or does not exist.

User Response: Make sure that the IBM Virtual Shared Disk device exists.

0034-003 The *ioctl_string* **ioctl()** call failed.

Explanation: The **ioctl** call failed for the specified **ioctl**.

User Response: See the **errno** to determine the reason for failure.

0034-004 The call to **odm_initialize()** failed (**odmerrno** = *odmerrno_value*).

Explanation: The call to **odm_initialize()** to start the ODM for use by the IBM Virtual Shared Disk failed. The **odmerrno** variable has been set to indicate the error.

User Response: Use the *odmerrno_value* to determine the reason for failure.

0034-005 The call to **genmajor()** failed (**conferrno** = *conferrno_value*).

Explanation: The call to **genmajor()** to retrieve the IBM Virtual Shared Disk major number failed. The **conferrno** variable has been set to indicate the error.

User Response: Use the **conferrno** and the **errno** values to determine the reason for failure.

0034-006 Error unloading the VSD kernel extension.

Explanation: The **loadext()** call failed.

User Response: Check the system **errno** displayed to determine the reason for failure.

0034-007 The VSD device driver is not loaded.

Explanation: The IBM Virtual Shared Disk device driver should already be loaded.

User Response: Configure the IBM Virtual Shared Disk.

0034-008 The VSD *command_name* passed to the VSD Device with minor number VSD *minor_number* failed.

Explanation: The IBM Virtual Shared Disk device driver encountered an error condition while processing the specified command.

User Response: See the **errno** to determine the reason for failure.

0034-009 With the **-a** option, additional parameters are not allowed.

Explanation: The user specified the **-a** option on the command line. The user cannot specify additional parameters on the command line.

User Response: Issue the command again with no additional parameters.

0034-010 File *file_name* not found.

Explanation: The specified file does not exist.

User Response: Enter the IBM Virtual Shared Disk data in the SDR and this file will be created automatically the next time **cfgvsd** is called.

0034-011 Definition of VSD *vsd_name* not found in file *VSD_Table_pathname*.

Explanation: The specified IBM Virtual Shared Disk could not be found in the *VSD_Table* file.

User Response: Check that the data in the IBM Virtual Shared Disk files are correct. Modify the SDR as necessary.

0034-012 Definition of Global Volume Group *global_group_name* not found in file *VSD_Global_Volume_Group_file_pathname*.

Explanation: The specified global volume group could not be found in the *VSD_Global_Volume_Group_file*.

User Response: Check that the data in the IBM Virtual Shared Disk files are correct. Modify the SDR as necessary.

0034-013 Parameters of node *node_number* not found in file *node_file_pathname*.

Explanation: The local node in the node file could not be found. Not all IBM Virtual Shared Disk attributes are properly defined for the node *node_number*.

User Response: Run **vsdata1st -n** to display all IBM

Virtual Shared Disk node attributes and check the attributes for node *node_number*. Use the **vsdnode** command to properly define the IBM Virtual Shared Disk attributes for node *node_number*. Once the SDR has been modified, reissue the failing command.

0034-014 Cannot allocate memory for *item*.

Explanation: The **malloc** call to allocate temporary storage for the item failed.

User Response: This is a system problem.

0034-015 VSD *vsd_name* cannot be the same as the Logical Volume name.

Explanation: The IBM Virtual Shared Disk and the underlying logical volume cannot have the same name.

The **/dev** block and character files created by the IBM Virtual Shared Disk would overwrite the **/dev** block and character files created by the logical volume of the same name. Both the IBM Virtual Shared Disk and the logical volume would be rendered unusable.

User Response: Make up a new IBM Virtual Shared Disk name. The recommended convention is **vsd.lv_name**. Retry the operation.

0034-016 VSD *vsd_name* is in the *current_state* state. The *method* method moves VSDs from the *from_state* state to the *to_state*. Use commands to move *vsd_name* from the *current_state* to the *to_state* state.

Explanation: The method could not operate on the **vsd_name** because it was not in the proper state. The method expects IBM Virtual Shared Disks in the **from_state** and not the **current_state**

User Response: Use the commands that move the IBM Virtual Shared Disk from the **current_state** to the **to_state**.

0034-017 Command failed on *vsd_name*.

Explanation: The method invoked the command for **vsd_name**, and the command failed for that Virtual Shared Disk.

User Response: See the previous error message from the command to determine the reason for the error. This message gives you the **vsd_name** that the previous error message did not.

0034-018 *command* failed on VSD *ioctl*.

Explanation: The method invoked the command for VSD **ioctl** and the command was not successful.

User Response: See the previous error message from the command for details. This message gives you the

ioctl that the previous error message did not.

0034-019 Busy: Another *program* is running.

Explanation: Another instance of this command is running. Only one instance is allowed at a time.

User Response: Wait awhile and then retry the command.

0034-020 Only *number* VSDs can be monitored at the time.

Explanation: There is a limit to the number of Virtual Shared Disks that can be monitored at a time by Event Management from a given node.

User Response: Disable other Virtual Shared Disk monitoring before enabling this one.

0034-030 Maximum cache buffer count cannot be less than initial cache buffer count.

Explanation: The **-c** option specifies the initial cache buffer count and the **-x** option specifies the maximum cache buffer count. The maximum cache buffer count must be greater than or equal to the initial cache buffer count.

User Response: Check the **init_cache_buffer_count** and the **max_cache_buffer_count** attributes on the SDR **Node** object by using **vsdata1st -n** for the node on which you received this message. Correct the attributes using **vsdnode** and reissue the **cfgvsd** command.

0034-031 Error unlinking *device_name*.

Explanation: The IBM Virtual Shared Disk special file already exists with a device number different from the specified device number.

User Response: Use **rm** to remove the **device_name** from **/dev**.

0034-032 Error loading the VSD kernel extension.

Explanation: The **loadext()** call failed.

User Response: The error in loading the IBM Virtual Shared Disk kernel extension produces messages explaining the reason for failure prior to generating message 0034-032. Refer to these messages to determine what your action should be.

0034-033 Error configuring the VSD device.

Explanation: The **sysconfig()** call failed.

User Response: See the **errno** to determine the reason for failure.

0034-034 Device already exists.

Explanation: The `sysconfig()` call failed and `errno` is EALREADY. The device is already configured.

User Response: Do not attempt to configure a device that is already configured.

0034-035 *name* is too long. Length must be less than or equal to 31 characters.

Explanation: The name passed is unacceptable. The length of the name must be less than or equal to 31 characters.

User Response: Correct the name's length and reenter the command.

0034-036 Special Device File *file_name* already exists and does not have the proper VSD major number of *major_number*.

Explanation: The file the IBM Virtual Shared Disk is trying to create already exists for a non-IBM Virtual Shared Disk device.

User Response: Change the name of the IBM Virtual Shared Disk that conflicts with the existing device or remove the existing device file and reissue your operation.

0034-037 Can't create Special Device File *file_name*.

Explanation: The Virtual Shared Disk special device files that create operation (`mknod`) failed. The reason for the `mknod` failure is also printed.

User Response: Refer to the `mknod` failure message to correct the problem.

0034-040 Warning: Bad node number *node_number* in file *file_name*. Ignored.

Explanation: A bad node number was found in the `VSD_ipaddr` file.

User Response: No action required.

0034-050 Invalid Cache Size, *cache_size*.

Explanation: An invalid cache size was passed in.

User Response: Retry the command with a valid cache size.

0034-051 Warning: Invalid Node Number, *node_number*. Ignored!

Explanation: A node number passed in was out of the valid range 1,MAX_VSD_NODES.

User Response: No action required.

0034-052 Invalid parallelism value, *parallelism_value*.

Explanation: An invalid parallelism value was passed in. The value must be between 1 and 9.

User Response: Retry the command with a valid parallelism value.

0034-053 Invalid max IP message size value, *max IP message size value*.

Explanation: A maximum IP message size value that was not valid was passed in. The value must be between 512 and 65024 and be a multiple of 512.

User Response: Retry the command with a valid maximum IP message size.

0034-060 Invalid VSD command *command_name*.

Explanation: The command name passed to `dovsd2` was not valid.

User Response: Pass a valid command to `dovsd`. Valid commands are `preparevsd`, `suspendvsd`, `stopvsd`, and `ucfgvsd`.

0034-070 The -s and -l flags are not compatible.

Explanation: The `-s` (usage statistics) and the `-l` (configuration information) flags cannot be used together.

User Response: Reissue the command with only one of these flags.

0034-071 Cannot allocate memory for VSD information. The count of VSDs is *vsd_count*.

Explanation: The `malloc` call to allocate temporary storage for the IBM Virtual Shared Disk information failed.

User Response: Try again, specifying an IBM Virtual Shared Disk this time.

0034-080 Can't access logical volume *logical_volume*.

Explanation: The call to `stat` the logical volume to retrieve the device number failed.

User Response: Make sure the logical volume exists. You may need to create it with `mklv`.

0034-081 Duplicate nodes are not allowed in *server_list*.

Explanation: The parameters passed have one or more duplicate nodes.

User Response: Correct the parameters passed and retry.

0034-082 **The `—p` and `—b` flags are invalid with the `—l` flag, ignoring them.**

Explanation: The usage syntax is not valid.

User Response: Correct the syntax and retry.

0034-083 **The server `server_name` is not defined as a server node for VSD: `VSD_name`.**

Explanation: The VSD server node is not a valid one.

User Response: Use the `vsdnode` command to make the server node a VSD node.

0034-084 **The `—l` flag is used only for CVSD, ignored for normal VSD.**

Explanation: The `—l` flag is used only for concurrent virtual shared disks and is ignored for normal virtual shared disks.

User Response: Enter the command again without specifying the `—l` flag.

0034-090 **Invalid server specification. Specify one `-p` or `-b`.**

Explanation: The user must specify `-p` (primary) or `-b` (backup).

User Response: Reissue the command with either `-p` or `-b`.

0034-091 **No server specified. Specify one of `-p` or `-b`.**

Explanation: The user must specify `-p` (primary) or `-b` (backup).

User Response: Reissue the command with either `-p` or `-b`.

0034-092 **Server (`server_name`) for VSD (`server_name`) is invalid. Ignoring VSD `vsd_name`.**

Explanation: An invalid server was found for the specified IBM Virtual Shared Disk.

User Response: The IBM Virtual Shared Disk was ignored. Check primary and backup servers you entered for this IBM Virtual Shared Disk and correct them in the SDR.

0034-100 **The VSD character special device file `character_device_name` was not found. Run the command `cfgvsd vsd_name` to create the `device_name`.**

Explanation: The `/dev/r<vsd_name>` device file does not exist.

User Response: Run `cfgvsd` to configure the device.

0034-101 **The file `filename` was not found.**

Explanation: The file parameter passed was not found.

User Response: Check the file pathname and enter the command again.

0034-102 **Step 1: Step `step_number` failed. The return code is `return_code`.**

Explanation: The write of the vsdd device driver to the specified IBM Virtual Shared Disk failed.

User Response: Check that the IBM Virtual Shared Disk exists and has been properly installed and configured.

0034-105 **The file `file_name` is too small; it must be at least 512 bytes.**

Explanation: The minimum block size to a raw device is 512 bytes for `vsdvts` to be able to use it to write to an IBM Virtual Shared Disk.

User Response: Reissue `vsdvts`, specifying that it use a large file.

0034-108 **Could not change `VSD_name` from the `VSD_state` state to the active state.**

Explanation: The parameter to `vsdvts` must be an IBM Virtual Shared Disk in the active state.

User Response: Make sure you have defined your IBM Virtual Shared Disk; run `cfgvsd` and `startvsd`, and run `lsvsd -l` to see your IBM Virtual Shared Disk in the active state.

0034-109 **Could not determine the state of `VSD_name`. Run the command `cfgvsd VSD_name`.**

Explanation: The parameter to `vsdvts` must be an IBM Virtual Shared Disk in the active state.

User Response: Issue `lsvsd -l` to determine the problem.

0034-112 The block size must be a multiple of 512 to a raw VSD device.

Explanation: The block size must be a multiple of 512 for input and output to an IBM Virtual Shared Disk raw device. IBM Virtual Shared Disks are accessed as raw devices. For example, `dev/rvsd_name`. The `read` and `write` system calls fail to raw devices if the block size is not a multiple of 512.

User Response: Change the block size so that it is a multiple of 512 and issue the command again.

0034-116 Check `VSD_table_name` table in the SDR, cannot find the table.

Explanation: Some fields in the IBM Virtual Shared Disk table are incorrect.

User Response: Run SMIT to set IBM Virtual Shared Disk information.

0034-117 Check `VSD_table_name` table in the SDR, it is an empty table.

Explanation: Some fields in the IBM Virtual Shared Disk table are incorrect.

User Response: Run SMIT to set IBM Virtual Shared Disk information.

0034-118 Check `VSD_table_name` table in the SDR, undefined field is found.

Explanation: Some fields in the IBM Virtual Shared Disk table are incorrect.

User Response: Run SMIT to set IBM Virtual Shared Disk information.

0034-119 Failed to create new VSD files, default will be current `/usr/lpp/csd/vsdfiles`.

Explanation: At least one of the new IBM Virtual Shared Disk tables is incorrect.

User Response: Run SMIT to set IBM Virtual Shared Disk information.

0034-120 Lock file `file_name` held too long; I am taking it. You may want to investigate.

Explanation: `readSDR` uses a lock file, which is a directory. `readSDR` waits about 7 seconds for the lock, then generates this message and continues running. If you see this message after the first `cfgvsd` following a reboot, it probably means that the system crashed in the middle of a previous `cfgvsd`, leaving behind a lock file. If this is the case, you can ignore the message.

If the message is generated in circumstances other than the first `cfgvsd` following a reboot, it may be that another process is running a `cfgvsd` and that process is

hung. Insure that `/usr/lpp/csd/vsdfiles` is a writable directory on a writable file system.

User Response: If this is not the first `cfgvsd` after a reboot, check to see if another process is running `cfgvsd` and if that process is hung.

0034-121 Unable to find and create `vsd_flat_file_directory_name`.

Explanation: The file was not found and the `mkdir` command to create it failed.

User Response: Investigate the `mkdir` failure and fix the problem. If the parent directory is not writable on this node, go to a node where you can write to the directory and make this file a symbolic link to a file system that is writable from the original node.

0034-126 Failed to unconfigure `VSD_name` because it is part of a configured HSD.

Explanation: You cannot unconfigure an IBM Virtual Shared Disk that is inside of a configured HSD.

User Response: Issue `lshsd -l` to find the HSD, then unconfigure the HSD before unconfiguring the IBM Virtual Shared Disk.

0034-127 Some Virtual Shared Disks are not at appropriate state before operation. Use `lsvsd -l` to check the states.

Explanation: In order to run operations such as `preparevsd`, `startvsd`, `resumevsd`, `suspendvsd`, `stopvsd`, and `ucfgvsd`, the IBM Virtual Shared Disk must be in the appropriate state before running the operation.

User Response: Use the `lsvsd` command with the `-l` option to verify the IBM Virtual Shared Disk state.

0034-128 IBM Virtual Shared Disk is not configured.

Explanation: In order to run the `ucfgvsd` operation on an IBM Virtual Shared Disk, this IBM Virtual Shared Disk must be configured first.

User Response: Use the `cfgvsd` command to configure the IBM Virtual Shared Disk, and try the failed command again.

0034-135 Invalid VSD `VSD name`.

Explanation: The specified IBM Virtual Shared Disk name was invalid.

User Response: Use the `lsvsd` command to list VSD names.

0034-136 **Cannot execute** *function name*.

Explanation: Error using a command.

User Response: Retry the operation.

0034-137 **Invalid Node** *VSD name*.

Explanation: Invalid VSD name.

User Response: Use the **lsvsd** command to list IBM Virtual Shared Disk names.

0034-141 **Unable to read volgrp timestamp for**
volume group name.

Explanation: The volume group timestamp could not be read. This is probably because another node has the volume group varied online.

User Response: Check that the volume group is online to this node.

0034-150 **The defined VSD communication**
adapter does not support KLAPI.

Explanation: The node is configured with an adapter that does not support the KLAPI protocol. Currently, css0 is the only KLAPI supported adapter.

User Response: If you need KLAPI, change the **vsd_adapter** to css0.

0034-151 **Unable to perform:** *command*.

Explanation: Unable to perform a command line action.

User Response: Contact the IBM Support Center.

0034-160 **Error opening vsd** *vsd name*.

Explanation: Could not open Virtual Shared Disk device.

User Response: Check the error log entries and trace for more information.

0034-161 **Error on ioctl STAT vsd** *vsd name*.

Explanation: STAT ioctl was not successful.

User Response: Check the error log entries and trace for more information.

0034-170 **Incorrect program name is an invalid**
program name.

Explanation: The program was called with a name which was not valid.

User Response: Call the program using only valid names such as **fencvg**, **unfencevg** and **lsfencevg**.

0034-171 **No volume group specified with the**
—v flag.

Explanation: Incorrect syntax.

User Response: Correct the syntax and enter the command again.

0034-172 **volume group name is an invalid volume**
group name.

Explanation: The volume group name passed is not valid.

User Response: Correct the syntax and enter the command again.

0034-173 **No disks found for volume group**
volume group name.

Explanation: There were no hdisks found for the volume group specified.

User Response: Determine if the volume group name specified is correct and retry the command.

0034-174 **No nodes were specified.**

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-175 **The node or nodes specified are not in**
the same cluster.

Explanation: One or more node parameters passed are not in the same cluster.

User Response: Remove the node or nodes not in the same cluster from the parameters.

0034-176 **The node parameter —n is not allowed**
with flag.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-180 **You must have root authority to run**
this command.

Explanation: You do not have the correct authority to run this command.

User Response: Obtain the necessary root authority and enter the command again.

0034-181 No Operation (-L, -F, or -U) was specified.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-182 Options *flag* and *flag* may not be used together.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-183 Options *flag*, *flag*, or *flag* may not be used with -L parameter.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-184 Option *flag* may not be used with the -L parameter.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-185 Multiple instance of *flag* are not supported.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-186 No disks specified.

Explanation: Incorrect usage.

User Response: Correct the syntax and enter the command again.

0034-187 *hdisk name* is not in ODM (CuDv) database or is not an SSA disk.

Explanation: A disk name was passed that is not in CuDv or not an SSA disk.

User Response: Ensure the disk is an SSA disk and run **cfgmgr** to try to correct CuDv.

0034-188 Error opening *hdisk name*.

Explanation: Could not open Virtual Shared Disk device.

User Response: Check the error log and trace for more information about the error.

0034-189 The fence transaction failed on *decimal number* SSA disks.

Explanation: SSA disk fence was not successful.

User Response: Check the error log and trace for more information about the error.

0034-190 Fence ioctl transaction failed on *hdisk name* with error.

Explanation: SSA disk fence ioctl was not successful.

User Response: Check the error log and trace for more information about the error. The following information also appears with this message:

- \trc = *return code*; *errno value*
 - \tInvalid Fence data
 - \tInvalid Mask data
 - \tNode is fenced out
 - \tReservation conflict
 - \tIOCTL error *return code* occurred
-

0034-501 uiomove failed.

Explanation: The device driver failed to copy information from **sysconfig**.

User Response: Check the system memory space.

0034-502 bad host node number *node_number*.

Explanation: The host node number passed by the **sysconfig** call is not in the range 1 to 2048.

User Response: Check that the virtual shared disk server node is in the VSD global volume group class.

0034-503 out of memory.

Explanation: Allocation of pinned memory in the kernel failed.

User Response: Check the system memory space.

0034-504 devswqry failed.

Explanation: A query of the system device switch table failed.

User Response: Check the major number of **/dev/VSD0** and the system device switch table.

0034-505 devswqry: major number already defined.

Explanation: There is some existing information in the system switch table with the virtual shared disk major number.

User Response: Check the major number of the **/dev/VSD0** file.

0034-506 devswadd failed.

Explanation: Add of **vsdd** functions to the device switch table failed.

User Response: Check the device major number from the **/dev** directory and reboot the node. Record the above information and contact the IBM Support Center.

0034-507 pincode failed.

Explanation: A failure occurred loading **vsdd** driver code into pinned memory.

User Response: Reboot the node, record the above information and contact the IBM Support Center.

0034-508 devswdel failed.

Explanation: A failure occurred deleting **vsdd** entries from the device switch table.

User Response: Reboot the node, record the above information and contact the IBM Support Center.

0034-509 vsd_Init_Buffer_Cache failed.

Explanation: The virtual shared disk device driver failed to initialize its internal buffers and cache.

User Response: Record the above information and contact the IBM Support Center.

0034-510 unpincode failed.

Explanation: Release of pinned memory used by the virtual shared disk device driver failed. This occurred after a failure to initialize the internal buffers and cache of the device driver.

User Response: Reboot the node, record the above information and contact the IBM Support Center.

0034-511 install ip protocol failed.

Explanation: The virtual shared disk device driver was unable to initialize its IP protocol switch entry.

User Response: Check the IP protocol number in **/usr/lpp/csd/bin/cfgvsde**. Record the above information and contact the IBM Support Center.

0034-512 unpincode failed.

Explanation: Release of pinned memory used by the virtual shared disk device driver failed. This occurred after a failure while installing the virtual shared disk IP protocol.

User Response: Reboot the node, record the above information and contact the IBM Support Center.

0034-513 vsd_Assure_Index_Created failed.

Explanation: Vsd device driver internal function call failed.

User Response: Record the above information and contact the IBM Support Center.

0034-514 vsd_Init_LRU_Cache failed.

Explanation: Vsd device driver internal function call failed.

User Response: Record the above information and contact the IBM Support Center.

0034-515 device (device major number, device minor number) already configured.

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is not empty.

User Response: You cannot configure a device that is already configured.

0034-516 device (device major number, device minor number) not configured.

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is empty.

User Response: You cannot move an unconfigured virtual shared disk to SUSPENDED state.

0034-517 device (device major number, device minor number) not in STOPPED state.

Explanation: In order to run the **preparevsd** command to promote vsds to the SUSPENDED state, these vsds must be in the STOPPED state. The problem may be that these vsds have not been configured.

User Response: Run the **cfgvsd** command to bring these vsds into the STOPPED state.

0034-518 device (device major number, device minor number) already in SUSPENDED state.

Explanation: The device is already in the SUSPENDED state.

User Response: None.

0034-519 device (device major number, device minor number) not configured.

Explanation: An unconfigured device cannot be brought into the ACTIVE state.

User Response: Run the **cfgvsd** command before running the **startvsd** command.

0034-520 **device** (*device major number, device minor number*) **not in STOPPED state.**

Explanation: You cannot bring a device that is not in the STOPPED state to the ACTIVE state.

User Response: Run the **lsvsd -l** command to check the state of the devices. Run the **resumevsd** command if these devices are in the SUSPENDED state.

0034-521 **device** (*device major number, device minor number*) **already in ACTIVE state.**

Explanation: The device is already in the ACTIVE state.

User Response: None.

0034-522 **cannot open device** (*device major number, device minor number*) **on cpu node number.**

Explanation: The IBM Virtual Shared Disk device cannot be opened or does not exist.

User Response: Verify that the device exists and has the appropriate permissions.

0034-523 **vsd with minor number** *device minor number* **not configured.**

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is empty.

User Response: You cannot move an unconfigured virtual shared disk to the **SUSPEND** state.

0034-524 **vsd with minor number** *device minor number* **in STOPPED state.**

Explanation: You cannot suspend a device in the STOPPED state.

User Response: The **suspendvsd** command can only be run with devices in the ACTIVE state.

0034-525 **device** (*device major number, device minor number*) **already in SUSPENDED state.**

Explanation: You cannot suspend a device that is already in the SUSPENDED state.

User Response: None.

0034-526 **bad server node number** *node_number*.

Explanation: An invalid server node number is passed from sysconfig.

User Response: Check the *node_number* in SDR Node class.

0034-527 **vsd device with minor number** *device minor number* **not in SUSPENDED state.**

Explanation: In order to resume a device to the ACTIVE state, this device must be in the SUSPENDED state.

User Response: Run the **lsvsd -l** command to verify the state of the specified device.

0034-528 **cant open device** (*device major number, device minor number*) **on cpu node number.**

Explanation: The IBM Virtual Shared Disk Device cannot be opened or does not exist.

User Response: Verify that the device exists and has the appropriate permissions.

0034-529 **device** (*device major number, device minor number*) **not configured.**

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is empty.

User Response: You cannot unconfigure a virtual shared disk that has not been configured. Run the **lsvsd -l** command to verify the state of the virtual shared disk device.

0034-530 **failed to remove entry points.**

Explanation: Removal of the virtual shared disk from the device switch table failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-531 **unpincode failed.**

Explanation: Release of pinned kernel memory used by the virtual shared disk device driver failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-532 **device** (*device major number, device minor number*) **NOT configured.**

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is empty.

User Response: This device must be configured and in the ACTIVE state. Run the **lsvsd -l** command to verify the device state.

0034-533 **device** (*device major number, device minor number*) in **STOPPED** state.

Explanation: The entry in the **vsd_hash_table** for the specified virtual share disk is empty.

User Response: This device must be configured and in the ACTIVE state. Run the **lsvsd -l** command to verify the device state.

0034-534 **device** (*device major number, device minor number*) **NOT configured/opened**.

Explanation: Either the entry in the **vsd_hash_table** for the specified virtual share disk is empty, or it is not marked as opened.

User Response: This device must be configured, in the ACTIVE state, and opened. Run the **lsvsd -l** command to verify the device state.

0034-535 **GIOCVON copyin failed.**

Explanation: Copying of **ioctl** data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-536 **parallelism copyin failed.**

Explanation: Copying of **ioctl** data to the virtual share disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-537 **parallelism value invalid.**

Explanation: The parallelism value for **uphysio** is invalid.

User Response: The parallelism value should be in the range of 1 to 9.

0034-538 **set max IP message size copyin failed, rc=rc.**

Explanation: Copying of **ioctl** data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-539 **max IP message size value () invalid.**

Explanation: The value must be a multiple of 512 and not greater than 65024.

User Response: Correct the max IP message size value.

0034-540 **VSD GIOCSTAT copyout failed.**

Explanation: Copy of data from the virtual shared disk device driver handler to the user API failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-541 **GIOCGET device** (*device major number, device minor number*) **NOT configured**.

Explanation: The entry in the **vsd_hash_table** for the specified virtual shared disk is empty. In order to obtain virtual shared disk device information, this device must be configured.

User Response: Run the **lsvsd** command to verify that this device is configured.

0034-542 **GIOCGET copyout failed.**

Explanation: Copy of data from the virtual shared disk device driver handler to the user API failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-543 **GIOCGETL copyin failed.**

Explanation: Copying of **ioctl** data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-544 **GIOCGETL copyout failed.**

Explanation: Copying of data from the virtual shared disk device driver handler to the user API failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-545 **set cache size copyin failed.**

Explanation: Copying of **ioctl** data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-546 **could not increase cache size.**

Explanation: A call to **vsd_Define_Cache_Size(hsize)** failed. Either the value of **hsize** is too small, or it is equal to the current Initial cache buffer count, or it is greater than the maximum cache buffer count.

User Response: Run the `vsdata1st -n` command to verify current values.

0034-547 flush a range of cache on a virtual shared disk copyin failed.

Explanation: Copying of `ioctl` data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-548 reset all counters(GIOCRST), copyin failed.

Explanation: Copying of `ioctl` data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-549 bad node to GIOCRST.

Explanation: An invalid node number has been passed to `vsd_ioctl`.

User Response: Run the `/usr/lpp/ssp/bin/SDRGetObject Node node_number` command to verify the node number.

0034-550 vlevel copyin failed.

Explanation: Copying of `ioctl` data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-551 bad node number *node number* to GIOCKST.

Explanation: An invalid node number has been passed to `vsd_ioctl`.

User Response: Run the `/usr/lpp/ssp/bin/SDRGetObject Node node_number` command to verify the node number.

0034-552 GIOCSETA copyin failed.

Explanation: Copying of `ioctl` data to the virtual shared disk device driver handler failed.

User Response: This is a system problem. Record the above information and contact the IBM Support Center.

0034-553 device (*device major number, device minor number*) NOT configured.

Explanation: The entry in the `vsd_hash_table` for the specified virtual shared disk is empty. In order to obtain virtual shared disk device information, this device must be configured.

User Response: Run the `lsvsd` command to verify that this device is configured.

0034-554 invalid ioctl request 0x *requested ioctl function number*.

Explanation: An invalid `ioctl` command code has been passed to the virtual shared disk device driver.

User Response: Compare the `ioctl` command code in the API program to those valid values defined in the `/usr/include/vsd_ioctl.h` file.

0034-555 uphysio failed on virtual shared disk with minor number *device minor number*.

Explanation: A `read` operation on the specified virtual shared disk failed.

User Response: On both the client and server nodes, run the `lsvsd -l` command to verify if this device is in the ACTIVE state.

0034-556 uphysio failed on vsd with minor number *device minor number*.

Explanation: A write operation on the specified virtual shared disk failed.

User Response: Run the `lsvsd -l` command to verify that this device is in the ACTIVE state on both client and server nodes.

0034-557 start_vsd_comms: failed.

Explanation: KAPI initialization failed.

User Response: Check the virtual shared disk device driver type and switch IP driver `css` type. This could be an internal error. Record the above information and contact the IBM Support Center.

0034-601 *service_program* failed.

Explanation: A call to the specified service program failed.

User Response: Check that the base function specified is available and working properly.

0034-602 **The repository cannot be accessed.**
Return code was *return_code*.

Explanation: The routine could not access the System Data Repository. The routine terminates.

User Response: Correct the problem with the repository.

0034-603 **This program must be run on the control work station.**

Explanation: The failing command can only be run on the control work station.

User Response: Login the control work station and try the command again.

0034-604 **Cannot specify both *option1* and *option2* options.**

Explanation: The failing program can work only on one of these options.

User Response: Refer to the man page for the failing command, pick one of the options and try again.

0034-605 **Must specify either *option1* or *option2* option.**

Explanation: A required option is missing.

User Response: Retry the command with valid operands.

0034-606 **Option *option* is missing.**

Explanation: A required option is missing.

User Response: Retry the command with valid operands.

0034-607 **Unknown option *option*.**

Explanation: An invalid option is specified.

User Response: Remove the invalid option and try the command again.

0034-608 **Node *node_number* cannot be found in repository.**

Explanation: Node information for the specified node number cannot be found in the SDR. You may have specified an invalid node number.

User Response: Run the `/usr/lpp/ssp/bin/SDRGetObjects Node node_number` command to verify the information.

0034-609 **Cannot find host name in SDR for node *node_number*.**

Explanation: Host name information for the specified node number cannot be found in the SDR. Either you have specified a wrong node number, or the host name is not defined in the SDR.

User Response: Run `/usr/lpp/ssp/bin/SDRGetObjects Node initial_hostname node_number` to verify the information.

0034-610 **Fails to call `sysctl vsd_sysctl_program`.**

Explanation: You must have `sysctl` privileges to run this command.

User Response: Check your Kerberos `sysctl` authorization.

0034-611 **No valid VSD host specified.**

Explanation: The `vsddiag` command cannot find the host name from the SDR for a node.

User Response: Run the `/usr/lpp/ssp/bin/SDRGetObjects Node initial_hostname node_number` command to verify the information.

0034-612 **`mklv stripe size must be a power of two, between 4K and 128K, for example 4, 8, 16, 32, 64 or 128K.`**

Explanation: You have specified an invalid LVM stripe size using `createvsd`.

User Response: Specify a valid stripe size or omit the `-p` option.

0034-613 **Out of memory in *function name*.**

Explanation: There is not enough memory in the system to run the `vsddiag` command.

User Response: Try the command again later. If problems persist, record the above information and contact the IBM Support Center.

0034-614 **Server node *node number* for vsd with minor number *minor number* on node *node number* is not up.**

Explanation: The IBM Virtual Shared Disk on the server node must be in the ACTIVE state.

User Response: Login the server node, run the `cfgvsd -a` command and then run the `startvsd -a` command.

0034-615 Server_node *node number* has been cast out by node *node number*.

Explanation: The server node is considered to be DOWN.

User Response: Check the node's UP or DOWN status information in the `/var/adm/SPlogs/csd/vsd.log` file.

0034-616 Node *node number* expect sequence number *sequence number* does not match node *node number* outgoing sequence number *sequence number*.

Explanation: The expected request sequence number on the client node is not the same as the outgoing sequence number on the server node.

User Response: Run the `suspendvsd` command on all nodes. Run the `ctlvsd -R` command on all nodes to reset the outgoing and expected request sequence number.

0034-617 Cannot find server node *node number* for client node *node number*.

Explanation: The expected request sequence number on the client node is not the same as the outgoing sequence number on the server node.

User Response: Run the `suspendvsd` command on all nodes. Run the `ctlvsd -R` command on all nodes to reset the outgoing and expected request sequence number.

0034-618 Vsd driver_type on node *node_number* is not the same as other vsd drivers on the SP system or system partition.

Explanation: The IBM Virtual Shared Disk driver has 2 types: IP and KCI. It cannot communicate between different types.

User Response: Run the `statvsd` command on all nodes to check the device types.

0034-619 Device driver on node *node_number* is not at the same level as others on this SP system or system partition.

Explanation: The `/etc/drivers/vsdd` file is not at the same level on all nodes.

User Response: Unconfigure IBM Virtual Shared Disks and install the same virtual shared disk drivers on all the nodes.

0034-620 VSD Maximum IP Message Size on node *node_number* is not the same value as the VSD Maximum IP Message Sizes of other nodes on this SP system or system partition.

Explanation: If the maximum `vsdIPmsgSize` is not the same on all nodes, I/O requests may be truncated into different subrequest sizes.

User Response: Check the value of `vsdIPmsgSize` in the SDR Node class. Use either the `updatevsdnode` command or the `ctlvsd` command to correct it.

0034-621 RVSD state on node *node_number* is not at the same state as other nodes on this SP system or system partition.

Explanation: The Recoverable Virtual Shared Disk subsystem is running on some nodes but not all the nodes of the SP system or system partition.

User Response: Use the `ha_vsd reset` command to start the Recoverable Virtual Shared Disk subsystem on all nodes. If this fails, disable the Recoverable Virtual Shared Disk subsystem on all nodes and then retry the `ha_vsd reset` command.

0034-622 Device *vsd name* not found.

Explanation: Cannot find the specified device in the SDR.

User Response: In order to update a device's option, it must be defined in the SDR.

0034-623 Node *node_number* is not a VSD node.

Explanation: `VSD_adapter` must be defined for the specified node to run the `createvsd` or `createhsd` commands.

User Response: Specify `VSD_adapter` in the SDR Node class on the specified node and try the failing command again.

0034-624 The last character of the vsd name prefix cannot be a digit.

Explanation: The prefix is used as a pattern to be searched in the SDR `VSD_Table` to generate a new IBM Virtual Shared Disk name. If a prefix has a number as the last digit, such as the prefix `VSD1`, both `VSD1` and `VSD11` contain the pattern `VSD1`, and an ambiguity arises.

User Response: Specify a valid name prefix and try the command again.

0034-625 **The value of `-t` *hsd stripe size* in `createhsd` must be a multiple of 4 and less than 1048576.**

Explanation: The stripe size on an IBM Hashed Shared Disk must be a multiple of 4 K and not greater than 1048576 K.

User Response: Specify a valid stripe size and try the command again.

0034-626 **The unit of option `t` is K (1024 bytes); the value *hsd stripe size* must be a multiple of 4 and not greater than 1048576.**

Explanation: The stripe size on an IBM Hashed Shared Disk must be a multiple of 4 K and not greater than 1048576 K.

User Response: Specify a valid stripe size and try this command again.

0034-627 **The value of mirror count *mirror count* is invalid. It must be in the range of 1 to 3.**

Explanation: IBM AIX LVM requires a mirror count between 1 and 3.

User Response: Specify a valid mirror count and try the command again.

0034-628 **The lock directory *directory name* is held by someone else. try later.**

Explanation: In order to generate consistent and unique device names, a directory is used as a lock. If the lock is held by someone else and not released in a short time, the current program will terminate.

User Response: Check the time when the lock directory was created. If it was left a long time ago, you can remove it. Otherwise, you should try the command later.

0034-629 ***hsd_name* is not a configured hsd device.**

Explanation: The command `lshsd hsd_name` failed. Either *hsd_name* is not a valid hsd name or it is not configured.

User Response: You cannot unconfigure a unconfigured device.

0034-630 **Node *node_number* cannot be specified as both primary and backup node for the specified volume group *vg_name*.**

Explanation: The `createvsd` command checks the nodes specified with the `-n` option to ensure that the same node cannot be specified as both the primary

node and the backup node for a given LVM logical group.

User Response: Modify the *node_list* and rerun the command.

0034-631 **Node *node_number* cannot be specified twice in the `-n` node list.**

Explanation: The `createvsd` command checks the nodes specified with the `-n` option to ensure that a node cannot be specified twice as the primary or backup node.

User Response: Modify the *node_list* and rerun the command.

0034-632 **This command cannot be used on the control work station. Please use this command only on IBM Virtual Shared Disk client or server nodes.**

Explanation: Underlying `cfgvsd` and `cfghsd` commands cannot be run on the control workstation.

User Response: Rerun the command on an IBM Virtual Shared Disk client or server node.

0034-633 **Vsd with minor number *device minor number* is at ACTIVE state on client node *node number*, but it is NOT active on server node *node number*.**

Explanation: The IBM Virtual Shared Disk on the server node must be in the ACTIVE state.

User Response: Login the server node, run the `cfgvsd -a` command and then run the `startvsd -a` command.

0034-634 ***caller_program*: SDRChangeAttrValue failed to update *entry-name attribute-name* attribute in the *SDR-class*.**

Explanation: The specified program failed to update the specified SDR information.

User Response: Run the `SDRGetObjects` command to verify the class.

0034-635 ***caller_program* : RVSD is not active.**

Explanation: The `rvsd` subsystem is not active. The group has not reached a quorum yet and has not activated yet.

User Response: Run the `ha_vsd query` command to see if more nodes must join the group to meet the quorum requirements.

0034-645 Node *node name* is not part of a cluster.

Explanation: The `createvsd` command was issued to create a concurrent virtual shared disk, but the servers specified are not part of a cluster.

User Response: Use the `updatevsdnode` command to define the servers into a cluster.

0034-646 All nodes specified as part of a CVSD should belong to the same cluster.

Explanation: The `—k` flag was passed and not all concurrent virtual shared disks belong to the same cluster.

User Response: Ensure that all virtual shared disks belong to the same cluster with the `—k` option.

0034-647 `sysctl sysctl_vsdcheck` failed.

Explanation: The message indicates that you do not have the correct authorization to issue this command.

User Response: Check your `sysctl` authorization.

0034-648 Not authorized to run *calling program*.

Explanation: The message indicates that you do not have the correct authorization to issue this command.

User Response: Check your `sysctl` authorization.

0034-649 Invalid format for `—n` option.

Explanation: The `—n` parameter is being used with incorrect syntax.

User Response: Correct the syntax and enter the command again.

0034-650 Invalid `—T` partition size. Valid values are 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024.

Explanation: An incorrect value was used with the `—T` flag.

User Response: Correct the syntax and enter the command again.

0034-651 Can specify at most two servers for a VSD, Use `—k` CVSD for a CVSD.

Explanation: More than two servers were specified. Only two servers are allowed for a normal Virtual Shared Disk.

User Response: Either use option `—k` CVSD or reduce the number of servers to two.

0034-652 The HSD size (`-s` option) is too small for the stripe size (`-t` option). The total size of the underlying VSDs will be larger than the HSD size. Increase the HSD size or decrease the stripe size.

Explanation: The stripe size specified makes the Virtual Shared Disks too large for the Hashed Shared Disks.

User Response: Either increase the Hashed Shared Disk size or decrease the stripe size.

0034-653 An HSD requires more than one VSD. Increase the number of servers (with the `—n` option) or increase the number of VSDs (with the `—c` option).

Explanation: Only one Virtual Shared Disk is allowed for a Hashed Shared Disk.

User Response: Either increase the number of servers or the number of Virtual Shared Disks.

0034-654 You have specified a VSD name that is part of an HSD. Use `removevsd` to remove the HSD and all underlying VSDs.

Explanation: The `removevsd` command was issued to remove a Virtual Shared Disk that is part of a Hashed Shared Disk.

User Response: Use `removevsd` to remove the Virtual Shared Disks that are part of a Hashed Shared Disk.

Chapter 13. 0035 - cstartup messages

0035-001 Cannot create *log file* directory.

Explanation: cstartup could not create the named log file directory.

User Response: Investigate why directory could not be created.

0035-002 Cannot create/write to *log file*.

Explanation: cstartup could not create/write the named log file.

User Response: Investigate why file could not be created/written.

0035-004 Cannot read the *sequence file*.

Explanation: cstartup could not read sequence file.

User Response: Investigate why file could not be read.

0035-005 Argument specified with **-W**, *argument*, is not valid.

Explanation: The argument specified with the **-W** flag is not valid.

User Response: Specify a numeric argument, or "AUTO" with the **-W** flag.

0035-006 Argument specified with **-W**, *argument*, is negative.

Explanation: Argument specified with **-W** flag is negative.

User Response: Specify an argument with the **-W** flag that is 0 or positive.

0035-008 Option specified, *invalid option*, is not valid.

Explanation: An invalid option was specified on the command line.

User Response: See the usage message for valid options.

0035-009 Option specified, *option*, requires an argument.

Explanation: The option specified requires a parameter.

User Response: See the usage message for command syntax.

0035-010 The "target_nodes" parameter was not specified.

Explanation: The target_nodes was not specified on the command line.

User Response: Reissue the cstartup command with target nodes.

0035-011 The specified file, *file*, is not readable.

Explanation: A file was specified in target_node parameter that is not readable.

User Response: Investigate why the file is unreadable.

0035-012 Error reading target nodes from specified file, *specified file*.

Explanation: An error occurred reading from a file specified in the target_node parameter.

User Response: Investigate why the file is unreadable.

0035-013 The **-N** option was specified, and *specified node number* is not a valid node number.

Explanation: A value specified in the target_nodes parameter is not a number.

User Response: When specifying **-N**, only give numbers for the target_nodes parameter.

0035-014 The **-N** option was specified, and *lower range number, upper range number* is not a valid range of node numbers.

Explanation: A node number range, A-B, was specified where A is not less than B.

User Response: When a node number range, A-B, is specified, A should be less than B.

0035-015 "SDRGetObjects Node *node_number*" unsuccessful with a return value of *SDR return_code*.

Explanation: The SDRGetObjects command could not obtain information about the processor nodes on the SP system.

User Response: Investigate the cause of the SDRGetObjects problem using the return value provided.

0035-016 **Could not determine whether command was running on the control workstation.**

Explanation: Could not find /usr/lpp/ssp/install/bin/node_number, or it returned an error code.

User Response: Try running /usr/lpp/ssp/install/bin/node_number and investigate the error.

0035-017 **This command can only be run on a control workstation.**

Explanation: The command was not run on a control workstation.

User Response: Run the command on a control workstation.

0035-018 **Target node(s) *target_node* is not in current partition.**

Explanation: The command was issued without the **-G** option, and one or more target nodes specified are outside the current system partition. Unless you specify **-G**, the command allows startup only for the nodes in the current system partition.

0035-019 **—N and —g are incompatible options.**

Explanation: Target cannot be both node numbers and node groups.

User Response: Enter the command again with node numbers or node groups.

0035-021 **Node group could not be resolved.**

Explanation: The command, **ngresolve**, failed for the supplied node group.

User Response: Use the **nglist** command to see if the supplied node group exists in the current system partition. If the **—G** flag was supplied, the node group must exist as a system node group.

0035-100 **Unexpected error in attempt to allocate memory in routine *routine name*.**

Explanation: A call to **malloc()** failed.

User Response: Try command again. If the problem persists, contact customer support.

0035-101 **csStart invoked without target node list.**

Explanation: **csStart** was invoked without a list of target nodes.

User Response: **csStart** is meant to be invoked only from **cstartup**.

0035-102 **Could not obtain list of all cluster nodes.**

Explanation: **cstartup** could not obtain the list of cluster nodes.

User Response: Investigate the cause of the problem. The cause may be described in prior messages.

0035-103 **Unable to create linked list.**

Explanation: An attempt to create a linked list structure was not successful.

User Response: Try the command again. If the problem persists, contact the IBM Support Center.

0035-104 **A character specified in target node list is not allowed. The target node list may not contain the following characters: # , > :**

Explanation: The target nodes specified on the command line, or in a file if the **-R** flag was specified, contained an illegal character.

User Response: Specify the target nodes without these characters: "**#,>:**".

0035-105 **The target node list passed to csStart contains a tab character, which is not allowed.**

Explanation: The target node list passed to **csStart** contains a tab character.

User Response: Remove the tab character from target node list.

0035-106 **No nodes listed in target node list.**

Explanation: The target node list specified on the command line is empty.

User Response: Specify target nodes when invoking this command.

0035-107 **Unknown node, *node name*, listed in target node list.**

Explanation: The target node list specified an unknown node.

User Response: Issue the command again specifying known nodes.

0035-108 Could not obtain power status for node *node number*.

Explanation: Could not obtain power status for the indicated node from the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0035-109 Could not determine whether node *node number* is running.

Explanation: Could not obtain status for the indicated node from the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0035-110 Node *node_number* appears to be running, yet it also appears to be powered off. The node may be in an intermediate state. Ensure the node is not hung. Make sure HostResponds is reporting the correct state. If node is hung, power off the node either using SP Perspectives or physically power it off at the frame.

Explanation: The node appears to be both running and powered off. Apparently, the node is in an intermediate state. The **cstartup** command will not run while nodes are in this state.

User Response: Try the command again in a few minutes.

0035-111 The following groups in *group name*, have circular sequencing relationships:

Explanation: There is a circular dependency among the groups listed. A simple circular dependency would be $A > B > A$. In this example, A depends on B, and B depends on A.

User Response: Redefine the dependencies in the file such that none of them are circular.

0035-112 Character that is not allowed in node name *node name*. Nodes are not permitted to contain **:**, **>**, **#**, **commas**, **tabs**, or **blanks** in their names.

Explanation: The name of the specified node contains a character that **cstartup** cannot deal with correctly.

User Response: Remove any illegal characters.

0035-113 Was unable to add *group name* group to a linked list.

Explanation: An attempt to add information about a group to a linked list failed. This is either a programming error, or a **malloc()** error.

User Response: If this is a **malloc()** error, try the command again.

0035-114 Was unable to create a linked list for group *group name*

Explanation: An attempt to create a linked list for the group failed. This is either a programming error, or a **malloc()** error.

User Response: If this is a **malloc()** error, try the command again.

0035-115 An already defined node, *node name*, has lost its group structure pointer.

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0035-116 An already defined node, *node name*, has lost its group name pointer.

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0035-117 In line *line number* of sequence file, node *node name*, is assigned to group *new group name*. But, it had already been assigned to group *old group name*.

Explanation: The specified node is assigned to two groups.

User Response: Change group definitions such that each node is in at most one group.

0035-118 Was unable to add *node name* node to a linked list.

Explanation: An attempt to add information about a node to a linked list failed. This is either a programming error, or a **malloc()** error.

User Response: If this is a **malloc()** error, try the command again.

0035-119 Could not locate group *group name* in group list.

Explanation: An attempt to find information about a group in a linked list failed. This is a programming error.

User Response: Contact your customer support organization.

0035-120 **Trying to create an unknown node type.**

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0035-123 **Unable to open *file name*.**

Explanation: Attempt to open file failed.

User Response: Investigate cause of failure.

0035-124 **Premature end of line encountered in sequence file at line *line number*.**

Explanation: Expected more information on line.

User Response: Ensure the line is correct according to the syntax for sequence files.

0035-125 **The name *reserved name*, is a reserved internal name and may not be used as a group name. It is used in line *line number*. of sequence file.**

Explanation: The cstartup command uses an internal group to keep track of nodes that are not explicitly assigned a group. The name of this internal group is reserved. A group defined in a sequence file uses this reserved name.

User Response: Change the name of the group in the sequence file.

0035-126 **No node specified following : at line *line number* of sequence file.**

Explanation: A group definition line in a sequence file does not provide a list of members for the group.

User Response: Correct the group definition line.

0035-127 **No node specified following comma at line *line number* of sequence file.**

Explanation: A group definition line in a sequence file ends with a comma.

User Response: Correct the group definition line.

0035-128 **Blank or tab found in node name at line *line number* of sequence file.**

Explanation: A blank or tab was found in a node name in a sequence file. Node names must not contain blanks or tabs.

User Response: Correct the node name in the sequence file.

0035-129 **Group definition line was corrupted for line *line number* of sequence file.**

Explanation: There is an error in the group definition line.

User Response: Review any previous messages and correct the line.

0035-130 **Comma found in group name at line *line number* of sequence file.**

Explanation: A comma was found in a group name in a sequence file. Node names must not contain commas.

User Response: Correct the group name in the sequence file.

0035-131 **Blank or tab found in group name at line *line number* sequence file.**

Explanation: A blank or tab was found in a group name in a sequence file. Group names must not contain blanks or tabs.

User Response: Correct the group name in the sequence file.

0035-132 **More than one ":" in line *line number* of sequence file.**

Explanation: A group definition line must only contain one ":", which separates the group name from the group members.

User Response: Correct the sequence file.

0035-133 **Sequencing is not allowed on definition lines. A ">" was found in line *line number* of sequence file.**

Explanation: A group definition line must not contain a ">", which is used on sequencing lines.

User Response: Correct the sequence file.

0035-134 **Parenthesis not allowed in definition lines. Parenthesis found in line *line number* of sequence file.**

Explanation: A group definition line must not contain a parenthesis.

User Response: Correct the sequence file.

0035-135 **A node that is not allowed, *node name*, appears at line *line number* of sequence file.**

Explanation: A non-existent node is in a line of the sequence file.

User Response: Correct the sequence file.

0035-136 Definition is not allowed in sequencing lines. A ":" was found in line *line number* of sequence file.

Explanation: A group sequencing line must not contain a ":", which is used on group definition lines.

User Response: Correct the sequence file.

0035-137 A sequencing line needs at least 1 sequence in the line. Invalid sequencing line at line *line number* of sequence file.

Explanation: A group sequencing line must at least define the relationship between two groups.

User Response: Correct the sequence file.

0035-138 No group specified following ">" at line *line number* of sequence file.

Explanation: In a group sequencing line there is a ">" without a following group name.

User Response: Correct the sequence file.

0035-139 Missing sequence definition at line *line number* sequence file.

Explanation: In a group sequencing line there is a ">" without a following group name.

User Response: Correct the sequence file.

0035-140 Incorrect format of stanza line *line number* in sequence file.

Explanation: The line is incorrect.

User Response: Review previous messages and correct the sequence file.

0035-141 No group specified following (at line *line number* of sequence file.

Explanation: A group name is expected after the parenthesis.

User Response: Correct the sequence file.

0035-142 No group specified following comma at line *line number* of sequence file.

Explanation: A group name is expected after the comma.

User Response: Correct the sequence file.

0035-143 The group, *group name*, precedes itself in the sequence line at line *line number* of the sequence file.

Explanation: A group name cannot precede itself on a sequence line.

User Response: Correct the sequence file.

0035-144 ListCreate() returned NULL, indicating error.

Explanation: Failure to create a linked list.

User Response: If a previous message indicates a problem allocating memory, try the command again. If the problem persists, contact your customer support organization.

0035-145 Problem with System Data Repository (SDR) routine. *SDR routine name* was unsuccessful with return code *SDR routine return code*.

Explanation: Problem with SDR routine.

User Response: Investigate the cause of the problem of the SDR.

0035-146 An object obtained from the System Data Repository (SDR) in the Node object class does not have a *node_number*. The object is ignored.

Explanation: Problem with data in Node object class in the System Data Repository (SDR).

User Response: Investigate the information in the Node object class in the SDR.

0035-147 Node *node number* does not have a *reliable_hostname* in the Node object class of the System Data Repository (SDR). The object is ignored.

Explanation: Problem with data in Node object class in the System Data Repository (SDR).

User Response: Investigate the information in the Node object class in the SDR.

0035-148 ListInsert() indicated error.

Explanation: Failure to insert into a linked list.

User Response: If a previous message indicates a problem allocating memory, try the command again. If the problem persists, contact your customer support organization.

0035-149 **Could not find any valid objects in the Node object class of the System Data Repository (SDR).**

Explanation: The `cstartup` command determines the valid processor nodes on the system via the SDR. No valid nodes were found.

User Response: Investigate the information in the Node object class in the SDR.

0035-150 **Problem with Frame Controller Interface (FCI) routine. FCI routine name was unsuccessful with return code FCI routine return code.**

Explanation: Problem with FCI routine.

User Response: Investigate the cause of the problem of the FCI.

0035-151 **Null or incorrect pointer passed to routine routine name.**

Explanation: This is a programming error.

User Response: Contact the IBM Support Center.

0035-152 **Cannot identify 1 or more targets in list.**

Explanation: The target list is either empty or contains node numbers or target ids which are not valid.

User Response: Issue the command again specifying known nodes.

0035-153 **Circularity has been detected in sequence file.**

Explanation: There is a circular dependency among some groups. A simple circular dependency would be $A > B > A$. In this example, A depends on B, and B depends on A.

User Response: Redefine the dependencies in the file such that none of them are circular.

0035-154 **The initial state of nodes does not allow the command to continue.**

Explanation: The nodes are not in the proper state according to the flags specified and the sequence information.

A simple example would be `nodeA > nodeB` and `nodeA` is already up. The command `cstartup -N nodeA nodeB` would fail because `nodeA` is up and you didn't tell `cstartup` to either ignore it or reset it.

User Response: Issue the command again specifying correct flags.

0035-155 **The -E and -k flag are mutually exclusive.**

Explanation: The `-E` and `-k` flag can not be used together.

User Response: Issue the command with one or the other flag, not both.

0035-156 **The -E and -z flag are mutually exclusive.**

Explanation: The `-E` and `-z` flag can not be used together.

User Response: Issue the command with one or the other flag, not both.

0035-157 **The -Z and -z flag are mutually exclusive.**

Explanation: The `-Z` and `-z` flag can not be used together.

User Response: Issue the command with one or the other flag, not both.

0035-158 **Node nodename, (node number), of predecessor group Pred. Group is initially down and is a non-target node.**

Explanation: The node belongs to a predecessor group and needs to be running before any trailing nodes can start up.

User Response: Either start or power on the node and issued the command, or issue the command using the `-X` flag.

0035-159 **Node nodename, (node number) is initially up before its leader(s).**

Explanation: The node is up and running prior to its predecessor running.

User Response: Either shutdown the node or issue the command with the `-Z` or `-z` flag.

0035-160 *program name* **unsuccessful -- preexisting sequence violation.**

Explanation: Sequence violations were detected. Review any previous messages for more information.

User Response: Correct sequence file and issue command.

0035-161 **Node nodename, (node_number) is running and the -Z flag was not specified. Command exiting.**

Explanation: The target node is already running and the `-Z` flag was not specified to reset the node.

User Response: Either power off the node or issue the command with the -Z flag.

0035-162 Problem with polling the state of node(s). Refer to previous message for any problems with FCI.

Explanation: cstartup was not able to accurately determine the state of some node or nodes. Refer to any above message about problems with the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0035-163 According to line *line number* of the sequence file, group *group 1* is a predecessor of group *group 2*.

Explanation: The relationship between the groups is conflicting according to the sequence file.

User Response: Correct the sequence file and issue the command again.

0035-164 A node is not responding in the allotted time. Exiting. System in not in a stable state.

Explanation: The -W flag was used and time specified to wait had been exceeded. The command continued as far as the sequence file would allow without started targets dependent on the failing node.

User Response: Determine why the node failed to boot and retry the command.

0035-165 Could not obtain node list of current partition.

Explanation: cstartup could not obtain the list of the nodes in the current system partition.

User Response: Investigate the cause of the failure. The cause may be described in prior messages.

0035-166 Target node(s) *target_node* is not in current partition.

Explanation: The command was issued without the -G option, and one or more target nodes specified are outside the current system partition. Unless -G is specified, the command allows startup only for the nodes in the current system partition.

0035-167 Target node *target_node* depends on node *outside_node* outside current partition.

Explanation: The sequence file indicates that the target node indicated in the message has a dependency on a node outside current partition.

User Response: Either remove the target node from

the target node list, or issue the command with the -G option to ignore system partition boundaries or the -X option to force action.

0035-168 csUtil csmarkTargets: NodeCheckAcls was unsuccessful for node *node number* with return code *return code*.

Explanation: The user is not authorized to run this command on this node.

User Response: Check the authorization of the user based on the security methods used for this node.

0035-169 NodeGetObjectValue: unable to query the FCI layer.

Explanation: The call to read hardmon data through the FCI layer was not successful.

User Response: The authorization of hardmon may not have succeeded. Examine hardmon permissions.

0035-170 The *flag 1* and *flag 2* flags are mutually exclusive.

Explanation: *Flag 1* and *Flag 2* cannot be used together.

User Response: Issue the command with only one of the flags.

Chapter 14. 0036 - cshutdown messages

0036-001 Cannot create *log file directory* directory.

Explanation: cshutdown could not create the named log file directory.

User Response: Investigate why directory could not be created.

0036-002 Cannot create/write to *log file*.

Explanation: cshutdown could not create/write the named log file.

User Response: Investigate why file could not be created/written.

0036-003 Cannot create an empty *sequence file*.

Explanation: cshutdown could not create empty sequence file.

User Response: Investigate why file could not be created.

0036-004 Cannot read the *sequence file* file.

Explanation: cshutdown could not read sequence file.

User Response: Investigate why file could not be read.

0036-005 Argument specified with **-W**, *argument*, is not valid.

Explanation: The argument specified with the **-W** flag is not valid.

User Response: Specify a numeric argument, or "AUTO" with the **-W** flag.

0036-006 Argument specified with **-W**, "*specified -W argument*", is negative.

Explanation: Argument specified with **-W** flag is negative.

User Response: Specify an argument with the **-W** flag that is 0 or positive.

0036-007 Only one of the options **-h**, **-k**, **-m**, **-r** are allowed.

Explanation: More than one of the **-h**, **-k**, **-m**, **-r** options were specified.

User Response: Specify at most one of these options.

0036-008 Time specified with **-T**, "*specified -T argument*", has a format that is not valid.

Explanation: The time specified with the **-T** option is in an incorrect format.

User Response: Specify the time as a nonnegative number of minutes, or as "hh:mm", where "hh" is an hour ranging from 0 to 23, and "mm" is the minutes of the hour ranging from 00 to 59.

0036-009 Hour specified with **-T**, *hour specified in -T argument*, is greater than 23.

Explanation: The time specified with the **-T** option has an invalid hour.

User Response: Specify the time as a nonnegative number of minutes, or as "hh:mm", where "hh" is an hour ranging from 0 to 23, and "mm" is the minutes of the hour ranging from 00 to 59.

0036-010 Minute specified with **-T**, *minute specified in -T argument*, is greater than 59.

Explanation: The time specified with the **-T** option has an invalid minute.

User Response: Specify the time as a nonnegative number of minutes, or as "hh:mm", where "hh" is an hour ranging from 0 to 23, and "mm" is the minutes of the hour ranging from 00 to 59.

0036-011 Option specified, "*invalid option*", is not valid.

Explanation: An invalid option was specified on the command line.

User Response: See the usage message for valid options.

0036-012 Option specified, "*option requiring argument*", requires an argument.

Explanation: The option specified requires a parameter.

User Response: See the usage message for the type of argument specified.

0036-013 The **-M** option was specified without the **-T** option.

Explanation: The **-M** option was specified without the **-T** option.

User Response: Specify the **-T** option when specifying the **-M** option.

0036-014 **The -C option was specified without the -r option.**

Explanation: The **-C** option was specified without the **-r** option.

User Response: Specify the **-r** option when specifying the **-C** option.

0036-015 **The "target_nodes" parameter was not specified.**

Explanation: The *target_nodes* was not specified on the command line.

User Response: Re-issue the **cshutdown** command with target nodes.

0036-016 **The specified file, "specified file", is not readable.**

Explanation: A file was specified in the *target_node1* parameter that is not readable.

User Response: Investigate why the file is unreadable.

0036-017 **Error reading target nodes from specified file "specified file".**

Explanation: An error occurred reading from a file specified in the *target_nodes* parameter.

User Response: Investigate why the file is unreadable.

0036-018 **The -N option was specified, and "specified node number" is not a valid node number.**

Explanation: A value specified in the *target_nodes* parameter is not a number.

User Response: When specifying **-N**, only give numbers for the *target_nodes* parameter.

0036-019 **The -N option was specified, and "specified node number range" is not a valid range of node numbers.**

Explanation: A node number range, A-B, was specified where A is not less than B.

User Response: When a node number range, A-B, is specified, A should be less than B.

0036-020 **"SDRGetObjects Node node_number" unsuccessful with a return value of Return value from SDRGetObjects.**

Explanation: The **SDRGetObjects** command failed to obtain information about the processor nodes on the SP system.

User Response: Investigate the cause of the **SDRGetObjects** failure using the return value provided.

0036-021 **Unable to obtain IP address of this processor.**

Explanation: Failed to obtain the IP address of this processor with the hostname command.

User Response: Investigate the cause of the failure of the hostname command.

0036-022 **Could not determine whether command was running on the control workstation.**

Explanation: Could not find **/usr/lpp/ssp/install/bin/node_number**, or it returned an error code.

User Response: Try running **/usr/lpp/ssp/install/bin/node_number** and investigate the error.

0036-023 **This command can only be run on a control workstation.**

Explanation: The command was not run on a control workstation.

User Response: Run the command on a control workstation.

0036-024 **Attempt to create temporary node sequencing file unsuccessful. The seqfile command returned error seqfile return value.**

Explanation: An attempt to generate a temporary node sequencing file with seqfile failed.

User Response: Investigate the causes of the failure.

0036-025 **Subsystem command subsystem command does not exist on node name.**

Explanation: A subsystem command does not exist on the specified node.

User Response: Install the command on the node.

0036-026 **Subsystem command** *subsystem command* **is not executable on node name.**

Explanation: A subsystem command is not executable on the specified node.

User Response: Use the **chmod** command to make the subsystem command executable.

0036-027 **Cannot specify -R in "cstartup_options".**

Explanation: -R was specified to be passed to the **cstartup** command. This is not allowed.

User Response: Specify **cshutdown** without the **cstartup -R** flag.

0036-028 **Cannot specify both the -X and -E options.**

Explanation: Incompatible options **-E** and **-X** were specified.

User Response: Specify only one of these options.

0036-029 **Node node is not in current partition.**

Explanation: The command was issued without the **-G** option and one or more target nodes specified are outside the current partition.

User Response: To shut down nodes in the current partition only, do not specify the **-G** option. To shut down nodes outside of the current partition, specify the **-G** option.

0036-030 **-N and -g are incompatible options.**

Explanation: The target cannot be both node numbers and node groups.

User Response: Enter the command again with node numbers or node groups, not both.

0036-031 **Node group node group name could not be resolved.**

Explanation: The command, **ngresolve**, was unsuccessful for the named node group.

User Response: Use the **nglist** command to see if the named node group exists in the current system partition. If you supplied the **-G** flag, the node group must exist as a system node group.

0036-032 **/usr/lpp/ssp/bin/vhostname -s returned NULL.**

Explanation: The **vhostname** command returned NULL instead of the hostname.

User Response: Enter **vhostname** and **hostname**

from the command line. Establish the proper names using SMIT.

0036-033 **/usr/lpp/ssp/kerberos/bin/ksrvtgt unsuccessful.**

Explanation: The attempt to get ticket granting tickets for hardmon with the **vhostname** command was unsuccessful.

User Response: Check the hardmon ACLs for this machine.

0036-034 **/usr/lpp/ssp/rcmd/bin/rcmdtgt unsuccessful.**

Explanation: The attempt to get rcmd ticket granting tickets was unsuccessful for this user.

User Response: Enter **rcmdtgt** from the command line. It must be run by root. Evaluate the realm and localhost values.

0036-035 **/usr/lpp/ssp/bin/SDRGetObjects -G Node reliable_hostname= hostname unsuccessful.**

Explanation: The attempt to get rcmd ticket granting ticket was unsuccessful for this user.

User Response: Enter **rcmdtgt** from the command line. It must be run by root. Evaluate the realm and local host values.

0036-100 **Unexpected error in attempt to allocate memory.**

Explanation: A call to **malloc()** was unsuccessful.

User Response: Enter the command again. If the problem persists, contact the IBM Support Center.

0036-101 **csControl option csControl option specified requires an argument.**

Explanation: Option to **csControl** was specified without an argument, but an argument is required.

User Response: **csControl** is meant to be invoked only from **cshutdown**. If **csControl** was invoked from **cshutdown**, perhaps an invalid change was made to **cshutdown**.

0036-102 **Invalid csControl option, csControl option specified specified.**

Explanation: An invalid option to **csControl** was specified.

User Response: **csControl** is meant to be invoked only from **cshutdown**. If **csControl** was invoked from **cshutdown**, perhaps an invalid change was made to **cshutdown**.

0036-103 **csControl invoked without required flag:** *csControl option not specified.*

Explanation: csControl was specified without a required flag.

User Response: csControl is meant to be invoked only from **csshutdown**. If csControl was invoked from **csshutdown**, perhaps an invalid change was made to **csshutdown**.

0036-104 **csControl invoked without target node list.**

Explanation: csControl was invoked without a list of target nodes.

User Response: csControl is meant to be invoked only from **csshutdown**. If csControl was invoked from **csshutdown**, perhaps an invalid change was made to **csshutdown**.

0036-105 **Could not obtain list of all cluster nodes.**

Explanation: **csshutdown** could not obtain the list of cluster nodes.

User Response: Investigate the cause of the failure. The cause may be described in prior messages.

0036-106 **Unable to create linked list.**

Explanation: An attempt to create a linked list structure was unsuccessful.

User Response: Try command again. If problem persists contact customer support.

0036-107 **Character specified in target node list is not allowed. The target node list may not contain the following characters: "#,>".**

Explanation: The target nodes specified on the command line, or in a file if the -R flag was specified, contained an illegal character.

User Response: Specify the target nodes without these characters: "#,>".

0036-108 **The target node list passed to csControl contains a tab character, which is not allowed.**

Explanation: The target node list passed to csControl contains a tab character.

User Response: csControl is meant to be invoked only from **csshutdown**. If csControl was invoked from **csshutdown**, perhaps an invalid change was made to **csshutdown**.

0036-109 **No nodes listed in target node list.**

Explanation: The target node list specified on the command line is empty.

User Response: Specify target nodes when invoking this command.

0036-110 **Unknown node, specified unknown node, listed in target node list.**

Explanation: The target node list specified an unknown node.

User Response: Issue the command again specifying known nodes.

0036-111 **Could not obtain power status for node node number.**

Explanation: Could not obtain power status for the indicated node from the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0036-112 **Could not determine whether node node number is running.**

Explanation: Could not obtain status for the indicated node from the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0036-113 **Node node_number appears to be running, yet it also appears to be powered off. The node may be in an intermediate state. Ensure the node is not hung. Make sure HostResponds is reporting the correct state. If node is hung, power off the node either using SP Perspectives or physically power it off at the frame.**

Explanation: The node appears to be both running and powered off. Apparently, the node is in an intermediate state. The **csshutdown** command will not run while nodes are in this state.

User Response: Try the command again in a few minutes.

0036-114 **Unable to create the required number of child processes to warn users to log off targeted nodes. The fork() system call was unsuccessful with errno errno value after fork() system call. Try the command again when there is less activity on the control workstation.**

Explanation: For each node to be shut down, a process is created to warn users to log off the node. The required number of processes could not be created.

User Response: Try the command again when there is less activity on the control workstation, or try the command again specifying fewer target nodes.

0036-115 While waiting for the completion of child processes created to warn users to log off targeted nodes, an unexpected error occurred. The wait() system call was unsuccessful with errno *errno value after wait() system call*.

Explanation: For each node to be shut down, a process is created to warn users to log off the node. While waiting for these processes to terminate, an unexpected failure occurred.

User Response: This condition probably indicates a programming error. Please notify your customer support organization.

0036-116 The following groups in *file name* have circular sequencing relationships: *list of groups*

Explanation: There is a circular dependency among the groups listed. A simple circular dependency would be A > B > A. In this example, A depends on B, and B depends on A.

User Response: Redefine the dependencies in the file such that none of them are circular.

0036-117 Some nodes are gated by others: Target nodes (*nodes*) are gated by nontarget nodes (*nodes*).

Explanation: Some target nodes cannot be shut down, because other nodes are not shut down.

User Response: Specify more nodes to be shut down, or specify the -X flag.

0036-118 Unable to create the required number of child processes to terminate non-root processes on targeted nodes. The fork() system call was unsuccessful with errno *errno value after fork() system call*. Try the command again when there is less activity on the control workstation.

Explanation: For each node to be shut down, a process is created to terminate non-root processes. The required number of processes could not be created.

User Response: Try the command again when there is less activity on the control workstation, or try the command again specifying fewer target nodes.

0036-119 While waiting for the completion of child processes created to terminate non-root processes on targeted nodes, an unexpected error occurred. The wait() system call was unsuccessful with errno *errno value after wait() system call*.

Explanation: For each node to be shut down, a process is created to terminate non-root processes. While waiting for these processes to terminate, an unexpected failure occurred.

User Response: This condition probably indicates a programming error. Please notify your customer support organization.

0036-120 Could not switch power off to node *node number*.

Explanation: Could not power off the indicated node with the Frame Controller Interface (FCI).

User Response: Check the state of the FCI.

0036-121 Node states have not stabilized. Nodes will not be restarted.

Explanation: The power and running states of the nodes just halted have not reached the expected values.

User Response: Wait for node states to stabilize, and retry command.

0036-122 Character in node name *node name* is not valid. Nodes are not permitted to contain **;**, **>**, **#**, **commas**, **tabs**, or **blanks** in their names.

Explanation: The name of the specified node contains a character that **cshUTDOWN** cannot deal with correctly.

0036-123 Node structure for node *node name* disappeared from linked list.

Explanation: A structure describing a node has disappeared from the list.

User Response: This condition indicates a programming error. Please contact your customer support organization.

0036-124 Was unable to add *group name* group to a linked list.

Explanation: An attempt to add information about a group to a linked list failed. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-125 Was unable create a linked list for group *group name*.

Explanation: An attempt to create a linked list for the group failed. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-126 An already defined node *node name*, has lost its group structure pointer.

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0036-127 An already defined node *node name*, has lost its group name pointer.

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0036-128 In line *line number* of sequence file *file name*, node *node name* is assigned to group *group name*, but it has already been assigned to group *group*.

Explanation: The specified node is assigned to two groups.

User Response: Change group definitions such that each node is in at most one group.

0036-129 Was unable to add *node name* node to a linked list.

Explanation: An attempt to add information about a node to a linked list failed. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-130 Could not locate group *group name* in group list.

Explanation: An attempt to find information about a group in a linked list failed. This is a programming error.

User Response: Contact your customer support organization.

0036-131 Trying to create an unknown node type.

Explanation: This is a programming error.

User Response: Contact your customer support organization.

0036-132 Unable to open *file name*, The open() system call was unsuccessful with errno *errno value* after open() system call.

Explanation: Attempt to open file failed.

User Response: Investigate cause of failure. The meaning of the errno value can be determined by examining `/usr/include/sys/errno.h`.

0036-133 Premature end of line encountered in sequence file *file name* at line *line number*.

Explanation: An attempt to add information about a group to a linked list failed. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-134 The name *reserved name* is a reserved internal name and may not be used as a group name. It is used in line *line number* of *file name*.

Explanation: The `cshUTDOWN` command uses an internal group to keep track of nodes that are not explicitly assigned a group. The name of this internal group is reserved. A group defined in a sequence file uses this reserved name.

User Response: Change the name of the group in the sequence file.

0036-135 No node specified following : at line *line number* of sequence file *file name*

Explanation: A group definition line in a sequence file does not provide a list of members for the group.

User Response: Correct the group definition line.

0036-136 No node specified following comma at line *line number* of sequence file *file name*.

Explanation: A group definition line in a sequence file ends with a comma.

User Response: Correct the group definition line.

0036-137 Blank or tab found in node name at line *line number* of sequence file *file name*.

Explanation: A blank or tab was found in a node name in a sequence file. Node names must not contain blanks or tabs.

User Response: Correct the node name in the sequence file.

0036-138 Group definition line was damaged for line *line number* of sequence file *file name*.

Explanation: An attempt to add information about a node to a linked list failed. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-139 Comma found in group name at line *line number* of sequence file *file name*.

Explanation: A comma was found in a group name in a sequence file. Node names must not contain commas.

User Response: Correct the group name in the sequence file.

0036-140 Blank or tab found in group name at line *line number* of sequence file *file name*.

Explanation: A blank or tab was found in a group name in a sequence file. Group names must not contain blanks or tabs.

User Response: Correct the group name in the sequence file.

0036-141 More than one ":" in line *line number* of sequence file *file name*.

Explanation: A group definition line must only contain one ":", which separates the group name from the group members.

User Response: Correct the sequence file.

0036-142 Sequencing is not allowed on definition lines. A ">" was found in line *line number* of sequence *file name*.

Explanation: A group definition line must not contain a ">", which is used on sequencing lines.

User Response: Correct the sequence file.

0036-143 Parenthesis not allowed in definition lines. Parenthesis found in line *line number* of sequence file *file name*.

Explanation: A group definition line must not contain a parenthesis.

User Response: Correct the sequence file.

0036-144 A node, *node number*, that is not allowed appears at line *line number* of sequence file *file name*.

Explanation: A nonexistent node is in a line of the sequence file.

User Response: Correct the sequence file.

0036-145 Definition is not allowed in sequencing lines. A ":" was found in line *line number* of sequence file *file name*.

Explanation: A group sequencing line must not contain a ":", which is used on group definition lines.

User Response: Correct the sequence file.

0036-146 A sequencing line needs a least 1 sequence in the line. Invalid sequencing line at line *line number* of sequence *file name*.

Explanation: A group sequencing line must at least define the relationship between 2 groups.

User Response: Correct the sequence file.

0036-147 No group specified following ">" at line *line number* of sequence file *file name*.

Explanation: In a group sequencing line there is a ">" without a following group name.

User Response: Correct the sequence file.

0036-148 Missing sequence definition at line *line number* of sequence file *file name*.

Explanation: In a group sequencing line there is a ">" without a following group name.

User Response: Correct the sequence file.

0036-149 Incorrect format of stanza line *line number* in sequence file *file name*.

Explanation: The line is incorrect.

User Response: Correct the sequence file.

0036-150 No group specified following (at line *line number* of sequence file *file name*.

Explanation: A group name is expected after the (.

User Response: Correct the sequence file.

0036-151 No group specified following comma at line *line number* of sequence file *file name*.

Explanation: A group name is expected after the comma.

User Response: Correct the sequence file.

0036-152 **The group *group name* precedes itself in the sequence line at line *line number* of the sequence file *file name*.**

Explanation: A group name cannot precede itself on a sequence line.

User Response: Correct the sequence file.

0036-153 **According to line *line number* of the sequence file *file name*, *group name 1* is to be shut down before *group name 2*. However, that relationship is reversed in a previous line.**

Explanation: The relationship between two groups is defined one way in one line of the sequence file, and another way on another

User Response: Correct the sequence file.

0036-154 **Unexpectedly ran out of child processes for which to wait.**

Explanation: csControl thought it had more child processes for which it had to await termination. However, no more processes exist. This is a programming problem.

User Response: Please contact your customer support center.

0036-155 **While waiting for the completion of child processes an unexpected error occurred. The wait() system call failed with errno *error value* after wait() system call.**

Explanation: For each subsystem to be informed of node shut down, a process is created to call the subsystem. Also, for each node to be shut down, a process is created to halt the node. While waiting for these processes to terminate, an unexpected failure occurred.

User Response: This condition probably indicates a programming error. Please notify your customer support organization.

0036-156 **A child process completed, but csControl has lost information pertaining to the child.**

Explanation: For each subsystem to be informed of node shut down, a process is created to call the subsystem. Also, for each node to be shut down, a process is created to halt the node. One of these processes terminated. However, the csControl program has lost information it should have saved about the process.

User Response: This condition indicates a programming error. Please notify your customer support organization.

0036-157 **ListCreate() returned NULL, indicating error.**

Explanation: Failure to create a linked list.

User Response: If a previous message indicates a problem allocating memory, try the command again. If the problem persists, contact your customer support organization.

0036-158 **Problem with System Data Repository (SDR) routine *SDR routine name*. Was unsuccessful with return code *SDR routine return code*.**

Explanation: Failure with SDR routine.

User Response: Investigate the cause of the failure of the SDR.

0036-159 **An object obtained from the System Data Repository (SDR) in the Node object class does not have a *node_number*. The object is ignored.**

Explanation: Problem with data in Node object class in the System Data Repository (SDR).

User Response: Investigate the information in the Node object class in the SDR.

0036-160 **Node *node number* does not have a *reliable_hostname* in the Node object class of the System Data Repository (SDR). The object is ignored.**

Explanation: Problem with data in Node object class in the System Data Repository (SDR).

User Response: Investigate the information in the Node object class in the SDR.

0036-161 **ListInsert() indicated error.**

Explanation: Failure to insert into a linked list.

User Response: If a previous message indicates a problem allocating memory, try the command again. If the problem persists, contact your customer support organization.

0036-162 **Could not find any valid objects in the Node object class of the System Data Repository (SDR).**

Explanation: The **csshutdown** command determines the valid processor nodes on the system via the SDR. No valid nodes were found.

User Response: Investigate the information in the Node object class in the SDR.

0036-163 Problem with Frame Controller Interface (FCI) routine. FCI routine name was unsuccessful with return code FCI routine return code.

Explanation: Failure with FCI routine.

User Response: Investigate the cause of the failure of the FCI.

0036-164 Null pointer passed to routine routine name.

Explanation: This is a programming error.

User Response: Please contact your customer support organization.

0036-165 A child process returned unexpected status. The process returned errno value returned by child process.

Explanation: For each subsystem to be informed of node shut down, a process is created to call the subsystem. Also, for each node to be shut down, a process is created to halt the node. A child returned an unexpected status.

User Response: This condition probably indicates a programming error. Please notify your customer support organization.

0036-166 Processes created to satisfy the cshutdown request have been unsuccessful. Try the request again later.

Explanation: For each subsystem to be informed of node shut down, a process is created to call the subsystem. Also, for each node to be shut down, a process is created to halt the node. Child processes have not succeeded. This may be due to a lack of system resources or failure to make network connections.

User Response: Investigate the state of the network and the control workstation. You may retry the request.

0036-167 Abending due to error of subsystem subsystem name. Error code was error code.

Explanation: The specified subsystem was not successful, and the -Y flag was not specified. The **cshutdown** request is being abended.

User Response: Investigate the cause of the subsystem failure.

0036-168 Abending because connection attempts to the Frame Controller Interface have been unsuccessful.

Explanation: One or more processes could not connect to the Frame Controller Interface (FCI).

User Response: Investigate the cause of the FCI failure.

0036-169 Node appears to have stopped running unexpectedly.

Explanation: The Frame Controller Interface (FCI) indicates the node *node number* has stopped running before the node was halted by the **cshutdown** command. The **cshutdown** command will terminate.

User Response: Investigate the state of the node.

0036-170 The sigprocmask () routine returned with errno error number value returned by sigprocmask() routine.

Explanation:

User Response:

0036-171 The sigaction () routine returned with errno error number value returned by sigaction () routine while attempting to set action for signal signal.

Explanation:

User Response:

0036-172 Target node target node number is not in current partition.

Explanation: —G option was not specified and the target node indicated in the message is not in the current partition. Without —G specified, only nodes in the current partition can be shutdown.

User Response: Either remove the node from the target node list or issue the command with the —G option if the node outside the current partition needs to be shutdown.

0036-173 Could not obtain node list of current partition.

Explanation: **cshutdown** could not obtain the list of the nodes in the current partition.

User Response: Investigate the cause of the problem. The cause may be described in prior messages.

0036-174 Target node *target node number* depends on node *node outside partition* outside current partition.

Explanation: The sequence file indicates that the target node indicated in the message has a dependency on a node outside the current partition.

User Response: Either remove the target node from the target node list, or issue the command with the -G option or -X option to force the action.

0036-175 Was unable to add target node *target node number* to a linked list.

Explanation: An attempt to add information about a target node to a linked list was unsuccessful. This is either a programming error, or a malloc() error.

User Response: If this is a malloc() error, try the command again.

0036-176 csSecUtil: Unable to open an FCI session.

Explanation: Unable to open a session with hardmon through the FCI interface.

User Response: Check the hardmon ACLs for permission.

0036-177 Error from spsec_get_ts_authent - return code was *return code*.

Explanation: Unable to get the trusted services method. The choices are DCE and COMPAT.

User Response: Check the error number.

0036-178 csSecUtil: Error from spsec_using_auth_method - return code was *return code*.

Explanation: This call determines whether the required authentication method is in use.

User Response: Determine why the method is not in use.

0036-179 csSecUtil: spsec_start:

Explanation: This is the text from the auth_method failure.

User Response: Check the arguments or the token.

0036-180 csSecUtil: Error from spsec_login_as_service - return code was *return code*.

Explanation: Initializing the ssp/spbgroot service was unsuccessful.

User Response: Check that the service is configured.

0036-181 csSecUtil:spsec_get_my_identity either returned no identity or non-zero return code - return code was *return code*.

Explanation: Unable to get the principal name or UUID of the logged-in identity of the calling program.

User Response: Check the caller's Principal name.

0036-182 csSecUtil:Error from spsec_renew_identity - return code was *return code*.

Explanation: This call renews the expiration timeout of the login context as a preventive measure.

User Response: Look for DCE error or improper login or network.

0036-183 csSecUtil:Error get_kerb_ticket *ticket* return code was *return code*.

Explanation: An attempt to get a kerberos ticket granting ticket was unsuccessful.

User Response: Check for Kerberos access.

0036-184 csControl markIt: nodeCheckAcls failed for node *node name* with return code *return code*.

Explanation: The user does not have the hardmon ACLs to execute this command for this node.

User Response: Check the hardmon ACL list for this user.

0036-185 csControl: User is not root nor in shutdown group nor cshut group.

Explanation: The user must be root or a member of the AIX shutdown or cshut group.

User Response: The user can be added to the AIX shutdown or cshut group, or become root to run this command.

0036-186 csControl: User did not have permission to work with a node, markTargets returned.

Explanation: The command was unable to establish the user's credentials.

User Response: Check the users group and ACLs.

0036-187 csControl: setuid failed after markTargets and returned.

Explanation: The command was unable to set the uid to zero following the credential check.

User Response: Check the extended permissions on the csControl or csStart file.

0036-188 **The *flag 1* and *flag 2* flags are mutually exclusive.**

Explanation: *Flag 1* and *Flag 2* cannot be used together.

User Response: Issue the command with only one of the flags.

Chapter 15. 0037 - SYSMAN_test messages

0037-001 **Unable to obtain SDR information required to run tests.**

Explanation: Essential information, including the node number and system configuration data could not be obtained from the System Data Repository. A preceding error message further identifies the error.

User Response: Perform the recommended installation steps, including the SDR verification test, before running this test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-002 **File *file_name* does not exist.**

Explanation: This file, which should exist following installation, could not be found.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-003 **Directory *directory_name* does not exist.**

Explanation: This directory, which should exist following installation, could not be found.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-004 **Directory *directory_name* was not exported.**

Explanation: No entry was found for the directory in */etc/exports*.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-005 **Required *entry_identifier* entry missing from *file_name*.**

Explanation: Following installation and configuration, a required entry in this file with the identifier shown could not be found.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-006 **Unwanted *entry_identifier* entry found in *file_name*.**

Explanation: Following installation and configuration, an inappropriate entry was found in this file with the identifier shown.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-008 ***AIX_printing_command* is not linked to *pmswitch*, but SP print option is *print_option*.**

Explanation: When the SP print option is OPEN or SECURE, the AIX print commands should be linked to *pmswitch*.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-009 ***AIX_printing_command* is not linked to *pmswitch*, but SP print option is *print_option*.**

Explanation: When the SP print option is not OPEN or SECURE, the AIX print commands should not be linked to *pmswitch*.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local

site procedures for reporting hardware and software problems.

0037-010 SP print option is SECURE, but pmbec is not setuid.

Explanation: When the SP print option is SECURE, the **pmbec** command must execute with setuid permission.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-011 SP print option is OPEN, but pmbec is setuid.

Explanation: When the SP print option is OPEN, the **pmbec** command does not require setuid permission.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-012 SP print id *print_id* in pmbe does not match user-supplied value: *print_id*.

Explanation: A print id was specified in the site environment data, but the **pmbe** program was not updated to use it.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-013 Error occurred obtaining CW ip addresses SDR returned *return_value*.

Explanation: An error was reported by the **SDRGetObjects** command.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-014 Control workstation IP addresses in SDR do not match netstat output.

Explanation: Network addresses recorded for the control workstation in the SDR differ from the network interfaces actually configured.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-015 Server .klogin file does not have an entry for client *host_name*.

Explanation: A server node's **.klogin** file must contain an entry for each client node that it serves, but this one does not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-016 Control workstation .klogin file does not have an entry for node *host_name*.

Explanation: The control workstation's **.klogin** file must contain an entry for each of the other nodes, but does not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-017 The nfs group was not activated.

Explanation: The nfs subsystem is not active on this node, but it is required on server nodes.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-018 **This node is a /usr client, but /usr is mounted locally.**

Explanation: The node has not been properly set up as a /usr client.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the node if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-019 **/etc/ntp.conf does not contain a server_or_peer entry for ntp server at ip_address.**

Explanation: The /etc/ntp.conf file does not contain an expected entry for the ntp option that was selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-020 **/etc/ntp.conf does not contain a server_or_peer entry for the control workstation at ip_address.**

Explanation: The /etc/ntp.conf file does not contain an expected entry for the ntp option that was selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-021 **/etc/ntp.conf does not contain a server_or_peer entry for boot/install server at ip_address.**

Explanation: The /etc/ntp.conf file does not contain an expected entry for the ntp option that was selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-022 **/etc/ntp.conf does not contain a server entry for 127.127.1.10.**

Explanation: The /etc/ntp.conf file does not contain an expected entry for the ntp option that was selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-023 **/etc/rc.ntp on control workstation contains ntpdate with consensus option.**

Explanation: The /etc/rc.ntp file should not run ntpdate when the consensus ntp option was selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-024 **SMIT stanzas for user management are missing from the ODM.**

Explanation: When the user management option is selected, the SMIT stanzas for that facility should be found in the ODM, but were not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-025 **The link from /bin/passwd to sp_passwd is missing.**

Explanation: When the user management option is selected and NIS is not used, /etc/passwd on the nodes, and on the control workstation if it does not have the master file, should be replaced by a link to the sp_passwd file. This was not found to be true.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-026 **The SMIT stanzas for SP user management should not be installed in the ODM.**

Explanation: When the user management option is not selected, the SMIT stanzas for that facility should not be found in the ODM, but were.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-027 ***/etc/passwd* should not be linked to *sp_passwd*.**

Explanation: When the user management option is not selected and NIS is not used, */etc/passwd* should not be linked to the *sp_passwd* file, but the link was found to exist.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-028 ***/u* should not be linked when using the automounter.**

Explanation: Configuration of the optional automounter support requires that any existing link from */u* to another directory be removed, but it was not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-029 **The *entry_identifier* entry should not be in *file_name*.**

Explanation: An entry for an optional facility was found in the file, when the associated site environment option was not selected.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-030 **The *daemon_name* daemon is running, but the *optional_facility* option was not configured.**

Explanation: An optional facility was not selected, but a daemon associated with it is running

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-031 **The *daemon_name* daemon is not running, but the *optional_facility* option was configured.**

Explanation: An optional facility was selected, but a daemon required by it is not running.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-032 **The link is missing to the list file for file collection *preinstalled_file_collection_name*.**

Explanation: The list file for each file collection should be links to from */var/sysman/sup/lists*. One of these links does not exist.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-033 **The *supman* user id is not defined in the password file.**

Explanation: The file collections option was configured, but the *supman* user is not defined in */etc/passwd*, as required.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-034 **Unable to confirm installation of file collection** *predefined file collection name.*

Explanation: The supper where command did not return output indicating that the predefined file collection had been installed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-035 **Unable to get *facility_name* information using the *command_issued* command.**

Explanation: A simple query-type command was attempted to obtain information from the optionally installed facility, but it returned no data.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-036 **This node has attribute *has_usr_clients*, but no clients were found.**

Explanation: This node has the SDR attribute, **has_usr_clients**, but no nodes were found to have a **usr_client_ip** attribute that matches one of my network interfaces.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-037 ***directory* is not exported with a *root_or_mount* access list.**

Explanation: The **/etc/exports** file for this node does not have an entry for the directory with the access list shown, which is required.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-038 ***node_name* is not in the *root_or_mount* access list for *directory exports*.**

Explanation: The **/etc/exports** file has the access list for the directory export, but it does not include the required node name.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-040 **The */etc/hosts* file does not contain an entry for server *server_host_name*.**

Explanation: The **/etc/hosts** file on each node must contain entries for the node's boot/install server, but it does not on this node.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-041 **The *.klogin* file does not have an entry for control workstation *server_host_name*.**

Explanation: Each node must have **root** entries in its **.rhost** file for the control workstation's IP addresses, but this one does not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-042 **Accounting directories found not owned by adm.**

Explanation: The accounting directories under **/var/adm** must be owned by user and group **adm**, but one or more are not.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-043 **Accounting jobcharge file does not match configured value.**

Explanation: The accounting jobcharge file contains a value that does not with that found in the SDR entry for this node.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-044 **Required install image *install_image_name* is missing from */usr/sys/inst.images/ssp*.**

Explanation: A node whose boot response value is install requires this image, but it was not found in the directory for install images on this node (the control workstation or the boot/install server).

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-045 **The name of install image *install_image_name* is missing from file: *pathname_of_choices* file.**

Explanation: A node whose boot response value is install requires this image, but its name was not found in the netinst user's choices file on this node (the control workstation or the boot/install server).

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-046 **Could not locate password file entry for netinst user.**

Explanation: The netinst user, which is required for network installation, is missing from the password file.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-047 **Root entry not found in .klogin file for host *host_name*.**

Explanation: This message is obsolete. No error was found.

User Response: None.

0037-048 **File *file_name* requires setuid permission but does not have it.**

Explanation: Certain files must be setuid to **root** in order to function properly.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. To work around, use the **chmod** command to set the user setuid bit. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-049 **Install Image *install image name* is missing or is a zero length file.**

Explanation: The install image for the client is missing or is a zero length file.

User Response: Ensure the file exists and is a mksysb image. Review any messages from the installation and take appropriate action.

0037-050 **Missing required lp, perfagent, in *lppsource* directory, *lppsource* directory *name*, for node *node number*.**

Explanation: Perfagent is a required LP for clients at PSSP 2.1 or greater. It needs to be in the lppsource directory on the control workstation for that client.

User Response: Ensure that the LP is in the named lppsource directory.

0037-051 **Grep did not succeed because exportfx produced a line that was too long.**

Explanation: Failure of the test. This message does not indicate a system problem.

User Response: Look for **/usr** in the results from **exportfx** and check for root access.

0037-052 **K4 was set in *auth_root_rcmd* but *.klogin* was not found.**

Explanation: Failure of the test. This message does not indicate a system failure.

User Response: If *auth_root_rcmd* is set to K4, make sure / has *.klogin* file.

0037-053 **Network adapter *adapter-name* incorrectly configured. Verify that adapter is configured with a valid IPv4 address.**

Explanation: Failure of the test. The address of the specified adapter is not in valid IPv4 format.

User Response: Correct the adapter address and rerun the test.

0037-101 **CMI stanzas contain an unknown object type: *ODM_object_type*.**

Explanation: The CMI stanzas contain an object whose type is not valid for SMIT objects

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-102 **CMI objects are missing from the ODM database.**

Explanation: One or more CMI stanzas are missing from the ODM database.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-201 **Directory *directory_name* does not exist.**

Explanation: This directory, which should exist following installation, could not be found.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-202 **SDRDeleteObjects returned *return_value*, expected return code 0 or 26.**

Explanation: The **SDRDeleteObjects -c** command failed

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if

necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-203 **SDRCreateClass returned *return_value*, expected return code 0.**

Explanation: The **SDRCreateClass** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-204 **SDRCreateObjects returned *return_value*, expected return code 0.**

Explanation: The **SDRCreateObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-205 **SDRGetObjects returned *return_value*, expected return code 0.**

Explanation: The **SDRGetObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-206 **SDRChangeAttrValues returned *return_value*, expected return code 0.**

Explanation: The **SDRChangeAttrValues** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-207 **SDRChangeAttrValues** returned *return_value*, **expected return code 0**.

Explanation: The **SDRChangeAttrValues** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-208 **SDRGetObjects** returned *return_value*, **expected return code 0**.

Explanation: The **SDRGetObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-209 **SDRDeleteObjects** returned *return_value*, **expected return code 0**.

Explanation: The **SDRDeleteObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-210 **SDRDeleteObjects -c** returned *return_value*, **expected return code 0**.

Explanation: The **SDRDeleteObjects -c** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-212 **SDRCreateAttrs -c** returned *return_value*, **expected return code 0**.

Explanation: The **SDRCreateAttrs -c** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action,

reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-213 **Verification did not succeed with *number_of_errors* errors. See *log_file_name*.**

Explanation: The SDR_ verification test did not succeed.

User Response: Check the error messages in the log file, taking the action recommended for them.

0037-220 **To successfully complete this test, it must be run as root.**

Explanation: The root user is assumed to run this test.

User Response: Logon as root before running this test.

0037-221 **Directory *name* does not exist.**

Explanation: This directory, which should exist following installation, could not be found.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test.

0037-222 **No hardmon daemon running.**

Explanation: The hardware monitor daemon is not running.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-223 **No sdrd daemon running.**

Explanation: System data repository daemon must be running

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-224 /spdata/sys1/spmon/hmacls file not found.

Explanation: hardmon requires /etc/hmacls.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-225 This host name not found in hmacls file.

Explanation: The host must be found in hmacls file.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-226 spPortDaemon is not hardmon in SP_ports.

Explanation: SDRGetObjects SP_port did not include hardmon as daemon.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-227 This host name not found in SP_ports.

Explanation: This host must be in SP_ports.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-231 spmon -q return code *return_value*, expected 0.

Explanation: The spmon command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-232 export failed *return_value*.

Explanation: The export command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-233 DEdelete failed *return_value*.

Explanation: The DEdelete command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-234 unset failed *return_value*.

Explanation: The unset command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-235 Verification did not succeed with *number_of_errors* errors. See *log_file_name*.

Explanation: The spmon_itest verification test did not succeed.

User Response: Check the error messages in the log file, taking the action recommended for them.

0037-236 The spmon_itest command did not succeed, the value set for the authentication methods is incorrect.

Explanation: Check the current authentication method using the lsauthts command.

User Response: Set the appropriate authentication method using the chauthts compat command.

0037-241 Directory *directory_name* does not exist.

Explanation: This directory, which should exist following installation, could not be found.

User Response: Review node installation log for error

messages. Take recommended corrective action, reinstall the Parallel System Support Programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-242 No hardmon daemon running.

Explanation: The hardmon is not running, this is necessary for spmon.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-243 No sdrd daemon running.

Explanation: The sdrd is not running, this is necessary for spmon.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-244 No Node Objects created.

Explanation: The **SDRGetObjects** command failed. No Node Objects created.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-245 Check hardware, frame *number* DCD=*value*.

Explanation: The **SDRGetObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-246 Check hardware, frame *number* CTS=*value*.

Explanation: The **SDRGetObjects** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and

rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-247 Check hardware, frame *number* controllerResponds=*value*.

Explanation: The **unset** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-248 Check /spdata/sys1/spmon/hmacls for frame *number*.

Explanation: The **unset** command failed.

User Response: Review node installation log for error messages. Take recommended corrective action, reinstall the system support programs if necessary, and rerun test. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

0037-249 Verification did not succeed, *number_of* errors. See *log_file_name*.

Explanation: The **spmon_ctest** verification test did not succeed.

User Response: Check the error messages in the log file and take the action recommended for them.

0037-250 hr daemon not running.

Explanation: The hr hostResponds daemon is required for **spmon**.

User Response: Check the error messages in the log file and take the action recommended for them.

0037-251 ccst daemon not running.

Explanation: The ccst heartbeat daemon is required for **spmon**.

User Response: Check the error messages in the log file and take the action recommended for them.

0037-252 The spmon command did not succeed, possibly kerberos ticket expired.

Explanation: Check kerberos authorization and authentication.

User Response: Check the error messages in the log file and take the action recommended for them.

0037-253 The `spmon_ctest` command did not succeed, the value set for the authentication method is incorrect.

Explanation: Check the current authentication method using the `Isauthts` command.

User Response: Set the appropriate authentication method using the `chauthts dce compat` command.

0037-261 The `hmreinit` command did not succeed, the value set for the authentication was incorrect.

Explanation: Check the current authentication method using the `Isauthts` command.

User Response: Set the appropriate authentication method using the `chauthts dce compat` command.

0037-601 Directory `/var/adm/SPlogs` does not exist.

Explanation: The `/var/adm/SPlogs` directory does NOT exist.

User Response: Create the `/var/adm/SPlogs` directory.

0037-602 Communication with *Node's Switch Host Name* through Switch failed.

Explanation: The control workstation cannot ping the node through the switch.

User Response: Check the switch connections. If the problem persists, record the above information and contact the IBM Support Center.

0037-603 Communication with *Node's LAN Host Name* through LAN failed.

Explanation: The control workstation cannot ping the node through LAN.

User Response: Check the LAN setup and connections.

0037-604 LP `/usr/lpp/ssp/css` is not installed. Cannot run CSS IVT test.

Explanation: The control workstation does not contain CSS LP. This means that all nodes do not contain CSS LP.

User Response: Install CSS LP to all nodes.

0037-605 TBx adapter not installed in *Node's LAN Host Name*. Skip this node.

Explanation: The target node does not contain special file entry `/dev/css0`. This means that the TBx adapter is not installed or configured on the node.

User Response: Install the TBx adapter and configure it on the target node

0037-606 `CSS_test [-q] [-l logfile]`.

Explanation: If you run `CSS_test` from the command line and enter the wrong flag, it prints the correct command format.

User Response: Enter the command with the correct command format.

0037-607 Please login as root to execute this program.

Explanation: Root authority is needed to execute this program.

User Response: Login as `root` and execute the program.

0037-608 Cannot find the system partition name in the SDR. Please use `SDRAddSyspar` or `SDRRemoveSyspar` to setup the system partition name.

Explanation: An error was returned from `SDRGetObjects -x Syspar`. The SDR did not set up properly.

User Response: Use the `SDRAddSyspar` or `SDRRemoveSyspar` command to set up the system partition name.

0037-609 Please run `kinit` to get authentication ticket and execute again.

Explanation: A Kerberos ticket is needed to run this program.

User Response: Use `k4init` to obtain the ticket and then run the program.

0037-610 Primary node *node* failed Ethernet IP test. Cannot perform the Switch IP test of partition *partition name*.

Explanation: Cannot communicate with the primary node.

User Response: Examine the node SDR information, network routing information and hardware connections for the source of the failure.

0037-611 Primary node *node* failed Switch IP test. Cannot continue the Switch IP test of partition *partition name*.

Explanation: The primary node cannot communicate with itself through the switch.

User Response: Examine the node SDR information and hardware connections for the source of the failure.

Chapter 16. 0038 - Automounter error messages

0038-001 Cannot set up Amd directory `/etc/amd`. Exiting...

Explanation: `amd_config` will set up Amd by copying Amd files from `/usr/lpp/ssp/amd` into `/etc/amd`.

User Response: Make sure that the `/etc/amd` directory could be created. Also verify that the Amd files in `/usr/lpp/ssp/amd` exist and are readable so that they can be copied into `/etc/amd`.

0038-002 Cannot set up `/etc/amd/amd-maps` directory. Exiting...

Explanation: `amd_config` will create the `/etc/amd/amd-maps` directory which is used for keeping the Amd maps. It will also copy the default `amd.u` map that is shipped with the Parallel System Support Programs into the `amd-maps` directory.

User Response: Make sure that the `amd-maps` directory could be created. Check file permissions on `/etc/amd` and `/etc/amd/amd-maps` to ensure that the default `amd.u` map could be copied into it.

0038-004 Cannot set up `/etc/auto/maps` directory. Exiting...

Explanation: The default automounter configuration will create the `/etc/auto/maps` directory which is used for keeping the Automount maps. It will also copy the default `auto.u` map that is shipped with the Parallel System Support Programs into the `maps` directory.

User Response: Make sure that the `maps` directory could be created. Check file permissions on `/etc/auto/maps` to ensure that the default `auto.u` map could be copied into it.

0038-005 Cannot set up `/etc/auto.master` file. Exiting...

Explanation: The default automounter configuration will create the default `/etc/auto.master` file which is used for specifying which directories the automounter is to control and their associated map files.

User Response: Make sure that the `/etc/auto.master` file can be created. Check file permissions on `/etc` to ensure that the default `auto.master` file can be created.

0038-006 Error found while creating `/etc/auto/maps/auto.u` map file. Exiting...

Explanation: Errors were found while generating the `/etc/auto/maps/auto.u` automount map file from a previously existing Amd `/etc/amd/amd-maps/amd.u` map file.

User Response: Consult the error message list to determine the cause of the errors. The `/etc/auto/maps/auto.u` map file may have been created with some correct automounter entries. Verify that the information in the automount map file is complete and accurate.

You may need to manually convert some of the Amd entries before attempting to configure and start the automounter.

0038-007 Error found while executing `user_exit` customization script

Explanation: The `user_exit` automounter customization script was executed and returned with a nonzero return code.

User Response: Make sure that `user_exit` is executing correctly and is returning the desired results.

0038-008 Cannot execute `file name`. The file does not exist or is not executable.

Explanation: An attempt to execute the `file name` file was made, but the file does not exist or is not executable. This may be caused by an unresolved configuration problem.

User Response: Make sure that the automounter configuration command completed successfully. If you have replaced the default configuration with a customization script but have not replaced the other automounter functions with customization scripts, make sure that all required PSSP automounter configuration is done.

0038-010 Problem starting the automount daemon.

Explanation: An attempt to start the automount daemon was made but the automount command did not complete successfully.

User Response: Check the automounter log file `/var/adm/SPlogs/auto/auto.log` for messages. Also, check the daemon log file `/var/adm/SPlogs/SPdaemon.log` for messages from the automount daemon.

Make sure that the automounter configuration command completed successfully and that the `/etc/auto.master` master map file is correct. Make sure that all automount maps listed in the master map file are correct.

0038-011 The automount daemon is not running. Cannot be refreshed.

Explanation: An attempt to refresh the automount daemon was made but the automount daemon is not

currently running. The daemon could not be refreshed.

User Response: Make sure that the automount daemon should be running at this time. Check the automounter log file `/var/adm/SPlogs/auto/auto.log` to see if there is any reason why the automount daemon is not running.

Also, check the daemon log file `/var/adm/SPlogs/SPdaemon.log` to see if the automounter daemon reported any errors. Start the automount daemon if necessary.

0038-012 Cannot set up automounter directory /etc/auto. Exiting...

Explanation: `amd_config` will set up the automounter by copying files from `/usr/lpp/ssp/config/auto` to `/etc/auto`.

User Response: Make sure that the `/etc/auto` directory could be created. Also, verify that the automounter files in `/usr/lpp/ssp/config/auto` exist and are readable so that they can be copied into `/etc/auto`.

0038-013 The file system *file system* is already in use by another automounter. Cannot start the automount daemon.

Explanation: An attempt to start the automount daemon was made but the `file system` file system is already in use by another automounter process.

User Response: Issue the `mount` command to get the process id of the automounter that is controlling the file system. Make sure no directories being controlled by that automounter are currently in use.

Stop the automounter according to the recommended procedures for that automounter. Start the automounter daemon either by running `services_config` or directly by issuing the `/etc/auto/startauto` command.

0038-020 Cannot read input file: *file name*

Explanation: An attempt to read the `file name` was made but the file could not be opened for read access.

User Response: Verify that the file exists and that the file access permissions allow the file to be read by this command.

0038-021 Cannot write output file: *file name*

Explanation: An attempt to write to the `file name` file was made but the file could not be opened for write access.

User Response: Make sure the directory and the file access permissions allow the file to be written to by this command.

0038-022 Cannot append to output file: *file name*

Explanation: An attempt to append to the `file name` was made but the file could not be opened for write access.

User Response: Make sure that the directory and file access permissions allow the file to be written to by this command.

0038-023 Cannot process Amd /defaults field: *field*

Explanation: While processing the `/defaults` entry in the Amd map file, a field was encountered that could not be processed by this command. The field will be ignored and the rest of the `/defaults` entry will be processed.

User Response: Review the generated Automount map file and make sure that the field can be safely ignored without affecting the desired behavior of the Automount daemon. You may need to modify the generated Automount map or master map file to produce the desired behavior.

0038-024 *new_value* does not match previous *field_name* value of *old_value*

Explanation: While processing an Amd map entry, a second `field_name` was encountered and the `new_value` did not match the previous `old_value`. The Amd entry will be ignored and no corresponding Automount entry will be generated. The command will continue processing with the next Amd entry.

User Response: Verify that the input Amd map file entry had been previously created by the `spmkuser` command or the `mkamdent` command. If this Amd entry had been manually created or modified, it may contain fields that could not be successfully processed by this command.

Review the generated Automount map file and make sure that the field can be safely omitted without affecting the desired behavior of the Automount daemon. You may need to manually convert the Amd entry and add it to the Automount map file to produce the desired behavior.

0038-025 Cannot process field: *field*

Explanation: While processing an Amd map entry, a `field` was encountered that could not be processed by this command. The Amd entry will be ignored and no corresponding Automount entry will be generated. The command will continue processing with the next Amd entry.

User Response: Verify that the input Amd map file entry had been previously created by the `spmkuser` command or the `mkamdent` command. If this Amd entry had been manually created or modified, it may contain

fields that could not be successfully processed by this command.

Review the generated Automount map file and make sure that the field can be safely omitted without affecting the desired behavior of the Automount daemon. You may need to manually convert the Amd entry and add it to the Automount map file to produce the desired behavior.

0038-026 **Cannot generate an Automount map file entry from the following Amd entry:**
Amd_map_entry

Explanation: While processing an Amd map entry, errors were encountered and an equivalent Automount map entry could not be created. Specific error messages listing the problem fields precede this message. The Amd entry will be ignored and no Automount entry will be generated.

The command will continue processing with the next Amd entry.

User Response: Verify that the input Amd map file entry had been previously created by the **spmkuser** command or the **mkamdent** command. If this Amd entry had been manually created or modified, it may contain fields that could not be successfully processed by this command.

Review the generated Automount map file and make sure that the field can be safely omitted without affecting the desired behavior of the Automount daemon. You may need to manually convert the Amd entry and add it to the Automount map file to produce the desired behavior.

0038-027 **There is no valid entry in the /etc/auto.master file. Cannot start the automount daemon.**

Explanation: An attempt to start the **automount** daemon was made, but there was no valid entry in the master map file.

User Response: Check to make sure that the master map file is correct and that there is at least one valid entry in it.

0038-028 **The directory *directory_name* in the /etc/auto.master file is a symbolic link, or not a directory. Cannot start the automount daemon.**

Explanation: An attempt to start the **automount** daemon was made, but the directory pointed to by the master map file is either a symbolic link to another directory, or is not a directory.

User Response: Check to make sure that the master map file is correct and that the directory pointed to is not a link.

0038-029 **The file *file_name* referred to in the /etc/auto.master file is not a valid mapfile. Cannot start the automount daemon.**

Explanation: An attempt to start the **automount** daemon was made, but the file referred to in the master map file does not exist or is not readable.

User Response: Check to make sure that the master map file is correct and that the file pointed to is a valid, readable file.

Chapter 17. 0041 - Remote command messages for Kerberos Version 4

The AIX remote commands now support DCE, Kerberos Version 4, and Standard AIX authentication. Kerberos Version 4 is valid only on the SP system, and the following messages pertain to the Kerberos Version 4 function only. For all other messages, refer to the appropriate AIX Messages manual.

0041-002 Host *host_name* is not registered for Kerberos V4 service.

Explanation: An **rcmd** service principal is not defined for the target host. You specified one of the following:

- A target host that does not have the PSSP authenticated services installed and configured
- A network interface (host name) that has not been completely configured (through node customization) in an SP node
- A network interface (on an independent workstation) that was added after authentication services were configured on it.

User Response: This problem may require the attention of the system administrator and may be a user error, since Kerberos authenticated remote commands can only be used between hosts with PSSP authenticated services installed (**fileset ssp.clients**) and configured (using **setup_authent**).

Ensure that the adapter information for the new interface has been added to the SDR and that the node is customized. You can run **setup_authent** on the target workstation, but tickets for remote services on the workstation will have to be reacquired. If the problem persists, record the above information and contact the IBM Support Center.

0041-003 No tickets file found. You need to run **k4init**.

Explanation: The user does not have a ticket required to use authenticated services.

User Response: If you issued either the **rsh**, **rcp**, or **dsh** command (or any other program that requires you to **k4init** prior to running it), issue the **k4init** command to obtain a ticket and try running the failing program again. If the message occurred when running a script that obtains a ticket using an **rcmdtgt** command, which failed, contact the IBM Support Center.

0041-004 Kerberos V4 **rcmd** was unsuccessful: *error_sentence_from_kerberos_library_call*.

Explanation: The remote command did not succeed for the reason listed.

User Response: The system administrator should check the authentication environment, referring to the

information for the Kerberos V4 error message.

0041-005 Kerberos V4 **rsh** or **rcp** was not successful:

error_sentence_from_kerberos_library_call.

Explanation: The Kerberos V4 **krb_recvauth** call did not succeed. Could not get the data to authenticate.

User Response: The system administrator should check that Kerberos V4 authentication is working properly and all principals and keys are in the Kerberos V4 database. If it cannot be corrected, call the IBM Support Center.

0041-006 Remote to remote copies are restricted in SP.

Explanation: The PSSP remote command, **rcp**, has a restriction on remote-to-remote copying of a file. You cannot issue the command on host A to copy a file on host B to host C.

User Response: Login one of the hosts and do a local-to-remote copy or remote-to-local copy.

0041-007 **kshell/tcp**: Unknown service.

Explanation: The **kshell** service was not found.

User Response: Verify that the **kshell** entries in the **/etc/services** and **/etc/inetd.c** files exists.

0041-009 A Kerberos V4 realm is required for the **-k** flag.

Explanation: The user needs to input a Kerberos V4 realm with this flag.

User Response: Run **rsh** again with the correct inputs.

0041-010 Cannot import **nflag** or **options** variable.

Explanation: AIX **rsh** imports the **nflag** and **options** variable which **spk4rsh** in **libspk4rcmd.a** requires.

User Response: Verify that the correct Problem Management Report has been installed and contact the IBM Support Center.

0041-011 **Kerberos V4 rcmd was unsuccessful:**
*error information from Kerberos library
call.*

Explanation: The remote command was not successful for the reasons listed.

User Response: The system administrator should check the Kerberos V4 environment.

Chapter 18. 2500 - Hashed Shared Disk (HSD) messages

2500-001 Cannot open or access file *file_name*.

Explanation: The file does not exist or does not have the appropriate permissions.

User Response: Verify that the file exists with the appropriate permissions.

2500-002 Error opening HSD *HSD_name*.

Explanation: The data striping device (HSD) cannot be opened or it does not exist.

User Response: Use `lshsd` to verify that the file exists.

2500-003 The *ioctl_string* `ioctl()` call failed.

Explanation: The `ioctl` call failed for the specified `ioctl`.

User Response: See the `errno` to determine the reason for failure.

2500-004 The call to `odm_initialize()` failed
odmerrno_value

Explanation: The `ioctl` call to start the odm failed. The `odmerrno` variable has been set to indicate the error.

User Response: Use the `odmerrno` value to determine the error.

2500-005 The call to `genmajor()` failed
conferrno_value.

Explanation: The call to `genmajor()` to retrieve the data striping device (HSD) major number failed. The `conferrno` variable has been set to indicate the error.

User Response: Use the `conferrno` and the `errno` values to determine the reason for failure.

2500-006 Error Unloading the HSD Kernel Extension.

Explanation: The `loadext()` call failed.

User Response: Check the `errno` to determine the reason for failure.

2500-007 The HSD device driver is not loaded.

Explanation: The HSD driver should already be loaded at this point.

User Response: Configure the HSD.

2500-008 The *hsd_command_name* command passed to the HSD Device Driver failed.

Explanation: The HSD driver encountered an error condition while executing the specified command.

User Response: See the `errno` to determine the reason for failure.

2500-009 With the `-a` option, additional parameters are not allowed.

Explanation: The user specified the `-a` option. This means *all* HSDs. Additional parameters are not allowed on the command line.

User Response: Reissue the command with no additional parameters.

2500-010 File *file_name* not found.

Explanation: The specified file does not exist.

User Response: The HSD needs to be placed in the SDR. This file will then be created automatically the next time `cfghsd` is called.

2500-011 Definition of HSD *hsd_name* not found in the file *hsd_table_pathname*.

Explanation: The specified HSD could not be found in the `HSD_Table` file.

User Response: Check that the data in the HSD is correct. Modify the SDR as necessary.

2500-012 Cannot allocate memory for *item*.

Explanation: The `malloc` call to allocate temporary storage for the item failed.

User Response: This is system problem.

2500-013 HSD_name *hsdvsd_name* cannot be the same as VSD name.

Explanation: If the HSD and the IBM Virtual Shared Disk both tried to create the same special files in `/dev`, the HSD `/dev` files would overlay the IBM Virtual Shared Disk `/dev` files, rendering both unusable.

User Response: Make up a new HSD name. The recommended naming convention is *hsd.logical_name*. Retry the operation.

2500-014 You have specified a HSD name, *HSD_name*, that does not exist.

Explanation: The method invoked the command for a `HSD_name` that does not have an entry in the SDR.

User Response: No action required. You do not have a HSD with this name.

2500-017 *method_command failed on HSD_name*

Explanation: The method invoked the command for HSD_name, and the command failed for that HSD.

User Response: See the previous error message displayed from the command for details. This message identifies the HSD_name that the previous error message didn't.

2500-021 **The repository cannot be accessed.**
Return code was *return_code*.

Explanation: The routine could not access the System Data Repository. The routine halted.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide* for more information on diagnosing system monitor problems.

2500-022 **You have specified an invalid number of arguments.**

Explanation: An invalid command format was issued. The routine halted.

User Response: Reenter the command with the correct format.

2500-023 **You have specified an invalid flag.**

Explanation: A flag passed to the routine was invalid.

User Response: Reenter the command with the correct flag.

2500-024 **Issuing the command** *SDR_command* **gave a return code of** *return_code*.

Explanation: The routine passed a command to the System Data Repository which gave a nonzero return code.

User Response: Refer to the chapter on diagnosing system monitor problems in *PSSP: Diagnosis Guide*.

2500-025 **Virtual Shared Disk** *vsd_name* **is not found or configured.**

Explanation: The IBM Virtual Shared Disk *vsd_name* is not defined or configured.

User Response: Check to see if the IBM Virtual Shared Disk is defined and configured.

2500-026 **Failed to configure Hashed Shared Disk** *hsd_name*.

Explanation: The program failed to configure a HSD.

User Response: Check to see if all underlying IBM Virtual Shared Disks are defined and configured.

2500-031 **Error unlinking** *device_name*.

Explanation: The HSD special file already exists with a different device number from the specified device number.

User Response: Use *rm* to remove *device_name* from */dev*.

2500-032 **Error loading the HSD kernel extension.**

Explanation: The *loadext()* call failed.

User Response: See the *errno* to determine the reason for failure.

2500-033 **Error Configuring the HSD Device.**

Explanation: The *sysconfig()* call failed.

User Response: See the *errno* to determine the reason for failure.

2500-034 **Device already exists.**

Explanation: The *sysconfig()* call failed and *errno* is EALREADY. The device is already configured.

User Response: Do not attempt to configure a device that is already configured.

2500-035 *name is too long. Length must be less than or equal to 31 characters*

Explanation: The name passed is unacceptable. The length of the name must be less than or equal to 31 characters.

User Response: Correct the name's length and reenter the command.

2500-036 **Special Device File** *file_name* **already exists, and does not have the proper HSD major number of** *major_number*.

Explanation: The file the HSD is trying to create already exists for a non-HSD.

User Response: Change the name of the HSD that conflicts with the existing device or remove the existing device file and try the operation again.

2500-037 Can't create Special Device File
file_name.

Explanation: The HSD special device file create operation (**mknod**) failed. The reason for the **mknod** failure is also printed.

User Response: Refer to the **mknod** failure message to correct the problem.

2500-050 Invalid Parallelism Value, *parallelism*
value.

Explanation: An invalid parallelism value was passed in. Valid values are:

AIX 3.2.5

Between 1 and 9

AIX 4.1 Between 1 and 64

User Response: Retry the command with a valid parallelism value

2500-060 Invalid HSD command *command.*

Explanation: The command passed to **dohsd2** was invalid.

User Response: Use the valid command **ucfg**.

2500-070 The -s and -l flags are not compatible.

Explanation: The **-s** and the **-l** flags cannot be used together.

User Response: Reissue the command with only one of these flags.

2500-071 Cannot allocate memory for HSD info.
The count of HSDs is *hsd_count.*

Explanation: The **malloc** call to allocate temporary storage for the HSD information failed.

User Response: Try again specifying the HSD you are interested in.

2500-082 The stripe_size must be a number
greater than or equal to 4096 and less
than or equal to 128K.

Explanation: A unacceptable value was entered for the stripe size.

User Response: Reenter the command with the correct value.

2500-083 HSD_name *HSD_name* is already in
use.

Explanation: The name specified already defines a HSD in the SDR.

User Response: Use the **undefhsd** command to delete the entry in the SDR and reenter the **undefhsd**

command. Or pick another HSD name.

2500-084 VSD_name *VSD_name* is already used
in other HSD.

Explanation: The *VSD_name* specified has been defined in another HSD.

User Response: Select another IBM Virtual Shared Disk which is not used by any HSD.

2500-085 The HSD_name, *HSD_name* cannot be
the same as an VSD_name.

Explanation: The HSD and the IBM Virtual Shared Disk both create special device files in **/dev** using the HSD and the IBM Virtual Shared Disk names respectively. Therefore, these names cannot be the same.

User Response: Make up a new name for the HSD. The suggested naming convention is **hsd.logical_name**.

2500-086 name too long. Length must be less
than or equal to 31 characters.

Explanation: The name passed was unacceptable. The length of the name must be less than or equal to 31 characters.

User Response: Correct the name's length and reenter the command.

2500-087 The option must be either protect_ivcb
or not_protect_ivcb.

Explanation: You must select one option; **protect_ivcb** or **not_protect_ivcb**.

User Response: Select **protect_ivcb** if you wish to protect the logical volume control block. If you do not wish to protect it, select **not_protect_ivcb**.

2500-089 Entry already in the SDR.

Explanation: The information specified for this command has already been placed in the SDR.

User Response: You do not need to reenter the information; it is already in the SDR.

2500-090 You have specified an VSD name,
***VSD_name* that does not exist.**

Explanation: The name specified does not have an entry in the SDR.

User Response: Use the **vsdata1st** to get a list of defined IBM Virtual Shared Disks.

2500-091 **stripe_size** *stripe_size* is not multiple of 4K.

Explanation: The value of the stripe size must be a multiple of 4K.

User Response: Rerun the command using a stripe size that is a multiple of 4K.

2500-092 **stripe_size** must be between 4K and 1GB.

Explanation: The value of the stripe size must be between 4K and 1GB.

User Response: Rerun the command using a stripe size between 4K and 1GB.

2500-093 **Failed to generate hsd minor number** *minor_number* for hsd *hsd_name*.

Explanation: If a new minor number is generated for a given HSD, and the return code from the SDR is not zero, an error occurs.

User Response: Check to see if the *minor_number* is a valid integer. If the *minor_number* is a valid integer, the problem is in the SDR.

Use `/usr/lpp/ssp/bin/SDRGetObjects -q hsd_minor_number` to verify the minor number in the SDR. If the *minor_number* is not a valid integer, the problem is in `defhsd`. Use `hstatlst` to verify the minor number in defined HSDs.

2500-094 **Bad system class** *hsd_minor_number* in SDR.

Explanation: If a new minor number is generated for a given HSD, and the system class *hsd_minor_number* is empty after HSDs were defined, an error occurs.

User Response: Check the SDR database. Use `/usr/lpp/ssp/bin/SDRGetObjects -q hsd_minor_number` to verify the minor number in the SDR.

2500-095 **All the VSDs in the HSD must be of the same size.**

Explanation: All the IBM Virtual Shared Disks within an HSD must be the same size. All the IBM Virtual Shared Disks specified do not have the same size.

User Response: Check the SDR database. You may use the `/usr/lpp/ssp/bin/SDRGetObjects -q VSD_Table VSD_name size_in_MB` command to verify IBM Virtual Shared Disk sizes in the SDR.

2500-100 **The HSD character special device file** *character_device_name* is not found. Have you run `cfghsd hsd_name`?

Explanation: The `/dev/r<hsdname>` device file does not exist.

User Response: Run `cfghsd` to configure the device.

2500-101 **The file /unix was not found at** *device_driver_pathname*.

Explanation: The `/unix` file was not found.

User Response: Use `find` to locate the boot image.

2500-102 **Step 1: FAILURE! The write of hsd to** *hsd_name* failed.

Explanation: The write of the `/unix` to the specified HSD failed.

User Response: Check that the HSD exists and has been properly installed and configured.

2500-103 **Error: records in =** *records_in* **records out =** *records_out*.

Explanation: The `dd` command failed.

User Response: Check that the HSD has been properly installed and configured.

2500-104 **Error: remainder in =** *remainder_in* **remainder out =** *remainder_out*.

Explanation: The `dd` command failed.

User Response: Check that the HSD has been properly installed and configured.

2500-105 **Step 2: FAILURE! Bad rc (return_code) from dd of HSD to temporary file.**

Explanation: The read back of the HSD driver from the HSD failed.

User Response: Check the man page for the `dd` to determine the error.

2500-106 **Step 3: FAILURE! Bad rc (return_code) from dd of THSDD to temporary file.**

Explanation: The read of the `/unix` failed.

User Response: Check the man page for the `dd` to determine the error.

2500-107 **Step 4: FAILURE! Bad rc (return_code) from diff of temporary files.**

Explanation: The diff between what was read back from the HSD and the HSD driver failed.

User Response: Check the man page for **diff** to determine the error.

2500-108 *hsd_name* is not an active hsd. Have you run **cfghsd**?

Explanation: The parameter to **hsvts** must be a HSD in the active state.

User Response: Make sure you have defined your HSD; run **cfgvsd** and **startvsd**; and run **lshsd -l** to see that your HSD is in the active state.

2500-116 Check *HSD_table_name* table in the SDR, cannot find the table.

Explanation: Some fields in the table are incorrect.

User Response: Run SMIT to set HSD information.

2500-117 Check *HSD_table_name* table in the SDR, it is an empty table.

Explanation: Some fields in the HSD table are incorrect.

User Response: Run SMIT to set HSD information.

2500-118 Check *HSD_table_name* table in the SDR, undefined field is found.

Explanation: Some fields in the HSD table are incorrect.

User Response: Run SMIT to set HSD information.

2500-119 Failed to create new hsd files, default will be current */usr/lpp/csd/hsdfiles*

Explanation: At least one of the new HSD tables is incorrect.

User Response: Run SMIT to set HSD information.

2500-120 Lock file (*file_name*) held too long; I am taking it. You may want to investigate.

Explanation: **hsdreadSDR** uses a lock file which is a directory. **hsdreadSDR** waits about 7 seconds for the lock, then generates this message and continues running. If you see this message after the first **cfghsd** following a reboot, it probably means that the system crashed in the middle of a previous **cfghsd**, leaving behind a lock file. If this is the case, you can ignore the message.

If the message is generated in circumstances other than the first **cfghsd** following a reboot, it may be that another process is running a **cfghsd** and that process is hung. Insure that */usr/lpp/hsd/hsdfiles* is a writable directory on a writable file system.

User Response: If this is not the first **cfghsd** after a reboot, check to see if another process is running

cfghsd and if that process is hung.

2500-121 Unable to find and create *hsd_flat_file_directory_name*.

Explanation: The file was not found and the **mkdir** command to create it failed.

User Response: Investigate the **mkdir** failure and fix the problem. If the parent directory is not writable on this node, go to a node where you can write to the directory and make this file a symbolic link to a file system that is writable from the original node.

2500-123 HSD *hsd_name* is configured on node host and cannot be undefined.

Explanation: A HSD cannot be undefined if it is configured on any node.

User Response: Use the **ucfghsd** command for the *hsd_name* on the host to unconfigure the HSD, then enter the **undefhsd** again.

2500-124 Deletion of hsd *hsd_name* from the HSD_Table in the SDR failed with a return code of *return_code*. *hsd_name* and minor number *minor_number* are not undefined.

Explanation: The **SDRDeleteObjects** command failed when trying to undefine the HSD by deleting it from the SDR *HSD_Table* class. The *minor_number* was not deleted from the SDR *HSD_Minor_Number* class.

User Response: To determine how to fix the problem, see the preceding message from the **SDRDeleteObjects**, and then enter the **undefhsd** command again.

2500-125 Some IBM Hashed Shared Disk Devices already exist before operation. Please use **lshsd** command to check the states.

Explanation: In order to run the **cfghsd** operation on the HSD this HSD must not be configured.

User Response: Use the **lshsd** command to check to see if the HSD has been configured.

2500-126 IBM Hashed Shared Disk Device is not configured.

Explanation: In order to run the **ucfghsd** operation on the HSD it must be configured first.

User Response: Use the **cfghsd** command to configure the HSD, and try the failing command again.

2500-127 IBM Hashed Shared Disk Device *device name is not defined.*

Explanation: The IBM Hashed Shared Disk has not been defined.

User Response: Reissue the command with a valid IBM Hashed Shared Disk name.

2500-501 uiomove failed.

Explanation: The **uiomove** system call failed.

User Response: Record the above information and contact the IBM Support Center.

2500-502 out of memory.

Explanation: Allocation of pinned memory in the kernel has failed.

User Response: Record the above information and contact the IBM Support Center.

2500-503 devswadd failed.

Explanation: An attempt to add **vsdd** functions to the device switch table failed.

User Response: Record the above information and contact the IBM Support Center.

2500-504 pincode failed.

Explanation: An attempt to put **hsdd** driver code into pinned memory failed.

User Response: Record the above information and contact the IBM Support Center.

2500-505 devswdel failed.

Explanation: An attempt to delete **vsdd** entries from the device switch table failed.

User Response: Record the above information and contact the IBM Support Center.

2500-506 xmalloc error.

Explanation: An attempt to allocate pinned memory in the kernel failed.

User Response: Record the above information and contact the IBM Support Center.

2500-507 device (*device major number, device minor number*) **already configured.**

Explanation: This device has already been configured.

User Response: None.

2500-508 device (*device major number, device minor number*) **not configured.**

Explanation: An attempt was made to unconfigure a device that was not configured.

User Response: None.

2500-509 device (*device major number, device minor number*) **not configured.**

Explanation: An attempt was made to unconfigure a device that was not configured.

User Response: None.

2500-510 failed due to lock mismatch.

Explanation: A locking problem was encountered.

User Response: Record the above information and contact the IBM Support Center.

2500-511 failed due to number of opens mismatch.

Explanation: There is an error in the **open** counter for this **hsd**.

User Response: Record the above information and contact the IBM Support Center.

2500-512 failed to remove entry points.

Explanation: The **devswdel()** system call failed while trying to unconfigure the Hashed Shared Disk device driver.

User Response: Record the above information and contact the IBM Support Center.

2500-513 unpincode failed.

Explanation: The **unpincode()** system call failed while trying to unconfigure the Hashed Shared Disk device driver.

User Response: Record the above information and contact the IBM Support Center.

2500-514 check hsd_inited device (*device major number, device minor number*) **NOT configured.**

Explanation: The Hashed Shared Disk device driver is not initialized.

User Response: Record the above information and contact the IBM Support Center.

2500-515 **check find_hsd device** (*device major number, device minor number*) **NOT configured.**

Explanation: This device has not been configured.

User Response: Configure the hsd and retry the operation.

2500-516 **check hsd_stat device** (*device major number, device minor number*) **is not configured.**

Explanation: This device has not been configured.

User Response: Configure the hsd and retry the operation.

2500-517 **check hsd_initiated device** (*device major number, device minor number*) **NOT configured/opened.**

Explanation: The Hashed Shared Disk device driver is not initialized.

User Response: Record the above information and contact the IBM Support Center.

2500-518 **check find_hsd device** (*device major number, device minor number*) **NOT configured/opened.**

Explanation: This device has not been configured.

User Response: Record the above information and contact the IBM Support Center.

2500-519 **get hsd_gen_info failed.**

Explanation: A failure occurred copying data to user space.

User Response: Record the above information and contact the IBM Support Center.

2500-520 **vlevel copyin failed.**

Explanation: A failure occurred copying data to the kernel.

User Response: Record the above information and contact the IBM Support Center.

2500-521 **parallelism copyin failed.**

Explanation: A failure occurred copying data to the kernel.

User Response: Record the above information and contact the IBM Support Center.

2500-522 **parallelism value invalid.**

Explanation: The value specified for the hsd parallelism is invalid.

User Response: Specify a value between 1 and 9.

2500-523 **GIOCGET device** (*device major number, device minor number*) **NOT configured.**

Explanation: This device has not been configured.

User Response: Configure the device and retry the operation.

2500-524 **GIOCGET copyout failed.**

Explanation: A failure occurred copying data to user space.

User Response: Record the above information and contact the IBM Support Center.

2500-525 **GIOCGETL copyin failed.**

Explanation: A failure occurred copying data to the kernel.

User Response: Record the above information and contact the IBM Support Center.

2500-526 **GIOCGETL copyout failed.**

Explanation: A failure occurred copying data to user space.

User Response: Record the above information and contact the IBM Support Center.

2500-527 **GIOCGETL copyout vsd_data_len failed.**

Explanation: A failure occurred copying data to user space.

User Response: Record the above information and contact the IBM Support Center.

2500-528 **GIOCGETL copyout hsd_info_list failed.**

Explanation: A failure occurred copying HSD_INFO_LIST to user space.

User Response: Record the above information and contact the IBM Support Center.

2500-529 **GIOCGET device** (*device major number, device minor number*) **NOT configured.**

Explanation: This device has not been configured.

User Response: Configure the device and retry the operation.

2500-530 **bad ioctl request 0x** *the passed in ioctl op code.*

Explanation: An invalid **ioctl** request was issued.

User Response: Retry the operation with a valid request.

2500-531 **device** (*device major number, device minor number*) **NOT configured.**

Explanation: This device has not been configured.

User Response: Configure the device and retry the operation.

2500-532 **uphysio failed on hsd with minor number** *hsd device minor number.*

Explanation: The **uphysio()** system call failed.

User Response: Record the above information and contact the IBM Support Center.

2500-533 **device** (*device major number, device minor number*) **NOT configured.**

Explanation: This device has not been configured.

User Response: Configure the device and retry the operation.

2500-534 **uphysio failed on hsd with minor number** *hsd device minor number.*

Explanation: The **uphysio()** system call failed.

User Response: Record the above information and contact the IBM Support Center.

2500-535 **cant open device** (*device major number, device minor number*).

Explanation: An **open** of the device failed.

User Response: Check the state of the device.

2500-536 **cannot close device with minor number** (*hsd device minor number*).

Explanation: A **close** of the device failed.

User Response: Check the state of the device.

Chapter 19. 2501 - sysctl messages

2501-000 Out of memory

Explanation: Your request could not be processed because storage was unavailable.

User Response: Follow normal problem reporting procedures.

2501-001 Invalid procedure

Explanation: An internal Sysctl error occurred processing your request.

User Response: Follow normal problem reporting procedures.

2501-002 Unknown procedure

Explanation: An internal Sysctl error occurred processing your request.

User Response: Check for messages describing Kerberos and/or DCE error conditions. Take appropriate actions, based on those messages.

2501-003 Authentication was unsuccessful.

Explanation: The program could not complete authentication processing.

User Response: Check for messages describing Kerberos and/or DCE error conditions. Take appropriate actions, based on those messages.

2501-004 Unknown host

Explanation: You specified a server host that is not known to the name service.

User Response: Check the spelling of the name. If correct, check for a nameservice problem.

2501-005 Remote operation timed-out

Explanation: Your request did not complete before the timeout period allowed.

User Response: Check the procedure invoked for problems. Use the `—T` flag to allow additional time for long-running procedures.

2501-006 No response

Explanation: A server host did not respond to the request within the period allowed by the connection timeout value.

User Response: Check the status of the host and its sysctld server.

2501-007 Version mismatch

Explanation: The protocol version number used by the client and server hosts do not match. This is an internal system problem.

User Response: Follow normal problem reporting procedures.

2501-008 Unknown service

Explanation: The program attempted to obtain the default port from the `/etc/services` file, but did not find the sysctl service defined.

User Response: Check for problems with the file. Follow normal error reporting procedures.

2501-009 Connection did not succeed.

Explanation: The program was unable to connect to the server on a target host.

User Response: Socket resources may have been exhausted. Check for any system problems and follow normal problem reporting procedures.

2501-010 Error decrypting message (client)

Explanation: You specified "safe" message mode, but the client was unable to verify the integrity of the results from the server.

User Response: The protocol stream between the server and client may have been corrupted. Follow normal problem reporting procedures.

2501-011 Error encrypting message (client)

Explanation: You specified "safe" message mode, but the client was unable to create the encrypted token required by the server.

User Response: Follow normal problem reporting procedures.

2501-012 Remote system error

Explanation: The server program encountered an error on a system call.

User Response: Check the server log file on the host that returned this error.

2501-013 Broken pipe (remote)

Explanation: The connection between the client and server was broken when processing a request.

User Response: Check the server log file, if you did

not intentionally interrupt the process.

2501-014 TCL error

Explanation: An error condition was returned by a procedure.

User Response: See other messages written to stderr by the procedure.

2501-015 Error reading from socket

Explanation: The program detected an error reading data from its client or server peer.

User Response: Try the request again. Follow normal error reporting procedures.

2501-016 Error writing to socket

Explanation: The program detected an error sending data to its client or server peer.

User Response: Try the request again. Follow normal error reporting procedures.

2501-017 Error creating socket

Explanation: The socket () system call did not succeed. This is a system problem.

User Response: Follow normal error reporting procedures.

2501-018 Connection refused

Explanation: The sysctld server on a target host did not accept the connection request. The server may not be running, or you may have specified a host that is not valid.

User Response: Check that the server is running. If it is not running, start it or specify another host.

2501-019 Operation too large.

Explanation: The procedure invocation, including arguments, was too large for the Sysctl buffer.

User Response: Check for an input error and check that the procedure was correctly designed and implemented.

2501-020 Buffer overflow (server)

Explanation: The procedure generated more output than can be held in the server's buffer.

User Response: Check with the owner of the procedure. It may have been run in socket mode to avoid buffer limitations.

2501-021 Can't decrypt message (server)

Explanation: You specified "safe" message mode, but the server was unable to verify the integrity of the request from the client.

User Response: The protocol stream between client and server may have been corrupted. Follow normal problem reporting procedures.

2501-022 Can't encrypt message (server)

Explanation: You specified "safe" message mode, but the server was unable to create the encrypted token required by the client.

User Response: Follow normal problem reporting procedures.

2501-023 Ticket expired

Explanation: Your Kerberos ticket has expired.

User Response: You must have correct Kerberos credentials to complete the request on the host that returned this error. Use K4init, and then try the request again.

2501-024 Ticket timestamp out of bounds

Explanation: The time-of-day clock on the host that returned this error is not in synch with the clock on the Kerberos server.

User Response: Resynchronize the clocks and try the request again.

2501-025 Can't decode ticket (server)

Explanation: The Kerberos server for the rcmd.hostname principal on the host that returned this error is out of date.

User Response: Follow the recommended procedure for refreshing the key file, then try the request again.

2501-026 Incorrect network address in ticket

Explanation: An internal error occurred on the server host that returned this error.

User Response: Follow normal error reporting procedures.

2501-027 Version mismatch (auth)

Explanation: An internal error occurred on the server host that returned this error.

User Response: Follow normal error reporting procedures.

2501-028 Illegal msg type (auth)

Explanation: An internal error occurred on the server host that returned this error.

User Response: Follow normal error reporting procedures.

2501-029 Request inconsistent (auth)

Explanation: An internal error occurred on the server host that returned this error.

User Response: Follow normal error reporting procedures.

2501-030 Error decrypting message

Explanation: An internal error occurred on the server host that returned this error

User Response: Follow normal error reporting procedures.

2501-031 Error encrypting message

Explanation: An internal error occurred on the server host that returned this error

User Response: Follow normal error reporting procedures.

2501-032 Invalid message type

Explanation: An internal error occurred on the server host that returned this error

User Response: Follow normal error reporting procedures.

2501-033 Message too long

Explanation: An internal error occurred on the server host that returned this error

User Response: Follow normal error reporting procedures.

2501-034 Incomplete procedure

Explanation: You entered a TCL script as input to the Sysctl procedure (using a replay file or interactive mode) but it was syntactically incomplete.

User Response: Enter the request again, including the complete procedure.

2501-035 Unexpected error code:

Explanation: The sysctld server returned an unexpected error.

User Response: Follow normal error reporting procedures.

2501-036 Could not set client locale

Explanation: The server was unable to set the same locale as your environment, and the request required that it be rejected in this case.

User Response: Contact your administrator regarding language support on your system.

2501-100 *program name:* Cannot determine the local hostname.

Explanation: The program cannot determine the local hostname.

User Response: Check network name service.

2501-101 *program name:* Out of Memory!

Explanation: Not enough memory to run program.

User Response: Try again.

2501-102 Cluster file *cluster argument* is not a valid pathname.

Explanation: The cluster argument must specify the pathname of a file that lists target hostnames.

User Response: Enter the command again.

2501-103 Cannot connect to multiple servers in socket mode.

Explanation: You specified socket mode and multiple hosts. The program can access only one server host when operating in socket mode.

User Response: Enter the command again properly.

2501-104 Cannot connect to multiple servers in interactive mode.

Explanation: You specified multiple hosts and no procedure to run. The program can access only one server host when operating in an interactive mode.

User Response: Enter the command again properly.

2501-105 Error reading replay file.

Explanation: A problem has occurred trying to read the replay file.

User Response: Check replay file permissions.

2501-106 Attention: cannot create locking file.

Explanation: The program cannot create a locking file in /tmp..

User Response: Check file system space and permissions.

2501-107 You specified incorrect arguments.
Usage: *command* [-f *aclfile*] *principal*.

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Enter the command again with the correct number of arguments.

2501-108 *procedure*: Maximum number of ACL files checked. Possible loop.

Explanation: The maximum number of ACL files have been searched.

User Response: Check for an accidental recursive loop in the ACL files.

2501-109 *procedure* Error locking file *acl_filename*.

Explanation: Could not get the required lock on the specified file.

User Response: Wait for the file to become unlocked and retry the operation.

2501-110 *procedure*: First line of file must be #acl#.

Explanation: An ACL file specified did not contain a first line of "#acl#".

User Response: Verify that file is an ACL file by checking the contents of first line.

2501-111 You specified incorrect arguments.
Usage: *procedure* [-f *aclfile*][[*-n principal...*] [-p *principal...*] [*-A*][*-U*][*-a aclfiles...*]

Explanation: The user specified an incorrect argument on one of the built-in Sysctl procedures for ACL management (*aclcreate*, *aclrecreate*, *acladd*, or *acldelete*).

User Response: Enter the command again with the correct number of arguments.

2501-112 *procedure* File *Filename* already exists.

Explanation: The specified file cannot be created because it already exists.

User Response: Enter the command again and specify an unused file name.

2501-113 Cannot get local network address.

Explanation: The server could not get the local host IP address.

User Response: Diagnose and correct the networking problem.

2501-114 You specified incorrect arguments.
Usage: *procedure name varName*.

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Enter the command again specifying the correct number of arguments.

2501-115 Cannot get mount status.

Explanation: Sysctl could not get the mount status using the *mntctl()* subroutine.

User Response: Correct the file system mount problem and enter the command again.

2501-116 Cannot open mount table.

Explanation: Sysctl was not successful opening the file system mount table.

User Response: Correct the file system mount table problem and enter the command again.

2501-117 *procedure* Argument contains a shell character that is not permitted: *argument*

Explanation: The indicated procedure (*safeargs*, *safesystem*, or *safeexec*) found one or more illegal shell meta-characters in its argument strings. The disallowed characters are: dollar sign, ampersand, asterisk, right or left parenthesis, right or left brace, right or left bracket, back quote, quote, double quote, semicolon, back slash, vertical bar, question mark, less than, more than, tilde, and newline.

User Response: Enter the command again without the illegal character.

2501-118 The *procedure* procedure takes no arguments. .

Explanation: The user specified arguments when none were expected.

User Response: Enter the command again using the correct syntax.

2501-119 Cannot fork.

Explanation: The program could not create a child process.

User Response: Correct the system resource problem and enter the command again.

2501-120 **Client could not open message catalog.**

Explanation: The Sysctl client could not find the Sysctl message catalog. It expects to find it according to **\$NLSPATH/smsysctl.cat** if **\$LC_MESSAGES** is not "C". It expects to find it in **/usr/lib/nls/msg/C/smsysctl.cat** if **\$LC_MESSAGES** is "C".

User Response: Verify and correct (if necessary) **\$LC_MESSAGES** (or **\$LANG**). Verify existence of message catalog in required location.

2501-121 **You specified incorrect arguments.**
Usage: procedure [-f *aclfile*].

Explanation: You specified incorrect arguments on one of the built in Sysctl procedures for ACL management (**acllist** or **acldestroy**).

User Response: Enter the command again, correctly specifying the number of arguments.

2501-122 *procedure:* **Insufficient authorization.**

Explanation: The user is not authorized to issue the command.

User Response: Check whether you have the necessary credentials. Check with the owner of the procedure to see whether you should be authorized.

2501-123 **You specified incorrect arguments.**
Usage: procedure -cmd|class|-var objName callBack.

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Enter the command again specifying the correct number of arguments.

2501-124 *procedure* **Unknown** *object_type: name.*

Explanation: The user has attempted to set the authorization of an unknown object.

User Response: Check spelling of object name. If necessary, first create the object.

2501-125 *procedure* **No authorization callback exists for** *object_type object_name.*

Explanation: The **getauth** procedure did not find an authorization callback defined for the object.

User Response: Verify that your arguments are correct. If incorrect, enter your request again, correctly specifying the arguments.

2501-126 *procedure* **principal name is too long:**
principal name

Explanation: You incorrectly specified a principal name on one of the the built-in Sysctl procedures for ACL management (**aclcreate**, **aclrecreate**, **acladd**, or **acldelete**). The principal name shown was entered with the **—p** or **—n** option but is too long to be a valid principal name.

User Response: Enter your request again, correctly specifying the principal name.

2501-127 *procedure* **principal name has wrong format:** *principal name*

Explanation: You incorrectly specified a principal name on one of the built-in Sysctl procedures for ACL management (**aclcreate**, **aclrecreate**, **acladd**, or **acldelete**). The principal name shown was entered with the **—p** or **—n** option but either is missing required elements or contains one or more characters that are not valid.

User Response: Enter your request again, correctly specifying the principal name.

2501-128 **You specified incorrect arguments:**
Usage: procedure -cmd|class|-var objName.

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Enter the command again specifying the correct number of arguments.

2501-129 *procedure* **object_type name: object name is not valid.**

Explanation: The user has specified an object which has not been defined.

User Response: Check the spelling of the object name. Check that the object has been defined in the configuration file.

2501-130 *procedure:* **duplicate ACL entries specified for principal:** *principal name.*

Explanation: You specified a principal name more than once on one of the built in Sysctl procedures for ACL management (**aclcreate**, **aclrecreate**, **acladd**, or **acldelete**). The principal name shown was entered with the **—p** or **—n** option. You may have omitted a principal that you intended to include in the list.

User Response: Enter your request again, specifying each principal name only once.

2501-131 *procedure* **Authorization denied for object** *object_name*.

Explanation: The user is not authorized to access the specified object.

User Response: The user must gain the necessary authorization to issue this command.

2501-132 **Wrong # args: should be** *procedure -cmd|-class|-var objName*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Enter the command again specifying the correct number of arguments.

2501-133 *procedure* **Conflicting ACL entries specified for principal name.**

Explanation: You specified the same principal name following both the `—p` and `—n` options on one of the built in Sysctl procedures for ACL management (`aclcreate`, `aclrecreate`, `acladd`, or `acldelete`). You may not allow and disallow access to the same principal.

User Response: Enter the command again specifying each principal name with either `—p` or `—n`, but not both.

2501-134 *procedure* **Principal *principal name* already has an entry with conflicting permissions.**

Explanation: You specified the addition of a principal to an ACL file, but it already has an entry with that indicates a permission that contradicts the permission granted or denied by the new entry.

User Response: Enter the command again specifying the arguments correctly.

2501-135 *procedure* **Authorization denied.**

Explanation: The user is not authorized to issue the command.

User Response: None or arrange for proper authorization.

2501-136 *procedure* **Error opening file:** *ACL filename: error text.*

Explanation: The Sysctl server was unable to open the ACL file required to authorize the request.

User Response: Take action according to the error condition indicated by the error text. If the error continues, contact the IBM Support Center.

2501-137 **You specified incorrect arguments.**
Usage: *procedure name [aclfile].*

Explanation: The ACL callback was incorrectly specified.

User Response: Correct the callback definition for the object being accessed, and enter the command again.

2501-138 *procedure* **Error unlinking file** *ACL filename: error text.*

Explanation: The Sysctl server was unable to unlink the ACL file.

User Response: Take action according to the error condition indicated by the error text. If the error continues, contact the IBM Support Center.

2501-139 **Authorization denied.**

Explanation: The user is not authorized to issue the command.

User Response: None or arrange for proper authentication and authorization.

2501-140 **Authorization denied.**

Explanation: The user is not authorized to issue the command.

User Response: None or arrange for proper authentication and authorization.

2501-141 *procedure* **Error writing file** *ACL filename: error text.*

Explanation: The Sysctl server was unable to write the ACL file.

User Response: Take action according to the error condition indicated by the error text. If the problem continues, contact the IBM Support Center.

2501-142 **Wrong # args: should be** *procedure*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-143 *procedure* **Error renaming file** *ACL filename: error text.*

Explanation: The Sysctl server was unable to rename the ACL file.

User Response: Take action according to the error condition indicated by error text. If the error continues, contact the IBM Support Center.

2501-144 You specified incorrect arguments.
Usage: *procedure fileId1 fileId2.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-145 You specified incorrect arguments.
Usage: *procedure message text.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-146 *procedure* **Could not detach from server: error_code.**

Explanation: The fork() system call did not succeed in the Sysctl server.

User Response: Examine the error code.

2501-147 You specified incorrect arguments.
Usage: *procedure file.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-148 You specified incorrect arguments.
Usage: *procedure type name args...*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-149 *procedure object name* **is not a valid type.**

Explanation: An object name which is not valid was specified for the **create** command.

User Response: Correct the command to specify a valid object.

2501-150 You specified incorrect arguments.
Usage: *procedure var varName varValue varAuth.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-151 You specified incorrect arguments.
Usage: *procedure proc procName procArgs procAuth procBody.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-152 You specified incorrect arguments.
Usage: *procedure class className classFile [classAuth].*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-153 *procedure* **Could not read file filename: error_type.**

Explanation: Sysctl server did not succeed in reading in the specified class file.

User Response: Check the spelling of the file name. Create the file if necessary.

2501-154 *procedure* **Could not stat file file name: error_type.**

Explanation: Sysctl server could not *stat* the specified class file.

User Response: Check the error returned from the **fstat()** system call.

2501-155 **Host IP address has a format that is not valid.**

Explanation: You specified an improperly formed IP address to designate a target host.

User Response: Enter the command again, specifying a correctly formed IP address or hostname.

2501-156 *procedure file name, [error line]: interpreter result*

Explanation: An error occurred in the processing of the contents of the class file.

User Response: Correct the error in the class file.

2501-157 You specified incorrect arguments.
Usage: *create cmd auth yes/no shellCmd.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-158 **You specified incorrect arguments.**
Usage: *static proc name args body.*

Explanation: You incorrectly entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-159 **You specified incorrect arguments.**
Usage *procedure [-f file] objtype objName args...*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-160 **You specified incorrect arguments.**
Usage: *procedure [-f file] objtype objName.*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-161 *procedure* **Could not open file:** *file name: error_type.*

Explanation: The procedure could not open the indicated configuration file.

User Response: Check the filename and permissions, or other conditions as indicated by the error text.

2501-162 *procedure* **Cannot create new configuration file:** *error_type.*

Explanation: The procedure could not create a new configuration file.

User Response: Check the directory permissions, or other conditions as indicated by the error text.

2501-163 *procedure* **Cannot write new configuration file:** *error_type.*

Explanation: The procedure could not write to a configuration file.

User Response: Check the file permissions, or other conditions as indicated by the error text.

2501-164 *procedure* **Cannot install new configuration file:** *error_type.*

Explanation: The procedure could not install a configuration file.

User Response: Check the directory permissions or other conditions as indicated by the error text.

2501-165 *procedure:* **Override of initialization procedure not supported on this architecture.**

Explanation: This procedure does not accept an alternate entry point for the shared library.

User Response: Enter your request again without the entry point name.

2501-166 **You specified incorrect arguments.**
Usage: *procedure filename.*

Explanation: The user has entered incorrect arguments to the specified command.

User Response: Correct the command with the proper number of arguments.

2501-167 *procedure* **Library: file name was already loaded and could not be unloaded.**

Explanation: The procedure did not succeed because the library is being used and could not be reloaded.

User Response: Terminate any processes using the shared library and enter your request again.

2501-168 *procedure* **Could not load library file** *name: error_type.*

Explanation: The procedure could not load the specified shared library file.

User Response: Check the condition indicated by the error message and correct it. Enter your request again.

2501-169 *procedure* **Could not run loadbind:** *error_type.*

Explanation: The procedure could not complete symbol resolution on the shared library that was loaded.

User Response: Follow normal problem reporting procedures.

2501-170 *procedure* **Initialization procedure did not succeed for library** *file name.*

Explanation: The initialization procedure for the shared library did not succeed.

User Response: Follow normal problem reporting procedures.

2501-171 **You specified incorrect arguments.**
Usage: *procedure file name [initProc].*

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-172 *procedure* **Invalid shared library name format: file name.**

Explanation: The format of the specified shared library name is incorrect.

User Response: Correct the name format.

2501-173 **Library: file name was already loaded and could not be unloaded.**

Explanation: The specified shared file was already loaded and the attempt to unload it was not successful.

User Response: None.

2501-174 **Could not load library file name: error_type.**

Explanation: The attempt to load the specified shared library was not successful.

User Response: Check the error type.

2501-175 *procedure* **Error initializing shared library file name: error_type.**

Explanation: An internal error occurred initializing a shared library.

User Response: Check the error type.

2501-176 **Initialization procedure for library file name failed.**

Explanation: The shared library initialization routine was not successful.

User Response: None.

2501-177 **Wrong # args: should be procedure file name [initProc].**

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-178 **Invalid library name format: file name.**

Explanation: The format of the specified shared library name is incorrect.

User Response: Correct the name format and reenter the command.

2501-179 **Library: file name was already loaded and could not be unloaded.**

Explanation: The specified shared library file was already loaded and the attempt to unload it was not successful.

User Response:

2501-180 **Could not load library: file name: error_type.**

Explanation: The attempt to load the specified shared library was not successful.

User Response: Check the error type.

2501-181 **Error initializing shared library file name: error_type.**

Explanation: The shared library initialization routine was not successful.

User Response: Check the error type.

2501-182 **Initialization procedure for library file name failed.**

Explanation: The shared library initialization routine did not succeed.

User Response: None

2501-183 **You specified incorrect arguments. Usage: procedure [file name | all].**

Explanation: The user has entered the wrong number of arguments to the specified command.

User Response: Reenter the command with the correct number of arguments.

2501-184 *procedure* **Library file name is not loaded.**

Explanation: The specified shared library could not be unloaded because it is not loaded.

User Response: Check the file name; reissue if necessary.

2501-185 *procedure* **Could not unload library file name: error_type.**

Explanation: The attempt to unload the specified shared library did not succeed.

User Response: Check the error type.

2501-186 **The value is not valid for the option option. value will be used.**

Explanation: You specified a value that is not valid for the option shown. The value used by the command is shown.

User Response: Enter your request again, if desired, using a different value.

2501-187 **The `—q` option is not valid in interactive mode. It will be ignored.**

Explanation: You specified the `—q` option when starting `sysctl` in interactive mode. That option only applies to non-interactive mode. The command continues.

User Response: None.

2501-188 **You specified the `—v` option, which overrides all other options and operands.**

Explanation: When you specify the `—v` option, the command displays its version number and exits. You also specified a command to execute or a file to replay, which was ignored.

User Response: None.

2501-189 **File *filename* specified with the `option` option is not a valid pathname.**

Explanation: The filename option specified with either `—l`, `—f`, or `—k` does not exist. The `sysctld` server cannot be started.

User Response: Use the `chssys` command to correct the specification of the option in the subsystem definition and then enter the `startsrc` command again.

2501-190 **File *filename* does not exist. The default file will be used.**

Explanation: The indicated file cannot be set as the LOG, KEY, or ACL variable by `Sysctl` configuration. The default filename will be used.

User Response: Create the file, if it is missing or correct the configuration file if the file is incorrectly specified on the `set` command. Enter the `startsrc` command again to restart `sysctld`.

2501-191 **Command procedure requires DCE to be configured.**

Explanation: You can use this command only when the system is configured to use DCE for authentication by SP trusted services.

User Response: If you expect to use DCE for authentication, perform the configuration tasks described in the Administration Guide. Then, enter the command again.

2501-192 *procedure spsec_list_object_acls did not succeed: error text*

Explanation: The command could not obtain the list of defined object-acls from the DCE ACL manager for the reason indicated by the error text.

User Response: See the recommended action in the error text information. If you cannot resolve the problem, contact the IBM Support Center.

2501-193 **You specified incorrect arguments. Usage: *procedure* [`—v`].**

Explanation: You incorrectly specified the argument for this procedure.

User Response: Enter your request again, correctly specifying the arguments as shown.

2501-194 *procedure* **The `—p` and `—n` options are not valid because Kerberos V4 has not been configured.**

Explanation: File `/etc/krb-srvtab` does not exist. Kerberos Version 4 authentication capability has not been configured on this `Sysctl` server host. Therefore, you may not specify the `—p` or `—n` option on this procedure.

User Response: None.

2501-195 *procedure* **The ACL file is not a regular file.**

Explanation: You specified an ACL pathname that is not the name of a regular file, such as a directory pathname.

User Response: Correct the ACL specification and reissue the command. If the pathname is incorrectly specified in a `sysctl` configuration file, correct the file and restart the `sysctl` server.

2501-196 *procedure: the ACL name has a format that is not valid.*

Explanation: You specified an ACL name that is not an absolute pathname, or you specified a pathname that contains either `"/./"` or `"/./."` elements.

User Response: Correct the ACL specification and reissue the command.

2501-197 *procedure: the ACL file does not exist.*

Explanation: You specified an ACL pathname of a non-existent file.

User Response: Correct the ACL specification and reissue the command.

2501-198 **Incomplete Tcl expression.**

Explanation: The `sysctl` procedure you executed contains an incomplete Tcl expression.

User Response: If you entered the incomplete expression on the command line, reissue your request using a complete expression. If the Tcl expression is in

a sysctl configuration file, correct the file and restart the sysctl server.

Chapter 20. 2502 - Authentication messages

2502-000 **kdestroy: No tickets to destroy.**

Explanation: You issued the command when there was no ticket cache file. Perhaps the **KRBTKFILE** environment variable is set to the name of a nonexistent file.

User Response: Check the setting of the environment variable.

2502-001 **kdestroy: Tickets NOT destroyed.**

Explanation: An error occurred when the command tried to delete the ticket cache file.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2502-002 **kinit: k_gethostname did not succeed.**

Explanation: The command was unable to get the systems hostname.

User Response: Check that the system hostname is properly set by issuing the **hostname** command. If it is returned correctly, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2502-003 **kinit: Incorrect Kerberos V4 name format.**

Explanation: The principal name you entered was longer than 40 characters or contained the characters `'` or `@`.

User Response: Reissue the command, entering a valid name when prompted.

2502-004 **kinit: Incorrect Kerberos V4 instance format.**

Explanation: The instance name you entered was longer than 40 characters or contained the characters `'` or `@`.

User Response: Reissue the command, entering a valid instance when prompted. Press the **Enter** key to enter a null instance name.

2502-005 **kinit: Incorrect Kerberos V4 realm format.**

Explanation: The realm name you entered was longer than 40 characters or contained the `'@` character.

User Response: Reissue the command, entering a valid realm name when prompted.

2502-006 **kinit: krb_get_irealm did not succeed.**

Explanation: The command was unable to identify the local realm.

User Response: Check that the first line of the **/etc/krb.conf** file contains the local realm name. If the file is missing or incorrect, fix it. If not, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2502-007 **klist: Can't find realm of ticket file: file name**

Explanation: The realm name of the principal who holds the tickets in the ticket cache file being listed cannot be found in the ticket file. The file is probably corrupted, or **KRBTKFILE** is set to the name of a file that is not a ticket cache file.

User Response: You will probably have to reissue the **kinit** command to establish a valid ticket.

2502-008 **File error file name error_message**

Explanation: The server key file could not be opened. To list the contents of the default key file, you must be the **root** user.

User Response: Take whatever action is appropriate for the specific error indicated by the *error-text*.

2502-009 **klist: Error reading from key file: error-text**

Explanation: The **read** system call returned an error, when the command tried to obtain the service key information.

User Response: Take whatever action is appropriate for the specific error indicated by the *error-text*.

2502-010 **klist: Key file truncated.**

Explanation: Attempting to list the service keys in a server key file, the data was found to be incomplete.

User Response: Check that the file specified is a service key file. Try the **ksrvutil list** command as an alternative. If it works, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2502-013 **kpasswd: Incorrect name: principal-name**

Explanation: You entered a nonexistent principal name in reply to a prompt.

User Response: Reissue the command, and enter a correct principal when prompted.

2502-014 kpasswd: Incorrect instance:
instance-name

Explanation: You entered a nonexistent instance name in reply to a prompt.

User Response: Reissue the command, and enter a correct instance when prompted.

2502-015 kpasswd: Incorrect realm: *realm-name*

Explanation: You entered a nonexistent realm name in reply to a prompt.

User Response: Reissue the command, and enter a correct realm when prompted.

2502-016 kpasswd: Password NOT changed.

Explanation: An error occurred in attempting to change the password. See the preceding error message for more detailed information.

User Response: None

2502-017 kpasswd: Error reading old password.

Explanation: The command could not read the old password from stdin. Perhaps you cancelled the input using Ctrl-C.

User Response: Reissue the command if you wish to try again.

2502-018 kpasswd: Error reading new password; password unchanged.

Explanation: The command could not read the new password from stdin. Perhaps you cancelled the input using Ctrl-C.

User Response: Reissue the command if you wish to try again.

2502-019 ksrvutil: Error reading password.

Explanation: The command could not read the password from stdin. Perhaps you cancelled the input using Ctrl-C.

User Response: Reissue the command if you wish to try again.

2502-020 ksrvutil: Unable to create *file name*
error-text

Explanation: The system returned the indicated error when the command tried to create a server key file or a temporary work file.

User Response: Take action appropriate to the specific error indicated.

2502-021 ksrvutil: Error reading *file name*
error-text

Explanation: The system returned the indicated error when the command tried to read a file.

User Response: Take action appropriate to the specific error indicated.

2502-022 ksrvutil: Error writing *file name*
error-text

Explanation: The system returned the indicated error when the command tried to write the file.

User Response: Take action appropriate to the specific error indicated.

2502-023 ksrvutil: Error closing *file name*
error-text

Explanation: The system returned the indicated error when the command tried to close a file. Perhaps there is a file system space problem.

User Response: Take action appropriate to the specific error indicated.

2502-024 ksrvutil: Unable to open *file name* for
append: *error-text*

Explanation: The system returned the indicated error when the command tried to append to a server key file or a temporary work file.

User Response: Take action appropriate to the specific error indicated.

2502-025 ksrvutil: Unable to revert keyfile: *file*
name

Explanation: The command tried to restore the backup copy of the server key file after a failure, but could not.

User Response: Follow the procedures for recreating the server key file.

2502-026 ksrvutil: Error renaming *workfile* to
keyfile: error-text

Explanation: The system returned the indicated error when the command tried to rename a file.

User Response: Take action appropriate to the specific error indicated.

2502-027 **ksrvutil: In-progress srvtab in this file.**

Explanation: You attempted to update a server key file while it was locked by another process.

User Response: Wait until other updates are done, then reissue the command.

2502-028 **add_principal: Cannot obtain local realm name, use the -r option.**

Explanation: The command could not read the local realm name from the authentication configuration file: */etc/krb.conf*.

User Response: You can circumvent the problem by reissuing the command with the *-r realm* option to explicitly name the local realm. However, you should also fix the file to prevent further authentication problems.

2502-029 **add_principal: Userid is not in the system password file.**

Explanation: The `getpwuid()` system call was unable to return your user login name to the command.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2502-030 **add_principal: Cannot get an admin ticket and the -n option was specified**

Explanation: You specified with the *-n* flag on the command, that you want to use an existing ticket-granting-ticket for an admin principal, rather than have the command prompt you for a password. No such ticket, could be found.

User Response: Issue the `k4list` command to check your tickets. Perhaps you need to set the `KRBTKFILE` environment variable to point to an existing ticket cache file. If no ticket cache file exists, issue the `kinit` command to identify yourself using an admin principal name,

2502-031 **add_principal: Cannot read admin password.**

Explanation: The command was unable to read the admin password from `stdin`. When an a ticket does not already exist, and when you do not specify the *-n* flag on the command-line, `add_principal` prompts you for the password for the principal named *your-login-name.admin*

User Response: Enter the correct password when prompted.

2502-032 **add_principal: Principal *your-login-name.admin@realm-name* does not exist.**

Explanation: You attempted to add principals to the authentication database, but you are not defined as an administrator of the database.

User Response: Have an authorized authentication database administrator perform this task, or define an `admin` principal for you.

2502-033 **add_principal: Incorrect admin password.**

Explanation: The password you entered in reply to the prompt was incorrect.

User Response: Retry the command; enter your correct admin authentication password.

2502-034 **add_principal: The file *file name* does not exist**

Explanation: You probably misspelled the name of the input file.

User Response: Reissue the command with the correct name.

2502-035 **add_principal: Insufficient access to read file *file name***

Explanation: You do not have read access to the input file you named. It could be the wrong file or you are not authorized to access it.

User Response: Reissue the command with the correct file name, if wrong. Otherwise, have the file owner authorize you to access it.

2502-036 **add_principal: Error opening file *file name***

Explanation: The command could not open the input file you specified to read the principal names and passwords.

User Response: Retry the command with the correct file.

2502-037 **add_principal: *principal-name* already exists in database.**

Explanation: The input file you used contained the name of an already-defined principal. The request to add it again is ignored.

User Response: None.

2502-038 **add_principal: *principal-name* not added to database, error setting password**

Explanation: The authentication database administration server could not set the password for the principal. You may not be properly authorized in the administration servers access control list.

In order to add principals, your an entry of the form *your-login-name.admin* must be in the file `/var/kerberos/database/admin_acl.add` on the primary server.

User Response: Check the access control list for a missing or misspelled entry. If wrong, correct it and reissue the failing command.

2502-039 **add_principal: *principal-name* not added, realm name cannot be changed.**

Explanation: The realm name you specified with the `-r` option, or the local realm name if you omitted the option, is different than a realm name that is included explicitly in the name of a principal to be added. The command can add principals to only one realm at a time.

User Response: Correct the realm name, if it is incorrectly specified on the command line or in the file. If you need to add principals to different realms, create separate files and issue the `add_principal` command once for each realm.

2502-040 **add_principal: Null passwords are not allowed**

Explanation: The command found an principal listed in the input file without a password.

User Response: Each principal to be added must be assigned an initial password. Correct the input file and reissue the command.

2502-041 **You aren't in the password file. Who are you?**

Explanation: The command could not verify your identity as an AIX user.

User Response: Check for corrupted system files.

2502-042 **Error reading admin password.**

Explanation: The command was unable to read your admin password from stdin.

User Response: Report this as a system problem through your local problem reporting procedures.

2502-043 **Error reading password; password unchanged.**

Explanation: The command was unable to read the new password from stdin.

User Response: Report this as a system problem through your local problem reporting procedures.

2502-044 **Principal *principal* does not exist.**

Explanation: The principal name you specified was not found in the authentication database. You may have incorrectly specified the name.

User Response: If you misspelled the principal or realm, retry the command. Otherwise, use the `kdb_util` dump command to determine the content of the database.

2502-045 **Error reading password; *principal* not added.**

Explanation: The command was unable to read the new password from stdin.

User Response: Report this as a system problem through your local problem reporting procedures.

2502-046 **Principal already exists.**

Explanation: The principal name you specified is already in the authentication database. You may have incorrectly specified the principal or realm.

User Response: If you misspelled the principal or realm, retry the command. Otherwise, use the `kdb_util` dump command to determine the content of the database.

2502-047 **Incorrect admin password.**

Explanation: You specified the wrong password for your admin instance.

User Response: Retry the command, entering the correct password when prompted.

2502-048 **Unable to obtain the authentication mechanism on local host.**

Explanation: The authentication method for this host could not be found.

User Response: Record the above information and contact the IBM Support Center.

2502-050 **Unable to obtain local hostname.**

Explanation: The system returned an error when the command tried to get the local hostname.

User Response: Record the above information and contact the IBM Support Center.

2502-051 Unable to obtain name of local realm.

Explanation: The command was unable to identify the local realm.

User Response: Check that the first line of the `/etc/krb.conf` file contains the local realm name. If the file is missing or in error, correct it. If not, record the above information and contact the IBM Support Center.

2502-052 Error getting service ticket for rcmd: *error-string*.

Explanation: Kerberos reported the error stated in the message.

User Response: See the information for the specified Kerberos error message.

2502-053 Error reading stdin: *error-string*.

Explanation: The command could not read from stdin. Perhaps you cancelled the input using **Ctrl —C**.

User Response: Enter the command again.

2502-054 The KRBTKFILE environment variable was not set prior to issuing this command.

Explanation: `rcmdtgt` and `ksrvtgt` are intended for use by scripts running in the background as root, such as at boot time, under the `Sysctl` daemon, or as a cron job. They must not inadvertently destroy the root user's default K4 credential cache. One of the following applies:

- There is a programming error in an IBM-supplied script.
- There is a programming error in a customer-supplied script.
- You issued the command interactively without setting the variable.

User Response: For a programming error, follow normal problem reporting procedures. Otherwise, set `KRBTKFILE` to the pathname of an alternate ticket cache file and enter the command again.

2502-600 An error occurred getting a hostname: *error-text*.

Explanation: A `gethostbyname` or `gethostbyaddr` system call was not successful.

User Response: Follow normal problem reporting procedures.

2502-601 No DCE security server is available.

Explanation: The DCE security server could not be contacted because it terminated abnormally or has been shut down by the administrator.

User Response: Check with the system administrator, who must restart a DCE security server in order for you to complete the original request. If you cannot resolve the problem, follow normal problem reporting procedures.

2502-602 Your DCE login context has expired.

Explanation: Your request was denied access by a server, and you have an expired DCE login context, so it is impossible for the client to obtain DCE credentials. Authorization may have been denied because no valid DCE credentials were provided by the client.

User Response: Check the access control policy on the server that denied the request, to see if you would have been allowed access with valid DCE credentials. If so, you must use `dce_login` before retrying the request. If you cannot resolve the problem, follow normal problem reporting procedures.

2502-603 You do not have *authentication-method* credentials.

Explanation: Your request was denied access by a server, and you have not logged into DCE or Kerberos V4, so the client cannot obtain the specified credentials. Authorization may have been denied because no valid credentials were provided by the client.

User Response: Check the access control policy on the server that denied the request to see if you would have been allowed access with valid credentials. If so, you must use `dce_login` or `k4init` before retrying the request. If you cannot resolve the problem, follow normal problem reporting procedures.

2502-604 Unable to determine the active authentication methods.

Explanation: This information could not be read from file `/spdata/sys1/spsec/auth_methods`. This is probably a system error.

User Response: Follow normal problem reporting procedures.

2502-605 Your *authentication-method* credentials have expired.

Explanation: Your request was denied access by a server, and you have DCE or Kerberos V4 credentials that have expired. Authorization may have been denied because no valid credentials were provided by the client.

User Response: Check the access control policy on

the server that denied the request to see if you would have been allowed access with current credentials. If so, you must use **dce_login** or **k4init** before retrying the request. If you cannot resolve the problem, follow normal problem reporting procedures.

2502-606 DCE error in DCE-function : error string.

Explanation: A DCE function returned an error.

User Response: If you cannot resolve the problem, follow normal problem reporting procedures.

2502-607 GSSAPI error in GSSAPI-function : error string.

Explanation: The DCE GSSAPI function returned an error.

User Response: If you cannot resolve the problem, follow normal problem reporting procedures.

2502-608 Kerberos V4 error in Kerberos-function : error-string.

Explanation: The Kerberos V4 function returned an error.

User Response: If you cannot resolve the problem, follow normal problem reporting procedures.

2502-609 A specified object was not found in the ACL database: object name.

Explanation: A request was made to security services to locate an object that does not exist. There may be a programming error in the calling program..

User Response: If the object name was specified as a command operand by a user, verify that it was entered correctly. If incorrect, retry the request using the correct name. Otherwise, follow normal problem reporting procedures.

2502-610 The server's login context cannot be validated.

Explanation: The login context was validated by local data rather than the security server.

User Response: Verify that the security server is functioning properly, and try the request again. If you cannot resolve the problem, follow normal problem reporting procedures.

2502-611 An argument is missing or not valid.

Explanation: A request was made to security services with missing or incorrect arguments. There is a programming error in the calling program.

User Response: Record the above information and contact the IBM Support Center.

2502-612 DCE is not running on this host.

Explanation: The command was not successful because DCE is not running.

User Response: Check with your system administrator.

2502-613 Out of memory.

Explanation: The function could not complete because the process is out of memory.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-614 A server may not delete its initial object.

Explanation: The function could not complete because the object specified for deletion is the server's initial object, which is not allowed. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-615 The object specified as containing the new object is not a container: container name.

Explanation: A security services request to create an object specified a container object that is not valid. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-616 A specified pathname is not valid. pathname.

Explanation: A security services function was requested using a pathname that is not valid. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-617 An ACL manager is required, but none was started.

Explanation: A server invoked a Security Services ACL management function without initiating ACL management. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-618 **The required keyfile was not found:**
keyfile — pathname.

Explanation: The keyfile containing the key for a trusted service was not found. Either it was removed, or the configuration task to create the keyfile was not successful or was never performed.

User Response:

2502-619 **A security context is required but none exists.**

Explanation: A security services function was requested without first establishing a DCE security context between client and server. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-620 **The security services environment is damaged.**

Explanation: A security services function cannot proceed because the state information for the process is no longer valid. There is an internal programming error in the calling program.

User Response: Record the above information and contact the IBM Support Center.

2502-621 **An ioctl system call was not successful:** *error-text* .

Explanation: A security services function failed, because an AIX **ioctl** system call failed.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-622 **A specified permission set was not valid.**

Explanation: A security services function failed, because the permission set specified for an ACL-object was not valid. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures.

2502-623 **A specified DCE group does not exist.***group.*

Explanation: A security services function was requested using a group name that is not valid. There is a programming error in the calling program or in the configuration files.

User Response: If you cannot resolve the problem, follow normal problem reporting procedures.

2502-624 **A security services configuration file contains erroneous data.***filename — line number*

Explanation: The **spsec_defaults** file may have been overwritten, or incorrect information was placed into the **spsec_overrides** file.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-625 **A specified service name does not exist.** *service.*

Explanation: A Security Services function was requested using a service name that is not valid. There is a programming error in the calling program or the **spsec_defaults** file contains data that is not valid.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-626 **A security services environment is required but none exists.**

Explanation: A security Services function was requested without first establishing a security services environment. There is a programming error in the calling program.

User Response: Follow normal problem reporting procedures..

2502-627 **The object to be created already exists.**
object.

Explanation: A request was made to security services to create an object that already exists. There may be a programming error in the calling program.

User Response: If the object name was specified as a command operand by a user, verify that it was correctly entered. If not, retry the request using the correct name. If so, follow normal problem reporting procedures.

2502-628 **A socket system call was unsuccessful:** *error-text* .

Explanation: A security services function failed, because an AIX **socket** system call failed.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-629 **The server's ACL database is damaged.**

Explanation: The DCE ACL database files do not contain valid data. Some outside environmental factor may have caused the files to be overwritten or a

programming error may have occurred.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-630 **Could not obtain SDR data:**
SDR-function: error text.

Explanation: The Syspar object could not be read for a system partition. Check the integrity of the SDR files.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-631 **The client credentials do not support delegation.**

Explanation: The credentials passed by the client cannot be delegated.

User Response: If you cannot resolve the problem, record the above information and contact the IBM Support Center.

2502-632 **You specified *value* more than once.**

Explanation: This command flag or operand may only be specified once.

User Response: Enter the command again using the correct syntax.

2502-633 **The specified partition does not exist.**

Explanation: A security services function could not complete because the partition was not correctly specified, either as an argument or using the SP_NAME environment variable.

User Response: Check SP_NAME and correct it if it is wrong. If you cannot resolve the problem, contact the IBM Support Center.

2502-634 **You specified the authentication methods in an incorrect order.**

Explanation: The authentication methods you specified must be entered in a required order. See the usage statement and the man page for an explanation of the restrictions in the use of *program name*.

User Response: Enter the command again using the correct syntax.

2502-635 **You specified the wrong number of command operands.**

Explanation: You specified an incorrect number of operands that are valid for this command. See the usage statement.

User Response: Enter the command again using the correct syntax.

2502-636 **A specified DCE principal does not exist.** *principal.*

Explanation: A security services function was requested using a DCE principal name that is not valid. There is an internal programming error in the calling program or the user supplied an incorrect name.

User Response: If the error resulted because you supplied an incorrect name, retry the request using the correct name. Otherwise, record the above information and contact the IBM Support Center.

2502-637 **You are not authorized to use this command.**

Explanation: You must be root to change the active authentication methods.

User Response: None.

2502-638 *method is not a valid trusted services authentication method.*

Explanation: You specified a command operand that is not a valid authentication method.

User Response: Enter the command again using the correct syntax.

2502-639 *subroutine was unsuccessful on file filepath. error text.*

Explanation: The program was unable to access the authentication method setting. The indicated system function was not successful. See the error text for more information.

User Response: Contact the IBM Support Center.

2502-640 **File *filename* does not contain valid data.**

Explanation: The program could not determine the active authentication methods because the data obtained from the file is not in the correct format.

User Response: Issue the **lsauthpts** command to determine the correct setting, then issue the **chauthts** command to store valid data in the file. If you cannot resolve the problem, contact the IBM Support Center.

2502-641 *command is not valid because required software is not installed and configured on this host.*

Explanation: The command was not successful because the required software support for the method is not installed on this host. In order to activate DCE, you must have installed and configured DCE 2.2 for AIX. In

order to activate the compatibility method, you must have configured Kerberos Version 4.

User Response: Install and configure the required software and enter the command again.

2502-642 **The trusted services authentication methods have not been set on this host; use the chauthts or chauthpts command as appropriate.**

Explanation: The program was unable to access the authentication method setting stored in file **/spdata/sys1/spsec/auth_methods**. The file does not exist.

User Response: Use the **chauthpts** command, if you receive this message on an installed SP node or the control workstation. When installing the control workstation for a new SP system or on a stand-alone system, use the **chauthts** command.

Chapter 21. 2503 - Kerberos messages

2503-000 Could not read master key.

Explanation: The command attempted to read the Kerberos master key, but was unsuccessful. Some commands prompt you to enter the master key manually. Others attempt to read the cached master key from the *.k* file.

User Response: If you were prompted for the key, retry the command. If problem still occurs, follow local error reporting procedures. If the command could not get the key from the *.k* file, create that file again by issuing the **kstash** command.

2503-001 Could not get local realm.

Explanation: The local realm name is required. It could not be read from the */etc/krb.conf* file.

User Response: Check the **krb.conf** file for the local realm name in the first line. Fix the file using an editor or use remote copy or **ftp** to obtain a copy of the correct file from another host in your SP system.

2503-002 bind() error *error_text*

Explanation: The bind system call was not successful, attempting to bind the socket. Kerberos daemon command failed to initialize because it could not bind its socket to the port for the required service: for the kerberos daemon, the "kerberos4" service using **udp**; for **kadmind**, the "kerberos_master" service using **tcp**; or for **kproxd**, the "krb_prop" service using **tcp**. If these are not defined in the */etc/services* file, Kerberos uses ports 750, 751, and 754 respectively.

User Response: If you have other applications that use these default Kerberos 4 port numbers, select other unused port numbers between 0 and 1023, and add appropriate entries to the */etc/services* file.

2503-003 fork() error: *error_text*

Explanation: The Kerberos daemon command was unable to fork a child process. It may have had a problem initializing or may be unable to process a client request, once initialized.

User Response: The system probably has too many processes running, perhaps due to a spawning loop. Use the **ps** command to identify the runaway process and kill it. Then kill the Kerberos daemon process to allow **init** to spawn it again.

2503-004 accept() error: *error_text*

Explanation: The **kadmind** or **kproxd** daemon was unsuccessful initializing because the TCP/IP accept function had a problem. The error is explained further

by the error text in the message.

User Response: Take appropriate corrective action based on the particular error reported in the message. If the daemon cannot be started, contact the IBM Support Center.

2503-005 malloc() No memory.

Explanation: The command could not complete because the system could not allocate the necessary memory. Because small memory amounts are involved, there may be a memory leak that has critically affected system operation.

User Response: Contact the IBM Support Center.

2503-006 Incorrect flag: *flag*

Explanation: You issued the **kdb_edit** or **kprop** command using an option flag which was not valid.

User Response: Reissue the command using the proper syntax. If you have correctly followed the required syntax, contact the IBM Support Center.

2503-007 Could not open database: *error_text*

Explanation: The **kerberos** or **kadmind** daemon could not open the authentication database files. The particular error condition is further explained in the message text.

User Response: Take appropriate recovery action based on the particular error, killing the unsuccessful daemon if necessary and restarting. If the database is damaged or has been deleted, you will have to recreate it using the **setup_authent** command. If you are unable to recover, contact the IBM Support Center.

2503-008 open() error: *error_text*

Explanation: The command was unsuccessful because it must read or write this file, and it could not be opened. The message text includes more information about the particular problem encountered.

User Response: Take appropriate recovery action based on the particular error, then retry the command or kill and restart the daemon. If you are unable to recover, contact the IBM Support Center.

2503-009 Error on file *file name error_text*

Explanation: The command could not access a file due the reason indicated in the message text.

User Response: Take appropriate recovery action based on the particular error, then retry the command. If

you are unable to recover, contact the IBM Support Center.

2503-010 **gethostname() error:** *error_text*

Explanation: The **kerberos** daemon, the **kpropd** daemon, or the **kprop** command was unable to obtain from the AIX system the local hostname.

User Response: Retry the command. If you are unable to recover, contact the IBM Support Center.

2503-011 **getsockname() error:** *error_text*

Explanation: The **kprop** command or the **kpropd** daemon could not obtain from TCP/IP the tuple describing its socket connection to use in performing mutual authentication.

User Response: Retry the command. If you are unable to recover, contact the IBM Support Center.

2503-012 **getsockname() returned wrong length data.**

Explanation: The **kprop** command or the **kpropd** daemon obtained from TCP/IP socket information that had an incorrect length.

User Response: Retry the command. If you are unable to recover, contact the IBM Support Center.

2503-013 **fcntl() lock error:** *file name error_text*

Explanation: The **kprop** command or the **kpropd** daemon could not lock the authentication database. Additional details are displayed in the message text.

User Response: Retry the command. If you are unable to recover, contact the IBM Support Center.

2503-014 **fcntl() unlock error:** *file name error_text*

Explanation: The **kprop** command or the **kpropd** daemon could not unlock the authentication database. Additional details are displayed in the message text.

User Response: Retry the command. If you are unable to recover, contact the IBM Support Center.

2503-015 **write() error:** *file name error_text*

Explanation: The file could not be written, and further information is included in the text. If the command is **kpropd**, the file is the local copy of the encrypted database data received from the primary server. For **ext_srvtab**, the file is the name-new-srvtab file. For **kstash**, it is the **/k** master key cache file.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-016 **socket() error:** *error_text*

Explanation: The **kprop** command or one of the Kerberos daemons was unable to establish a socket interface. The particular error condition is noted in the text.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-017 **stat() error:** *file name error_text*

Explanation: The command was unsuccessful, because it could not obtain information about a required file. The particular error condition is noted in the text.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-018 **Option command-line is not valid.**

Explanation: The command was not successful, because the user entered an option that is not one of those that is valid for the command.

User Response: Enter the command with correct options, as shown in the usage message.

2503-019 **This system has no Kerberos V4 authentication database.**

Explanation: The command was not successful because this system is not an authentication server.

User Response: To perform the requested task, issue the command on a system that is an authentication server; locally as root, or through Sysctl.

2503-020 **You did not specify a principal name.**

Explanation: You must specify a principal that you want to change or remove.

User Response: Reenter your request, specifying the required argument.

2503-021 **You specified conflicting options or arguments.**

Explanation: You specified a combination of command-line options or options and arguments that conflict.

User Response: See the Usage statement. Enter the command again using the correct syntax.

2503-022 You specified an expiration date that is not valid.

Explanation: The command was not successful because you specified an expiration date that was in the wrong format or out of valid range.

User Response: Enter your command with the expiration date in the correct format.

2503-023 You specified a maximum ticket lifetime that is not valid.

Explanation: The command was not successful because you specified a maximum ticket lifetime that was not a decimal number between 0 and 255.

User Response: Enter your command with the maximum ticket lifetime within range.

2503-024 Option *command-option* requires an argument.

Explanation: You specified an option without the argument it requires following it.

User Response: See the Usage statement. Enter the command using the correct syntax.

2503-025 *klb-command* did not succeed.

Explanation: The command was not successful due to an error in the **kdb_edit** or **kdb_util** command. See the preceding message for additional information about the error condition.

User Response: Refer to information on the preceding error message.

2503-026 Unable to update database for principal *principal*.

Explanation: The requested Kerberos database update may be partially completed. Principals are processed in the order entered on the command line. Names preceding the one displayed were changed or added successfully.

User Response: Refer to information on preceding error messages. When the problem has been corrected, retry the unsuccessful command for principals not yet processed.

2503-027 Incorrect flag: *flag*

Explanation: You issued the **kdb_edit** command using an incorrect option flag.

User Response: Reissue the command using the proper syntax. If you have correctly followed the required syntax, contact the IBM Support Center.

2503-050 Incorrect instance name: *instance_name*.

Explanation: An instance name specified on the command line is syntactically incorrect. Instance names must be less than 40 characters and may not contain a '.' or '@' character.

User Response: If you entered the command from the command line, retry specifying a correct instance name. If the command was invoked by another PSSP administration command, follow local reporting procedures.

2503-051 Too many principals found for *instance_name*.

Explanation: The command found more than 40 principals defined in the authentication database with a single instance specified on the command line. The command is continuing to create a **srvtab** file containing the first 40 entries only.

User Response: Check that the instance names specified on the command are correct. If necessary, use the **kdb_util dump** command to inspect the database. Try the command again if an incorrect instance was used. If unsuccessful, or if the database appears to be incorrect, contact the IBM Support Center.

2503-100 Error reading data: *error_text*.

Explanation: The **kadmind** daemon encountered an error reading a request on the socket from a client program. The text indicates the nature of the problem.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-101 : error *error_text*

Explanation: An error occurred setting up the network interface or receiving an incoming request. The text explains the error condition.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-102 **select()** : *error_text*

Explanation: The **select** system call invoked by the **kadmind** daemon was not successful. The type of error is indicated by the error text.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-103 **setsockopt() keepalive : errno=errno.**

Explanation: The **kadmind** daemon was not successful while attempting to set up its network interface as indicated by the error message.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-104 **No service service_name instance**

Explanation: The **kadmind** daemon found that a required service was not defined in the authentication database. The required service was predefined when the authentication database was created. The database is corrupted, or the entry was inadvertently deleted instead of another.

User Response: If you have a backup of the database created with **kdb_util dump**, use that backup to rebuild it. Otherwise, recreate your authentication environment by running **setup_authent**.

2503-105 **Short read: expected_length vs length_read.**

Explanation: The request from the client read on the socket was the wrong length.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-106 **Error processing request: error_text.**

Explanation: The client request was passed to a processing routine which was not able to complete it successfully. The error text explains the error further.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-107 **Error writing data length: error_text.**

Explanation: A socket write was not successful, sending the output data length to the client. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-108 **Error writing data: error_text.**

Explanation: A socket write was not successful, sending the output data to the client. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-109 **Child pid termsig signal_number coredump dump retcode _code.**

Explanation: A child process terminated while processing a client request. The reason for the termination is indicated by the message.

User Response: Follow local reporting procedures.

2503-110 **Child pid not in list: termsig signal_number coredump dump retcode _code.**

Explanation: A program error occurred handling termination of a child process.

User Response: Follow local reporting procedures.

2503-111 **Error reading data length: error_text.**

Explanation: A socket read was not successful, reading the input data length from the client.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-112 **Read truncated data length: length.**

Explanation: A socket read was not successful, reading the input data from the client.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-150 **Pre-defined principals may not be removed.**

Explanation: You attempted to remove one of the four principals that were pre-defined by Kerberos for its internal use. This is not allowed.

User Response: Use the **chkp** command to change the attributes of any predefined principal.

2503-151 **No matching principal was found to remove.**

Explanation: No principals in the Kerberos database match the names you entered as arguments.

User Response: Check the spelling of the names you entered. Use the **lskp** command to review the current list of defined principals. Enter the command again.

2503-152 **Another process has updated the Kerberos V4 database. Retry this request.**

Explanation: While this request was executing, another root process, possibly the **kadmind** daemon, changed the database. This request is cancelled.

User Response: Use the **lskp** command to check the

database contents and retry your request, if it is still required.

2503-153 You did not specify any attribute to change.

Explanation: You did not include either a new expiration date or a new maximum ticket lifetime value for the selected principals.

User Response: If necessary, change the desired information.

2503-154 Principal *principal name* does not exist.

Explanation: You specified a principal that has not yet been defined in the Kerberos database. The principal is ignored and the command continues.

User Response: Check the spelling of the names you entered. Enter the command again if you intended to change a different principal.

2503-155 Principal *principal name* already exists.

Explanation: You specified a principal that has already been defined in the Kerberos database. The principal is ignored and the command continues.

User Response: Enter the command again if you meant to add a different principal.

2503-156 No principal was found to match argument *wild-card-argument*

Explanation: The command could not locate any principal in the Kerberos database that matches the argument shown. Processing of remaining arguments continues.

User Response: Check the spelling of the argument you entered. Enter the command again, if necessary.

2503-157 Wild-card arguments are not allowed.

Explanation: You used wild-card notation for principal selection, which is not allowed, because the command was invoked non-interactively.

User Response: If you want to remove multiple principals using "name." or ".instance notation, run the command without prompting suppressed. You cannot use wild-card notation when running this command through Sysctl.

2503-200 Database could not be deleted at file name: *error-text*.

Explanation: An **unlink** system call was not successful, attempting to delete the database files.

User Response: Retry the command. If problem persists, contact the IBM Support Center.

2503-300 Kerberos V4 error on default value lookup; *number_of_values* found.

Explanation: More than one entry was found in the authentication database for the default principal, containing default attribute values for **kdb_edit**. Perhaps an entry was inadvertently replicated when editing a database dump from **kdb_util dump**.

User Response: Delete all entries for a principal named default, except the one created at database creation. Load the database again using **kdb_util load**.

2503-301 The date is not valid.

Explanation: You entered an expiration date in the wrong format. The correct format was used to display the default value in brackets [].

User Response: Enter a date in the same format, or press enter to accept the default.

2503-302 The ticket lifetime is not valid; choose 0-255.

Explanation: You entered a ticket lifetime value that was not an integer between 0 and 255. For an explanation of how the possible integer values map to actual lifetime intervals, see *PSSP: Administration Guide*.

User Response: Enter a value from 0 to 255 that corresponds to the maximum lifetime you want this principal's tickets to remain valid.

2503-303 The attributes value is not valid; choose 0-65535.

Explanation: You entered a value outside the range allowed.

User Response: Select the default value. Attributes are unused.

2503-304 Error updating kerberos V4 database.

Explanation: The database could not be updated with your changes. Perhaps the **/var** file system is full.

User Response: Check for file system problems. If unable to correct the problem, contact the IBM Support Center.

2503-305 Wild-card names are not supported.

Explanation: You must specify a single principal by name and instance.

User Response: Enter the name or instance again you want to use, as required.

2503-306 **Signal caught, sig = *signal-number*, code = *error-code* old pc = *location*.**

Explanation: The command was terminated by a signal as indicated.

User Response: If the signal was not caused intentionally by user action, follow local problem reporting procedures.

2503-400 **Could not create database: *error_text*.**

Explanation: The authentication database could not be created. The error text indicates the reason for the error.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-401 **Could not read realm name.**

Explanation: An error prevented the program from reading the realm name from stdin.

User Response: Enter the command again. If unsuccessful, contact the IBM Support Center.

2503-402 **A realm name is required.**

Explanation: You did not enter a realm name as required.

User Response: Enter the command again and supply a realm name.

2503-403 ***realm_name* is not a valid realm name.**

Explanation: The realm name you entered contained a '@' character or was not less than 40 characters in length.

User Response: Enter the command again, supplying a properly formed realm name.

2503-404 **Could not initialize database.**

Explanation: The program could not add the predefined principals to the database.

User Response: Enter the command again. If unsuccessful, contact the IBM Support Center.

2503-500 ***operation* is not a valid operation.**

Explanation: The operation you requested is not one of:

- **load**
- **dump**
- **slave_dump**
- **new_master_key**

User Response: Enter the command again, specifying a correct operation.

2503-501 **Could not create temp database file name *error_text*.**

Explanation: A load request was not successful, because the new copy of the database could not be created. The error text indicates the reason for the problem. One possible cause is a full */var* file system.

User Response: Take appropriate action based on the condition reported. If unable to recover, follow local reporting procedures.

2503-502 **Could not store *name.instance*: *error-text*; load abended.**

Explanation: While loading entries from the ASCII dump file into the new database, the principal shown could not be added to the database. The text indicates the reason for the error. One possible cause is a full */var* file system.

User Response: Take appropriate action based on the condition reported. If unable to recover, contact the IBM Support Center.

2503-503 **Could not rename database: *error-text***

Explanation: The newly loaded database could not be renamed from its temporary name to the authentication database name.

User Response: Contact the IBM Support Center.

2503-504 **Could not get new master key.**

Explanation: When changing the master key, the command could not read the new key from stdin.

User Response: Enter the command again. If unsuccessful, contact the IBM Support Center.

2503-505 **Error on master key lookup; *number_of_matches* found.**

Explanation: More than one entry was found in the authentication database for the **M.K** principal, representing the master administrative role. Perhaps an entry was inadvertently replicated when editing a database dump from **kdb_util dump..**

User Response: Delete all entries for a principal named **M.K**, except one created by **db_creation..** Reload the database using **kdb_util load**.

2503-506 **The master key does not match the key in the database.**

Explanation: The old master key you entered from stdin or read from the */k* file is not the one in which the database is encrypted. Your database may have been corrupted or loaded from an old dump file. Or the */k* file could have been corrupted. You may have previously changed the master password but was unsuccessful to

store the new master key with **kstash**.

User Response: If you entered the wrong password, retry the command and enter it correctly. If you cannot reconcile a *.k* file and database that have different passwords, you will have to rebuild your authentication database using **setup_authent**.

2503-600 The pause interval must be between 5 and 3600 seconds.

Explanation: You modified the **inittab** entry from the **kerberos** daemon or started it from the command line, but entered a value which was not valid for the number of seconds the daemon will pause on termination.

User Response: Enter the command using a valid value or use the default.

2503-601 The maximum age must be from one hour to three days, in seconds

Explanation: You modified the **inittab** entry from the **kerberos** daemon or started it from the command line, but entered a value which was not valid for the number of seconds the daemon will have allowed since the last database update.

User Response: You should use this option only for secondary (slave) servers. Try the command again using a valid value or use the default. The default for secondary servers is one day.

2503-602 Principal *name.instance* expired at *expiration_time*.

Explanation: A service principal for which a ticket was requested has expired. Either the system clock is wrong, or the principal was created or modified to expire before the current time.

User Response: Check the system clock for an incorrect setting. Use **kdb_edit** to change the expiration date of the principal to a future date.

2503-603 **setsockopt (SO_REUSEADDR):
*error-text***

Explanation: The **setsockopt** request by the **kerberos** daemon was unsuccessful. The text indicates the reason for the problem.

User Response: Take appropriate action based on the condition reported. If unable to recover, contact the IBM Support Center.

2503-604 Cannot verify master key.

Explanation: The master key obtained from the *.k* file (or from stdin if you started the daemon from the command line with the **-m** flag) is not the one in which the database is encrypted.

Your database may have been corrupted or loaded from an old dump file. Or the *.k* file could have been corrupted. You may have previously changed the master password but failed to store the new master key with **kstash**.

User Response: If you entered the wrong password, retry the command and enter it correctly. If you cannot reconcile a *.k* file and database that have different passwords, rebuild your authentication database using **setup_authent**.

2503-605 Ticket granting ticket service unknown.

Explanation: No entry was found in the authentication database for the **krbtgt** service principal, representing the ticket-granting-service. Perhaps the entry was inadvertently deleted when editing a database dump from **kdb_util dump**.

User Response: Reload the database using **kdb_util load** if you have a valid backup dump file. If not, rebuild your authentication database using **setup_authent**.

**2503-606 Protocol version mismatch:
KRB=*version_expected*
request=*version_received*.**

Explanation: You are using a client executable, such as **k4init**, which was compiled using a different level of Kerberos than that used to compile the SP authentication server.

User Response: Change your PATH so the correct executable is used.

2503-607 Realm *realm_name* is unknown; host *hostname* request did not succeed.

Explanation: A client requested credentials for a realm that is not served by this authentication server. The most likely cause is an incorrect realm name in the client system's **/etc/krb.conf** file.

User Response: Copy the file from the primary server system to the client system and try the request again.

2503-608 Unknown message type: *message_type* from *hostname* port *port_number*.

Explanation: A client request contained an encoding of the request type which was not valid. The message indicates the source of the erroneous request. The message could reflect an attempt to spoof the authentication server, or the use of client software based on the wrong level of Kerberos.

User Response: Investigate the problem environment on the client side to determine the program that was executed, and take appropriate action.

2503-609 **The database is currently being updated.**

Explanation: The **kerberos** daemon attempted to check the age of the database, and found the age to be zero, indicating that the age cannot be determined. End the daemon and restart it after the update completes.

User Response: When **kprop** indicates completion of the update, kill the **kerberos** daemon to allow it to be respawned by **init** or restarted manually.

2503-610 **The database is out of date.**

Explanation: The database was found to be older than the allowed age limit. The **kerberos** daemon cannot be started until the next update takes place.

User Response: Force the primary to propagate the database by invoking the command **/usr/kerberos/etc/push-kprop**. When the update completes, kill the daemon to allow it to be respawned by **init** or restart it manually.

2503-611 **The database is unavailable.**

Explanation: The request could not be completed, because the principal could not be looked up in the database.

User Response: Retry the command. If unsuccessful, contact the IBM Support Center.

2503-612 **Principal *principal_name.instance* is unknown.**

Explanation: No entry was found in the authentication database for the application service principal, for which a ticket was requested. Perhaps the entry was inadvertently deleted when editing a database dump from **kdb_util** dump.

User Response: Load the database again using **kdb_util** load if you have a valid backup dump file. If not, you can use the **kadmin** and **ksrvutil** commands to create the missing principal again.

2503-613 **Principal *principal_name.instance* is not unique.**

Explanation: More than one entry was found in the authentication database for the service principal, for which a ticket was requested. Perhaps an entry was inadvertently replicated when editing a database dump from **kdb_util** dump.

User Response: Delete any duplicate entries for the principal, and reload the database using **kdb_util** load.

2503-614 **Principal *principal_name.instance* has a null key.**

Explanation: No key was found in the database for the named principal.

User Response: Follow local reporting procedures.

2503-615 **Wrong key version, KRB = *expected_version principal_name.instance* = *actual_version*.**

Explanation: The master key under which the principal's database entry was last modified or created is different than the current master key. The database is corrupted, at least with respect to this entry.

User Response: Delete the database entry for this principal and re-create it using **kdb_edit** or **kadmin**. If it is a service principal, replace the key file using the steps described in the chapter on diagnosing authentication problems in the *PSSP: Diagnosis Guide*.

2503-616 **recvfrom() : *error-text***

Explanation: An error occurred receiving a client request on the socket interface. The error text indicates the reason for the problem.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-700 ***file name* is more recent than *ok_filename*.**

Explanation: Either a **kdb_util slave_dump** command was not executed prior to invoking **kprop**, or we lost a race condition between two instances of **kprop** to propagate the current database to secondary servers.

User Response: In the first case, use **push-kprop** instead of **kprop** to initiate database propagation. In the second case, check that the other invocation of **kprop** (perhaps by **cron**) completed successfully.

2503-701 **Cannot read slave host file *file name*.**

Explanation: The slave list file, containing the hostnames of the secondary servers, could not be processed. A preceding message indicates the reason for the problem.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-702 Propagation dd not succeed.

Explanation: Propagation to at least one of the secondary servers did not complete. Another message indicates the actual problem that was detected.

User Response: Take appropriate action based on the error condition reported. If unable to recover, contact the IBM Support Center.

2503-703 Host *hostname* connect() : *error-text*

Explanation: The **kprop** command could not establish a socket connection with the **kpropd** daemon on the indicated host. The text provides additional information about the error. The daemon may not be running, the system may be down, or there may be network problems.

User Response: Take appropriate action based on the condition reported. If unable to recover, contact the IBM Support Center.

2503-704 Host *hostname* write (version) : *error-text*

Explanation: A socket write was unsuccessful, sending the protocol version number to the **kpropd** daemon at the indicated host. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-705 Host *hostname* write (transfer mode) : *error-text*

Explanation: A socket write was unsuccessful, sending the protocol transfer mode to the **kpropd** daemon at the indicated host. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-706 Cannot make key schedule for *hostname*.

Explanation: The session key shared by **kprop** and **kpropd** violates DES rules: it has bad DES parity or is determined to be a weak key. This is a network data integrity problem or a Kerberos V4 software problem.

User Response: Follow local reporting procedures.

2503-707 Input file read : *error-text*

Explanation: The **kprop** command could not read the input file containing the dumped database. You may have incorrectly specified the file name.

User Response: Verify that the command arguments were specified correctly. If not, retry the command.

Otherwise follow local reporting procedures.

2503-708 Host *hostname* krb_mk_priv() did not succeed.

Explanation: **kprop** could not build an encrypted packet containing its credentials and a database record to send to **kpropd**. This is probably the result of a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-709 Host *hostname* write() : *error-text*

Explanation: A socket write was unsuccessful, sending authentication database data to the **kpropd** daemon at the indicated host. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-710 Cannot open slave host file, *hostname*.

Explanation: The **slavelist** file, containing the hostnames of the secondary servers, could not be opened. You may have specified the file name incorrectly.

User Response: Retry the command with the correct arguments. If the **slavelist** file has disappeared, it can be re-created using an editor, putting the fully qualified hostname of each secondary server on a separate line.

2503-711 Host name in *file name* is longer than *limit* characters.

Explanation: The line read from the **slavelist** file was longer than the limit on the length of a hostname. Perhaps you specified the wrong file or the file has been overlaid.

User Response: If the **slavelist** file contains information which is not valid, it can be recreated using an editor, putting the fully qualified hostname of each secondary server on a separate line. Then enter the command again.

2503-712 Unknown host *hostname* in file name.

Explanation: Hostname resolution was unsuccessful for the indicated name read from the **slavelist** file. The name in the file may be incorrect or your name service may be unavailable.

User Response: Check the validity of the file content and the availability of your name server, taking appropriate corrective action, then retry **kprop**.

2503-713 **No memory reading host list from** *file name*.

Explanation: **kprop** was unable to allocate memory to create a list of secondary services. This is probably symptomatic of a serious system problem, such as a major memory leak.

User Response: Follow local reporting procedures.

2503-800 **Was unable to reverse-resolve connection** *network address (reason h_errno)*.

Explanation: The **kproptd** daemon detected an error on a **gethostbyaddr** system call. The meaning of the various **h_errno** values is described in **netdb.h**.

User Response: Check that your name service is available. Look for other possible networking errors, based on the **h_errno** value. If you cannot correct the problem, contact the IBM Support Center.

2503-801 **creat()** : *error_text*

Explanation: The **kproptd** daemon could not open a temporary file to receive the authentication database dump from **kprop**. The error text indicates the nature of the problem. One cause might be a full file system.

User Response: Take appropriate action based on the condition reported. If unable to recover, contact the IBM Support Center.

2503-802 **Cannot read kprop version string:** *error_text*

Explanation: A socket read was unsuccessful, receiving the protocol version number from the **kprop** command at the primary server host. The text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-803 **Unsupported kprop version:** *version_number*.

Explanation: The **kprop** command and the **kproptd** daemon are not using the same level of Kerberos V4 protocol. One of the executables was not supplied as part of the SP authentication service, or has a software error.

User Response: Replace the **kprop** command or **kproptd** daemon with the SP version, if one is not. Otherwise, contact the IBM Support Center.

2503-804 **Cannot read transfer mode:** *error_text*.

Explanation: A socket read was unsuccessful, receiving the protocol transfer mode from the **kprop** command at the primary server host. The text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-805 **Authorization denied.**

Explanation: A propagation request was received that was not from the **rcmd** service in the local realm. **kprop** may have been invoked from outside the local realm.

User Response: Check your procedures for database propagation, including your **cron** entries, for an error and invoke **kprop** only from the local realm's primary (admin) server host.

2503-806 **kprop request from non-admin host;** **rejected.**

Explanation: A propagation request was received that was not from the primary server for the local realm. It may have come from a secondary server.

User Response: Check your procedures for database propagation, including your **cron** entries, for an error and invoke **kprop** only from the local realm's primary (admin) server host.

2503-807 **Incorrect transfer mode** *transfer_mode*.

Explanation: This is a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-808 **Non-private transfers are not supported.**

Explanation: This is a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-809 **Length** *data_length* **does not match** **checksum** *check_sum*.

Explanation: This is a network data integrity problem or a Kerberos software error.

User Response: Follow local reporting procedures.

2503-810 **rename()** : *error_text*.

Explanation: The **kproptd** daemon could not rename the temporary file containing the database dump received from the primary server. The error text indicates the nature of the error.

User Response: Take appropriate action based on the condition reported. If unable to recover, follow local reporting procedures.

2503-811 Could not load database.

Explanation: The `kdb_util load` command could not be executed to re-create the database files from the transmitted data. One possible cause is a full `/var` file system.

User Response: Check `kdb_util` messages for additional information, or other indications of file system problems.

2503-812 Cannot make key schedule.

Explanation: The session key shared by `kprop` and `kproxd` violates DES rules: it has bad "DES parity" or is determined to be a weak key. This is a network data integrity problem or a Kerberos V4 software problem.

User Response: Follow local reporting procedures.

2503-813 read() : error_text

Explanation: A socket read was unsuccessful, receiving authentication database data from the `kprop` command at the primary server host. The error text provides additional information about the error.

User Response: Check for networking problems. If problem persists, contact the IBM Support Center.

2503-814 Read length *data_length* is more than buffer size *buffer_size*.

Explanation: This is a network data integrity problem or a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-900 Kerberos V4 on master key lookup, count found.

Explanation: Either no entry or more than one entry was found in the authentication database for the predefined `K.M` principal. The entry may have been inadvertently deleted or replicated when editing a database dump from `kdb_util dump`.

User Response: If count is greater than one, delete all but one entry, and reload the database on the primary server. If the count is zero, and you have a valid backup of the database on the primary server, use the backup copy to restore it. Otherwise you will have to recreate your authentication environment by rerunning `setup_authent`.

2503-901 Incorrect master key; does not match database. Current Kerberos V4 master key version is *key-version-number*

Explanation: A master key, entered from standard input or read from the `/k` file, does not match the key used to encrypt the authentication database. Either you entered the wrong password, the `/k` file has been

corrupted, or the database has been corrupted.

User Response: If you have changed passwords, and recorded the version numbers corresponding to the various passwords used, you may be able to determine the password you must enter. If the key version from the database is correct (for example, the database has not been down-leveled, as by invoking `kdb_util load` from a dump file created prior to the last password change) you may need to re-create the `/k` file using `kstash`.

2503-902 Kerberos V4 error locking database.

Explanation: This is a locking state violation, a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-903 Incorrect kerberos V4 lock request, mode = *lock-request-type*.

Explanation: This is a Kerberos V4 software error.

User Response: Follow local reporting procedures.

2503-904 Kerberos V4 error unlocking database.

Explanation: This is a locking state violation, a Kerberos V4 software error.

User Response: Follow local reporting procedures.

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2504-001 Kerberos V4 principal expired.

Explanation: The current date is past the expiration date of the principal's entry in the authentication database. Either the system date is incorrect or the expiration date in the database entry was incorrectly set using **kdb_edit**.

User Response: Correct the system date, if it is incorrect; or use the **kdb_edit** command to change the expiration date in the principal's database entry.

2504-004 Unknown Kerberos V4 protocol version.

Explanation: You are attempting to use client and server programs built with different levels of Kerberos V4 libraries. The client and server functions cannot communicate correctly.

User Response: If you are using a Kerberos V4 authentication server other than the one supplied in the PSSP, it must be compatible with MIT Kerberos 4 Patch level 10. The same is true of any Kerberos V4 -authenticated client/server programs you may be running.

2504-005 Incorrect Kerberos V4 master key version.

Explanation: Your *.k* file contains a master key that does not match the key used to encrypt the authentication database. The file could have been corrupted or restored with an earlier level, or the database may have been destroyed.

User Response: Try to recreate the *.k* file by invoking the **kstash** command, entering the correct database master key when prompted.

2504-008 Kerberos V4 principal unknown.

Explanation: An authentication task cannot be performed because the principal name used is not defined in the authentication database. If the failing command is **rcmdtgt**, the principal **rcmd.instance** has not been defined. If the command you entered specified a principal name explicitly, you may have incorrectly entered it.

User Response: Make sure you correctly entered the principal name on the command line or when prompted. If you entered the name correctly, or if you did not explicitly specify a principal for the task, contact your administrator to check the database for the required name and create it if required.

2504-009 Kerberos V4 principal not unique.

Explanation: Multiple entries were found for a principal in the authentication database.

User Response: The root user must find and delete any entries that are duplicate or not valid using the **kdb_util dump** command, an editor, and then **kdb_util load..**

2504-010 Kerberos V4 principal has null key.

Explanation: The entry for the principal has no key in the authentication database.

User Response: The root user must repair the entry for the principal, using the **kdb_edit** command, if possible. If that does not succeed, delete the entry should and recreate it using either **kdb_edit** or **kadmin..**

2504-022 Can't find Kerberos V4 ticket.

Explanation: The ticket cache file exists, but there is no ticket when one is expected.

User Response: Check the setting of the **KRBTKFILE** environment variable to insure that you are using the correct ticket cache file. Try the failing task again, after issuing the **k4destroy** command. If the **k4list** command shows a valid ticket, but the task still fails, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-031 Kerberos V4 error: can't decode authenticator.

Explanation: There is probably a mismatch between the authentication database and a service key file on the server side of an authenticated application.

User Response: Check the key version in the server key file on the server system. The server system is the control workstations if the failing task is trying to contact the Hardware Monitor Daemon. Otherwise, the server system is the target system of a **sysctl** command, remote command or remote copy.

The system administrator, logged in as **root**, should inspect the service key file using the **k4list** command and the authentication database using **kadmin**. If the keys have the same version number, gather information about the problem and follow local site procedures for reporting hardware and software problems.

Otherwise, follow the instructions in the chapter on diagnosing authentication problems in the *PSSP: Diagnosis Guide* for regenerating the service key file for the server system.

2504-032 Kerberos V4 ticket expired.

Explanation: You attempted to perform a task requiring authentication, but the ticket found in the ticket cache file had expired.

User Response: You must log into Kerberos V4 again using **k4init**, before retrying the failing task.

2504-033 Kerberos V4 ticket not yet valid.

Explanation: The ticket found in the ticket cache has a date of issue after the current date and time. There may be something wrong with the clock on your system.

User Response: Log into Kerberos V4 again using **k4init**, then retry the failing task. Report a possible clock problem to your administrator.

2504-036 Inconsistent Kerberos V4 request.

Explanation: An administrative request was issued that was inconsistent with the current state of the authentication database.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-037 Kerberos V4 error: client and server clocks must be synchronized.

Explanation: Authentication was not successful because the clocks on the requesting system and the server differ by more than 5 minutes.

User Response: Have your administrator check that the system's time service is operating correctly, for example, that the NTP daemon is running.

2504-039 Kerberos V4 protocol version mismatch.

Explanation: The authentication server is using a different protocol version of Kerberos V4 than the client. This can only occur if service is being provided by a product not based on MIT Kerberos Version 4, as required.

User Response: You must reconfigure your authentication server(s) so that they all use the same level of Kerberos V4 protocol.

2504-040 Kerberos V4 error: incorrect message type.

Explanation: A Kerberos V4 message packet did not contain the expected information for the request.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-041 Kerberos V4 error: message stream modified.

Explanation: A Kerberos V4 message packet was garbled. This could be through a networking problem, or through improper use of an intercepted message by an outside party.

User Response: Report the problem to your administrator. Investigate possible network hardware or software problems, as well as exposure to network break-in.

2504-052 Kerberos V4 error: incorrect current password.

Explanation: When changing a principal's password, the current password was incorrectly entered.

User Response: Enter the correct password.

2504-056 Kerberos V4 error: retry count exceeded.

Explanation: Repeated attempts to communicate with an authentication server were not successful.

User Response: Have the administrator check that the server daemon is running and that TCP/IP communication is possible between this system and the server system.

2504-057 Kerberos V4 error: can't send request to server.

Explanation: The server system may not be defined properly, TCP/IP communication may be disrupted, or name service may not be working as expected.

User Response: Have your administrator check for proper setup of network interfaces and availability of name service for your system.

2504-062 Incorrect Kerberos V4 password.

Explanation: You entered a password that is incorrect for the principal you are using.

User Response: Enter the correct password, or enter another principal name if the name you are using is incorrect.

2504-063 Kerberos V4 protocol error.

Explanation: An internal error occurred, preventing the client and server functions from successfully completing an authentication or administration task.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-070 Generic Kerberos V4 error.

Explanation: An unexpected condition caused an authentication task to terminate. One possible cause is user interruption via <Ctrl C>.

User Response: Reissue the command, if required.

2504-071 Don't have Kerberos V4 ticket-granting-ticket.

Explanation: There is no ticket-granting-ticket in the ticket cache file. Perhaps KRBTKFILE points to a file that is not a ticket cache.

User Response: Check the KRBTKFILE environment variable for an erroneous setting. Log into Kerberos V4 using **k4init**. If the problem persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-076 Kerberos V4 ticket file was not found.

Explanation: You have no tickets. If you have logged into Kerberos V4, perhaps you have not defined or exported the KRBTKFILE environment variable properly.

User Response: Check the KRBTKFILE environment variable for an erroneous setting. Log into Kerberos V4 using **k4init**. If error persists, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-077 Can't access Kerberos V4 ticket file.

Explanation: There is a problem with access permissions for your ticket cache file.

User Response: Make sure the file you are using is accessible to you.

2504-078 Can't lock Kerberos V4 ticket file.

Explanation: The request to lock the ticket file failed, probably because you have another process using it. If not, perhaps the KRBTKFILE environment variable names a file that is another user's ticket cache file.

User Response: Check whether you are attempting to update the ticket file while it is in use. Check the KRBTKFILE environment variable for an erroneous setting.

2504-079 Incorrect Kerberos V4 ticket file format.

Explanation: The ticket file exists and can be accessed, but does not contain tickets with the required format.

User Response: Check the KRBTKFILE environment variable for an erroneous setting.

2504-080 Kerberos V4 ticket file not initialized.

Explanation: An internal error occurred, preventing the ticket cache file from being read.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-081 Kerberos V4 name has incorrect format.

Explanation: You did not enter a user name in the expected format when prompted. You probably tried to enter instance or realm names in addition to the user name. **k4init** is asking for just the user name part of the principal name.

User Response: If you do not enter the full principal name on the command line, you must specify the **-i** flag in order to enter an instance name interactively. Similarly, you must specify the **-r** flag if you want to specify a realm name interactively.

2504-303 Can't encrypt data.

Explanation: Either client or server failed attempting to encrypt a protocol message. One possible reason is failure to obtain the current system time-of-day.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-305 Principal attempting change is in wrong realm.

Explanation: You requested a password change for a principal defined in a realm other than the one to which your **kadmin** command was directed.

User Response: Exit from **kadmin** and reissue the command specifying the correct realm for the principal whose password you wish to change.

2504-306 Packet is too large.

Explanation: The authentication message built by an administrative command to send to the **kadmin** server is larger than the 64KB limit.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-307 Version number is incorrect.

Explanation: The Kerberos administration command you issued and the administrative server have different version numbers. You are probably running an authentication server based on a different level of MIT Kerberos that is not supported with the 9076 SP2 authentication service.

User Response: Reconfigure your authentication service using the 9076 SP2 authentication server (**ssp.authent**), or another server running a compatible level of MIT Kerberos Version 4. If using the 9076 SP2 server, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-308 Checksum does not match.

Explanation: The Kerberos administration command you issued and the administrative server calculated different checksums.

The message could have been corrupted during transmission, or you may be using a Kerberos authentication server based on a different level of MIT Kerberos that is not supported with the 9076 SP2 authentication service.

User Response: Check for other evidence that network traffic is being corrupted. If there is no evidence, and you are not using the 9076 SP2 server, reconfigure your authentication service using the 9076 SP2 authentication server (**ssp.authent**), or another server running a compatible level of MIT Kerberos Version 4.

Otherwise, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-310 Unsupported operation.

Explanation: The Kerberos administration server found an unsupported operation type field in the client command's request.

The message could have been corrupted during transmission, or you may be using a Kerberos authentication server based on a different level of MIT Kerberos that is not supported with the SP authentication service.

User Response: Check for other evidence that network traffic is being corrupted. If there is no evidence, and you are not using the 9076 SP2 server, reconfigure your authentication service using the 9076 SP2 authentication server (**ssp.authent**), or another server running a compatible level of MIT Kerberos Version 4.

If using the 9076 SP2 server, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-311 Could not find administrating host.

Explanation: You attempted to perform an administrative task for a realm that has no administration server listed in your system's **/etc/krb.conf** file.

Each realm that you expect to administer should have

an entry for its primary (administration) server in the **krb.config** file on any system from which you expect to execute administration commands.

User Response: Add the appropriate entry on this system and reissue the failing command.

2504-312 Administrating host name is unknown.

Explanation: You attempted to perform an administrative task for a realm whose administration server is inaccessible on the network from this system.

This could be the result of a name service problem or an incorrect entry for the primary (administration) server in the **krb.config** file on this system.

User Response: Check the **krb.conf** file and hostname resolution facilities. If necessary, change the **krb.conf** file entry. Reissue the failing command.

2504-314 Could not create socket.

Explanation: The administration command or the **kadmind** server was unable to open a socket. The port could be already in use by another process or the port number for the service might be defined incorrectly in the **/etc/services** file.

User Response: Check to insure that the port is available and that the **kadmind** port is not defined for another service.

2504-315 Could not connect to server.

Explanation: The connect system call failed trying to connect to the **kadmind** server.

User Response: Check for other network error messages indicating related error conditions. If the problem is not resolved, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-316 Could not fetch local socket address.

Explanation: The **getsockname** system call failed, after connecting to the **kadmind** server.

User Response: Check for other network error messages, indicating related error conditions. If the problem is not resolved, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-317 Could not fetch master key.

Explanation: The administration command was unable to obtain the master key, from the master key cache file (**/k**) or interactively from stdin. The **kadmind** server is terminated during startup by this condition.

The **/k** file is created by **kstash**, invoked by the **setup_authent** command. It must exist if the **-n** flag is

specified when starting the **kadmind** daemon. If **-n** is not specified, the daemon requires interactive input of the master key.

User Response: Make sure that file **/.k** exists and that **-n** is specified on the **inittab** entry used to start the **kadmind** daemon.

2504-318 Could not verify master key.

Explanation: The master key was read from the **/.k** file or the keyboard, but is not equal to the current master key for the database. If you changed the master key using the **kadmin** command, you may not have reissued **kstash** to re-create the master key cache file.

User Response: Issue the **kstash** command if you need to do so, then restart the **kadmind** daemon.

2504-319 Entry already exists in database.

Explanation: You tried to create a principal that already exists in the authentication database. You may have incorrectly specified the name, or tried to add it unnecessarily.

User Response: Reissue the request, specifying the correct principal name, if necessary.

2504-320 Database store error.

Explanation: The administration server was unable to update the authentication database. The most likely cause is lack of space in the **/var** file system.

User Response: Check whether the **/var** file system must be expanded. Reissue the failing request after allocating additional space, if necessary.

2504-321 Database read error.

Explanation: The administration server was unable to read the authentication database.

User Response: Check for possible file system or device problems.

2504-322 Insufficient access to perform requested operation.

Explanation: You are not authorized to perform the requested operation according to the administration server's access control list files: **admin_acl.get**, **admin_acl.add**, and **admin_acl.mod**.

User Response: Have an authorized administrator perform the task or have the root user add your Kerberos principal to one or more of the access control list files.

2504-324 No such entry in the database.

Explanation: The principal you attempted to get or modify was not found in the authentication database. You may have incorrectly specified the name.

User Response: Reissue the request with a correct principal name.

2504-325 Memory exhausted.

Explanation: The administrative command was unable to allocate sufficient memory to build the protocol message to send to the administration server.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-326 Could not fetch system hostname.

Explanation: The **gethostname** or **gethostbyname** system call failed when the Kerberos administration server was being initialized.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-327 Could not bind port.

Explanation: The bind system call failed trying to connect to the **kadmind** server.

User Response: Check for other network error messages indicating related error conditions. If the problem is not resolved, gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-328 Length mismatch problem.

Explanation: The data received from the client or server in an authentication message has elements whose lengths are incorrect. This is an internal error.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

2504-329 Incorrect use of wildcard.

Explanation: You specified the "*" wildcard character as a name or instance when you requested an administrative function. This is not allowed.

User Response: You must specify one specific principal.

2504-330 Database locked or in use.

Explanation: The administrative server was unable to update the database, probably because another process is using it.

User Response: Make sure that you or another administrator logged in as root is not making simultaneous updates using the **kdb_edit** or **kdb_load** utilities.

2504-331 Insecure password rejected.

Explanation: You entered a new password that failed the triviality checks performed by the authentication server.

User Response: Reissue the request and specify another password.

2504-332 Cleartext password and DES key did not match.

Explanation: An internal error occurred that caused an encrypted password to no longer match its database entry.

User Response: Gather information about the problem and follow local site procedures for reporting hardware and software problems.

Chapter 23. 2505 - Host responds messages

2505-200 *(sp_name)* **Error calling system call**
system call name : error code
explanation.

Explanation: Some system calls return —1 return code when a failure occurs.

User Response: Check the "errno" global variable to find out the problem.

2505-210 *(sp_name)* **Error getting position of hr log file**
system call name : error code
explanation.

Explanation: System call fgetpos() error when getting the position of the HR log file.

User Response: Contact the IBM Support Center.

2505-211 *(sp_name)* **Error positioning hr log file**
system call name : error code
explanation.

Explanation: System call fsetpos() error when positioning of HR log file.

User Response: Contact the IBM Support Center.

2505-212 *(sp_name)* **Error truncating hr log file**
system call name : error code
explanation.

Explanation: System call truncate() error when truncating HR log file.

User Response: Check if the log file permissions have changed.

2505-213 *(sp_name)* **Error opening hr log file.**
system call name : error code
explanation.

Explanation: System call fopen () error when opening HR log file.

User Response: Check if the log file directory has read-only permissions or if the file system is full.

2505-214 *(sp_name)* **handle_sig() cannot kill snmp child.**
system call name : error code
explanation.

Explanation: System call kill () error when stopping snmp child.

User Response: Contact the IBM Support Center.

2505-215 *(sp_name)* **handle_sig () cannot removed shared memory area.**
system call name : error code
explanation.

Explanation: System call shmctl () error when removing shared memory area.

User Response: Contact the IBM Support Center.

2505-216 *(sp_name)* **Error while sending ping.**
system call name : error code
explanation.

Explanation: System call sendto() error when sending ping.

User Response: Check the error code in the message and the network configuration.

2505-217 *(sp_name)* **Cannot kill snmp child.**
system call name : error code
explanation.

Explanation: System call kill() error when stopping a pre-existing child process.

User Response: Contact the IBM Support Center.

2505-218 *(sp_name)* **Cannot remove shared memory area.**
system call name : error code
explanation.

Explanation: System call shmctl() error when removing shared memory area.

User Response: Contact the IBM Support Center.

2505-219 *(sp_name)* **Cannot create shared memory area.**
system call name : error code
explanation.

Explanation: System call shmget () error when creating shared memory area.

User Response: Use `/usr/bin/ipcs` to check if it exceeds the maximum number of allowed shared memory.

2505-220 *(sp_name)* **Cannot attach shared memory area.**
system call name : error code
explanation.

Explanation: System call shmat() error when attaching to shared memory area.

User Response: Check if the system has run out of memory.

2505-221 (sp_name) **Forking child for snmp does not work.** system call name : error code explanation.

Explanation: System call fork() error when forking sub-process.

User Response: Check if it exceeds the maximum number of processes.

2505-222 (sp_name) **Creating socket fails.** system call name : error code explanation.

Explanation: System call socket() error when creating a new socket.

User Response: Check if the system has run out of sockets.

2505-223 (sp_name) **SETSOCKOPT option SO_REUSEADDR on server socket does not work.** system call name : error code explanation.

Explanation: System call setsockopt() error for option SO_REUSEADDR.

User Response: Contact the IBM Support Center.

2505-224 (sp_name) **SETSOCKOPT option SO_RCVBUF on raw socket does not work.** system call name : error code explanation.

Explanation: System call setsockopt() error for option SO_RCVBUF.

User Response: Contact the IBM Support Center.

2505-225 (sp_name) **Binding server socket to local address does not work.** system call name : error code explanation.

Explanation: System call bind() error.

User Response: Contact the IBM Support Center.

2505-226 (sp_name) **Listening on server socket does not work.** system call name : error code explanation.

Explanation: System call listen() error.

User Response: Contact the IBM Support Center.

2505-227 (sp_name) **Reading from client socket does not work.** system call name : error code explanation.

Explanation: System call recv() error when reading from socket.

User Response: Check if the network configuration is correct.

2505-228 (sp_name) **Accepting connection does not work.** system call name : error code explanation.

Explanation: System call accept() error when accepting connection.

User Response: Check if the network configuration is correct.

2505-229 (sp_name) **Selecting on sockets was fatal.** system call name : error code explanation.

Explanation: System call select() error.

User Response: Contact the IBM Support Center.

2505-230 (sp_name) **dae_routin:," dae_error_string" detected in dae_filename, dae_fileversio, dae_fileline.**

Explanation: Status report for dae_init().

User Response: Check if the daemon srcmstr works.

2505-250 (sp_name) **Cannot end Event Manager session - EM error error number : error message returned from ha_em_end_session() .**

Explanation: Status report for ha_em_end_session().

User Response: Check if daemon haem works.

2505-251 (sp_name) **Event Manager instance vector is not valid.**

Explanation: Cannot find the PREFIX_STR in EM instance vector.

User Response: Check if Event Manager is running correctly.

2505-252 (sp_name) **Event Manager registration error: error specification string .**

Explanation: Event Manager returns registration problem.

User Response: Check if Event Manager is running correctly.

2505-253 (sp_name) **Received UNREGISTER response from Event Manager.**

Explanation: Event Manager returns UNREGISTER response.

User Response: Check if Event Manager is running correctly.

2505-254 *(sp_name)* **ha_em_receive_response() - Unexpected Event Manager response response code .**

Explanation: Event Manager returns unexpected response.

User Response: Check if Event Manager has new return code.

2505-255 *(sp_name)* **Event Manager client setup succeeded; Previous problem has been resolved.**

Explanation: Previous Event Manager problem has been resolved.

User Response: Discard previous Event Manager error messages.

2505-256 *(sp_name)* **Event Manager client setup failed; Make sure Event Manager (haem.sp_name) subsystem is operational.**

Explanation: Has problem talking to Event Manager.

User Response: Check if Event Manager works correctly.

2505-257 *(sp_name)* **Event Manager errno error number returned from Event Manager : error message returned from Event Manager .**

Explanation: HR has problem sending data to Event Manager.

User Response: Check if Event Manager works correctly.

2505-260 *(sp_name)* **Could not write to SDR host_responds class.**

Explanation: Error writing to the System Data Repository.

User Response: Check if the System Data Repository host_responds class already connected to some thing else.

2505-261 *(sp_name)* **SDROpenSessionWithCreds failed. Error: error code .**

Explanation: Error opening System Data Repository.

User Response: Check if the System Data Repository works correctly.

2505-262 *(sp_name)* **Error, cannot open the SDR.**

Explanation: Error opening the System Data Repository.

User Response: Check if the System Data Repository works correctly.

2505-270 *(sp_name)* **Cannot malloc space for name host name !**

Explanation: Memory allocation error.

User Response: Contact the IBM Support Center.

2505-271 *(sp_name)* **Cannot malloc IP hash table.**

Explanation: Memory allocation error.

User Response: Contact the IBM Support Center.

2505-272 *(sp_name)* **cannot allocate outstanding changed node stack!**

Explanation: Memory allocation error.

User Response: Contact the IBM Support Center.

2505-273 *(sp_name)* **cannot allocate outstanding ping tables!**

Explanation: Memory allocation error.

User Response: Contact the IBM Support Center.

2505-274 *(sp_name)* **gethostbyname Host name FAILED(error number)**

Explanation: System call error.

User Response: Check system name resolve (hosts, DNS,...)

2505-275 *(sp_name)* **duplicate node definition(name/number): Host name Inode number .**

Explanation: Node has duplicate entries.

User Response: Check node definition in Event Manager.

2505-276 *(sp_name)* **Found a pre-PSSP-2.2 node node number, cannot handle.**

Explanation: Node has older version of HR.

User Response: Upgrade to PSSP-2.2 or higher.

2505-277 *(sp_name)* **This program can only be run as root.**

Explanation: HR needs to be run as root.

User Response: Use root account to run HR.

2505-278 *(sp_name)* **Very long hostname, node number** *node number*

Explanation: Host name longer than 256 character may cause a problem.

User Response: Use a shorter hostname.

2505-279 *(sp_name)* **Forked snmp child** *fork time counter times.* **Giving up.**

Explanation: Fork time counter exceeds limit.

User Response: None.

2505-280 *(sp_name)* **Forked snmp child** *fork time counter times.* **Exiting!**

Explanation: Fork time counter exceeds limit. Exit.

User Response: None.

2505-282 *(sp_name)* **Problem with SDR or HB, or refresh request** **restarting.**

Explanation: HR resets itself to resolve problems.

User Response: None.

2505-283 *(sp_name)* **icmp: unknown protocol.**

Explanation: System does not have icmp protocol.

User Response: None.

2505-284 *(sp_name)* **unknown flag:** *command line option character .*

Explanation: User specifies an unknown command line option.

User Response: None.

2505-285 *(sp_name)* **These options are set to inappropriate values. You need i >=10, retry < 20, and t >= 250.**

Explanation: User specifies command line options with values that are not valid.

User Response: None.

2505-290 *(sp_name)* **Could not initialize SP Security Services:** *spsec routine error message .*

Explanation: Routine spsec_start was not successful.

User Response: None.

2505-291 *(sp_name)* **Could not obtain SP Security Services token. Do not use DCE.**

Explanation: Routine spsec_start did not really get Security Services token.

User Response: None.

2505-292 *(sp_name)* **Could not obtain authorization methods for trusted services. Do not use DCE.** *spsec routine error message .*

Explanation: Routine spsec_get_auth_methods was not successful in obtaining authorization methods.

User Response: None.

2505-293 *(sp_name)* **Could not renew DCE login context. Exiting.** *spsec routine error message .*

Explanation: Routine spsec_renew_identity could not renew DCE login context.

User Response: None.

2505-294 *(sp_name)* **Could not log process into DCE as service principal. Exiting.** *spsec routine error message .*

Explanation: Routine spsec_login_as_service was not successful in establishing DCE login context,

User Response: None.

2505-295 *(sp_name)* **Previous DCE login failed. Exiting.** *spsec routine error message .*

Explanation: Routine spsec_get_my_identity was not successful. Previous DCE login must have failed.

User Response: None.

2505-296 *(sp_name)* **Could not release resource used by security services:** *spsec routine error message .*

Explanation: Routine spsec_end was not successful.

User Response: None.

2505-297 (*sp_name*) **Could not get full name of hr services access group: spsec routine error message .**

Explanation: Routine spsec_get_group_name was not successful in getting the full name of hr services access group.

User Response: None.

2505-298 (*sp_name*) **Could not get UUID of hr services access group: spsec routine error message .**

Explanation: Routine spsec_get_group_uuid failed to get UUID of hr services access group.

User Response: None.

2505-299 (*sp_name*) **Could not authenticate client: spsec routine error message .**

Explanation: Routine spsec_authenticate_client was not successful in authenticating a client.

User Response: None.

2505-301 (*ERROR*) **The subsystem_name subsystem must be stopped before removing it.**

Explanation: The user tried to execute **hr mksrc, hrctrl -a, hr rmsrc** or **hrctrl -d** while the **hrd** daemon was running.

User Response: Use **hrctrl -k** to stop the **hr** daemon and then retry the requested action.

2505-302 (*sp_name*) **ERROR: The subsystem_name subsystem must be stopped before removing it.**

Explanation: The subsystem must be stopped before removing it.

User Response: Stop the running HR daemon first.

2505-303 **ERROR: The subsystem_name must be stopped before remaking it.**

Explanation: The subsystem has already been running on the machine. There can only be one HR in each partition.

User Response: Stop the running HR daemon.

2505-304 (*sp_name*) **ERROR: Could not add the "subsystem_name" subsystem.**

Explanation: mkssys command was not successful.

User Response: Check the mkssys command and the parameters.

2505-305 **ERROR: Could not add the "subsystem_name" subsystem.**

Explanation: mkssys command was not successful.

User Response: Check mkssys command the parameters.

2505-306 **ERROR: program name (hrd) is not executable; SRC object "subsystem_name" not made.**

Explanation: The given daemon name is not an executable program.

User Response: Check if the HR daemon exists and has execute permission.

2505-307 **ERROR: (partition name) SDRGetObjects Syspar failed; setting SP_NAME='sp_name'.**

Explanation: Cannot connect to server to get SP_NAME.

User Response: Set SP_NAME to the pass-in parameter ($\{\text{SYSPAR_NAME}\}$). Default action. Not fatal.

2505-308 (*sp_name*) **ERROR: Could not add the "subsystem name" entry to /etc/inittab.**

Explanation: mkitab command was not successful.

User Response: Check mkitab command and the parameters.

2505-309 **ERROR: Could not add the "subsystem name" entry to /etc/inittab.**

Explanation: mkitab command was not successful.

User Response: Check mkitab command and the parameters.

2505-310 **ERROR: Invalid parameter 'parameter' .**

Explanation: The command line parameter is not valid.

User Response: Use only known options.

2505-311 **ERROR: This command can only run on the control workstation.**

Explanation: HR not running on control workstation.

User Response: Use a control workstation to run HR.

Chapter 24. 2506 - IBM Recoverable Virtual Shared Disk messages

2506-101 **The *subsystem name* subsystem must be stopped before remaking it.**

Explanation: You are attempting to remake the subsystem using the **mksrc** command.

User Response: Run the **ha.vsd stop** command first.

2506-102 **All VSD nodes must use the same type of communication adapter.**

Explanation: The nodes are using different types of communication adapters. This is not permitted.

User Response: Remove nodes that are using different adapter types.

2506-103 ***script name* is not executable; SRC object *SRC object name* not made.**

Explanation: You issued the **ha.vsd rmsrc** command.

User Response: Run the **ha.vsd stop** command first.

2506-104 **The *subsystem name* subsystem must be stopped before removing it.**

Explanation: You issued the **ha.vsd rmsrc** command.

User Response: Run the **ha.vsd stop** command first.

2506-105 **Not a VSD node, exiting.**

Explanation: You tried to run the **ha.vsd start** command on a node that is not an IBM Virtual Shared Disk node.

User Response: Use the **vsdnode** command to make the node an IBM Virtual Shared Disk node.

2506-106 **Invalid parameter *invalid parameter*.**

Explanation: You specified an invalid parameter.

User Response: Check the command arguments and reissue the command.

2506-107 **Not enough file system space on *file pathname*.**

Explanation: The specified file system is full.

User Response: Increase the size of the file system or remove unnecessary files.

2506-108 **Not enough file system space on *file pathname*, waiting.**

Explanation: An IBM Virtual Shared Disk node does not have enough space.

User Response: Increase disk space on the node, or remove unnecessary files.

2506-109 **DetermineRVSDversion (): SDRGetObjects failed.
Output=*SDRGetObjects output***

Explanation: A problem occurred while accessing the SDR.

User Response: Use the output in the message text to analyze the problem.

2506-110 **RVSD_Restrict_Level has more than one domain.**

Explanation: There are different levels of RVSD installed.

User Response: None.

2506-111 **The rvsdrestrict command forces RVSD to reduce its function to *Version.Release.Modification.Fix level*.**

Explanation: There are different levels of RVSD installed.

User Response: None.

2506-112 **RVSD cannot start. Backlevel nodes were detected. See the rvsdrestrict command.**

Explanation: There are different levels of RVSD installed.

User Response: Issue the **rvsdrestrict** command to correct the situation.

2506-113 **RVSD can not start. Backlevel nodes were detected and the rvsdrestrict command has set the function level too high.**

Explanation: There are different levels of RVSD installed.

User Response: Issue the **rvsdrestrict** command to correct the situation.

2506-114 **MakeNodeFile(): SDRGetObjects failed.**
Output=SDRGetObjects output.

Explanation: A problem occurred while accessing the SDR.

User Response: Use the output in the message text to analyze the problem.

2506-115 **Usage: ha.vsd quorum n : missing quorum value n.**

Explanation: The quorum value is missing from the command input.

User Response: Check the command arguments and reissue the command.

2506-116 **FAILED to start the RVSD recovery daemon; exiting.**

Explanation: The **ha.vsd start** command failed, and the rvsd daemon could not be started.

User Response: Check the console log for errors.

2506-117 **FAILED to start the HC recovery daemon; exiting.**

Explanation: The **ha.vsd start** command failed, and the hc daemon could not be started.

User Response: Check the console log for errors.

Chapter 25. 2508 - Log management messages

2508-101 Options *options* and *options* are mutually exclusive.

Explanation: The two lists of options are mutually exclusive for this usage.

User Response: Review the reference page for the program and the usage string and enter the command again.

2508-102 Cannot open file *file name*.

Explanation: Cannot open a file needed to execute the command.

User Response: Check the pathname and permissions to the file.

2508-103 Missing required option(s): *options*.

Explanation: Required command line options were not passed.

User Response: Enter the command with the missing required options.

2508-104 The following options are not valid: *options*.

Explanation: Options passed are not valid for this function.

User Response: Enter the command with valid options.

2508-105 Caught SIG(*signal*) terminating...

Explanation: The command received a signal causing it to terminate.

User Response: None

2508-106 Option(s) *options* must be supplied if option *option2* is not used.

Explanation: *options* are required when *option2* is not used.

User Response: Enter the command with the required options.

2508-107 Cannot create directory: *directory*.

Explanation: An error occurred while trying to create the directory.

User Response: Check the permissions and path to the target directory.

2508-108 Directory *directory* not found.

Explanation: The required directory was not found to exist.

User Response: Check the directory pathname.

2508-109 *name* is not a directory.

Explanation: A parameter passed as a directory name is not a directory.

User Response: Enter the command with a corrected directory name.

2508-110 No hostnames found.

Explanation: No hosts to execute on were found

User Response: Check that **-a** or **-w** flags are used.

2508-111 Unable to trim logfile *path/logfile name*.
Not enough space in the filesystem.

Explanation: To trim the log file, first create a temporary file in the directory in which the log file resides. There is not enough space in the file system for this work to be done.

User Response: Increase the size of the file system or manually trim the log.

2508-201 *location* is not a valid output option.

Explanation: The output location (**-o**) was not a valid form.

User Response: Enter the command with a output location of: */dev/rmtdevice_number*, */dev/rfddevice_number*, or *userid@address*.

2508-202 Cannot send file *file name* to output location.

Explanation: An error occurred while attempting to either write a file to the specified device, or mail it to the specified mail location.

User Response: make sure the output location specified is a valid tape device, disk device, or mail location.

2508-203 Cannot determine space available under directory *directory*.

Explanation: An error occurred while trying to determine the size of a file system.

User Response: Determine if the file system path exists.

2508-204 No commands found in table:
tablename.

Explanation: No valid collection commands or source files were found in the input table.

User Response: Fix any syntax errors in the table or add collection stanzas.

2508-205 No target nodes found in table:
tablename.

Explanation: No node names were found on the table stanzas.

User Response: Add target node names or files to the table stanzas.

2508-206 Unsupported snap option(s).

Explanation: The **snap** options specified to the service function are not supported. This message is followed by the usage string which displays the legal snap options.

User Response: Review the reference page or usage string for a list of supported **snap** options.

2508-207 Cannot parse line *linenumber* in table *tablename.*

Explanation: The stanza on *linenumber* in the input table was not correctly formed.

User Response: Edit the table and correct the stanza in error.

2508-208 Insufficient space to remote copy *tarfile_name*. tar size is *tarfile_size*.

Explanation: The server was unable to copy the **node.tar.Z** file to the client based on the size limit set by the client.

User Response: If sufficient space exists, the client will make a second attempt to have the server remote copy the file. If it fails, increase the size of the file system used on the client.

2508-209 Insufficient authorization to run this function.

Explanation: The user failed an internal authentication check on the server.

User Response: The **splm** command consists of a client script and a server procedure which is executed by the Sysctl facility. Sysctl callbacks perform access authorization according to the configuration of security services on the server nodes. The server requires the following authorization:

splm -a view The caller must be an authenticated user according to the configuration of security

services on the server node. The AUTH Sysctl authorization callback is used for granting access to the view function.

splm -a archive The archive, gather and service functions of the **splm** command

splm -a gather additionally require that the user have an authenticated

splm -a service principal which been granted access by an entry in the log management ACL, */etc/logmgt.acl*. The Sysctl aclcheck procedure is used to authorize access to these functions on each target node.

Refer to the SP Administration Guide, Sysctl and Managing Log Files chapters,for additional information.

2508-210 No match found to source directory *srcfile* skipping...

Explanation: A source file in a table stanza was not found on the server.

User Response: This stanza will be skipped. Check for existence of the file and edit the table if it was not entered correctly.

2508-211 Snap not successful.

Explanation: A call to **snap** was not successful.

User Response: Review the **snap** messages passed by the command.

2508-212 Cannot cp file *file name* to archive or collection.

Explanation: An error occurred while trying to copy a source file into an archive or service collection.

User Response: Check for the file's existence and permissions.

2508-213 Cannot execute *command* to archive or collection.

Explanation: An error occurred while trying to execute a source command in the input table.

User Response: Check the command's syntax, path and permissions.

2508-214 Insufficient space to create archive or service collection.

Explanation: There was not enough file space to create an archive or service collection on the server node.

User Response: Increase the file system size on the server.

2508-215 **Insufficient space to gather archive or service collection from *node*.**

Explanation: There was not enough file space to gather an archive or service collection from the server node.

User Response: Increase the file system size on the client.

2508-216 **Error in remote copy of *tarfile* to *central_location*. *tar* size is *tar_file_size*.**

Explanation: The remote copy failed when trying to copy *tarfile* back to client file system.

User Response: Review any prior messages issued by remote copy.

2508-217 **Command *command* not in authorization file *splm.allow*. Skipping...**

Explanation: Command was not listed in *splm.allow* file so it cannot be executed.

User Response: Update */etc/splm.allow* file or remove entry from table.

2508-218 **Error executing command *command* to view.**

Explanation: Command could not be executed to view.

User Response: Check permissions of file being executed.

2508-219 **Cannot open pipe from *sysctl*.**

Explanation: An error occurred while trying to open a pipe to *sysctl*.

User Response: Check that the *sysctld* daemon is running.

2508-220 **No valid file or command actions received. Exiting.**

Explanation: No valid actions (commands or source files) were received from the client to this node.

User Response: Review prior messages for errors in the actions received.

2508-221 **Error in creating *archive* | *collection tar* file: *tar_file_name*.**

Explanation: An error occurred when trying to create an archive tar file or service collection tar file.

User Response: Review prior messages for errors, increase file system size if that caused the failure.

2508-222 **Command *command_name* not found, skipping...**

Explanation: A command in the table was not found on the server.

User Response: This command will be skipped. Check for existence of the command and edit the table if it was not entered correctly.

2508-301 **Start and end times must be *mmddhhmm* (month/day/hour/minute).**

Explanation: The start or end time is in the wrong format.

User Response: Enter the information again with valid start and end times.

2508-302 **Insufficient authorization to trim *syslog* files.**

Explanation: User not authorized to trim *syslog* log files.

User Response: The *psysclr* command consists of a client script and a server procedure which is executed by the *Sysctl* facility. *Sysctl* performs access authorization according to the configuration of security services on the server nodes. This command requires that the caller have an authenticated principal which has been granted access by an entry in the log management ACL, */etc/logmgt.acl*. The *Sysctl aclcheck* procedure is used to authorize access on each target node. Refer to the SP Administration Guide, *Sysctl* and *Managing Log Files* chapters, for additional information.

2508-303 **Cannot restart *syslogd* with configuration file: *configuration_file*.**

Explanation: Unable to restart *syslog* daemon after trimming logs.

User Response: Check the syntax of the *configuration_file*.

2508-304 **Priority value: *priority* is not valid.**

Explanation: The *-p* option argument was not valid.

User Response: Enter the command again with the valid priority.

2508-305 **No log files found matching the configuration file search parameters.**

Explanation: No log files found to trim or report on.

User Response: Check that the *-p*, *-f*, *-g*, or *-l* flags lead to valid log files.

2508-306 **The -y flag, or one or both -e, -s flags are required.**

Explanation: The -y flag is exclusive with the -e, -s flags, but either the -y or -e, -s are required.

User Response: Issue the command again with either -y, -e, or -s.

2508-401 **Cannot add Notification Object. Object *objectname* already exists.**

Explanation: Cannot add an object by the same name as an existing object.

User Response: Remove the old object first if making a change, or rename the new object.

2508-420 **There must be an equal number of detail data lengths, ids, and encodings entered.**

Explanation: Error templates must have a length, ID, and encode for each detail data stanza.

User Response: Enter the command again with equal numbers of these fields (between 0-8 each).

Chapter 26. 2509 - High Availability Control Workstation (HACWS) messages

2509-001 **Permission denied. You must be the root user to set the virtual host name.**

Explanation: Only the root user can set the virtual host name.

User Response: Login as root.

2509-002 **Could not retrieve the virtual host name from the *filename of file used to store virtual hostname file*.**

Explanation: The virtual host name gets stored in the filename specified. For some reason, the **vhostname** command could not retrieve the virtual host name from the file.

User Response: Run the command **cat filename** and investigate the error.

2509-003 **Could not store the virtual host name into the *filename of file used to store virtual hostname file*.**

Explanation: The virtual host name gets written to a temporary file, and the temporary file gets renamed to *filename of file used to store virtual hostname*. The problem may have occurred while attempting to store the virtual host name into the temporary file or while attempting to rename the temporary file.

User Response: Execute the following series of commands:

```
echo fake_name >/etc/vhostname.tmp
rm /etc/vhostname
mv /etc/vhostname.tmp /etc/vhostname
```

One of these commands should generate an error message. Investigate the error.

2509-004 **The length of a virtual host name is limited to 255 bytes.
MAX_VHOSTNAME_LEN = maximum number of bytes in a virtual hostname.**

Explanation: You attempted to set a virtual host name which exceeds 255 bytes.

User Response: Reissue the command with no more than 255 bytes.

2509-031 **The number of parameters specified is not correct.**

Explanation: The **sethacws** command expects exactly one argument which represents the new HACWS configuration state. Too many or too few arguments is considered to be an error.

User Response: Reissue **sethacws** with the correct number of parameters.

2509-032 **Permission denied. You must be the root user to run this command.**

Explanation: Only the root user can set the HACWS configuration state.

User Response: Login as root.

2509-033 **Invalid argument. You must specify a valid HACWS configuration state.**

Explanation: You attempted to set the HACWS configuration state to a value which is not allowed.

User Response: Refer to the **sethacws** reference page for a list of valid HACWS configuration states.

2509-034 **Could not determine whether command was running on a control workstation.**

Explanation: Could not run **/usr/lpp/ssp/install/bin/node_number**, or it returned an error code.

User Response: Run **/usr/lpp/ssp/install/bin/node_number** and investigate the error.

2509-035 **This command can be run only on a control workstation.**

Explanation: This command was not run on a control workstation.

User Response: Issue this command at the control workstation.

2509-036 **Could not store the HACWS configuration state into the */etc/hacws.state file*.**

Explanation: The HACWS configuration state gets written to a temporary file, and the temporary file gets renamed to **/etc/hacws.state**. A problem may have occurred while attempting to store the HACWS configuration state into the temporary file or while attempting to rename the temporary file.

User Response: Execute the following series of commands:

```
echo fake_name >/etc/hacws.state.tmp
rm /etc/hacws.state
mv /etc/hacws.state.tmp /etc/hacws.state
```

One of these commands should fail. Investigate the error.

2509-061 **Could not determine whether the command was running on a control workstation.**

Explanation: Could not run `/usr/lpp/ssp/install/bin/node_number`, or it returned an error code.

User Response: Run `/usr/lpp/ssp/install/bin/node_number` and investigate the error.

2509-062 **This command can be run only on a control workstation.**

Explanation: This command was not run on a control workstation.

User Response: Issue this command at a control workstation.

2509-063 **Could not retrieve the HACWS configuration state from the `/etc/hacws.state` file.**

Explanation: The HACWS configuration state gets stored in the `/etc/hacws.state` file. For some reason, the `lshacws` command could not retrieve the HACWS configuration state from the file.

User Response: Issue the command `cat /etc/hacws.state` and investigate the error.

2509-064 **The `/etc/hacws.state` file has been corrupted. Please notify your system administrator.**

Explanation: The HACWS configuration state gets stored in the `/etc/hacws.state` file. The `lshacws` command successfully read the contents of the `/etc/hacws.state` file, but the file did not contain a valid HACWS configuration state.

User Response: General users should notify their system administrator. The system administrator should restore the correct HACWS configuration state by running the `sethacws` command, and then attempt to find out why the `/etc/hacws.state` file was corrupted in the first place.

2509-500 **Pre-post-event processing failed for event `event name`.**

Explanation: A failure occurred while running a customer-supplied HACWS pre-post-event script.

User Response: Look at the output from the pre-post-event script and use that as a starting point to investigate the problem.

2509-501 **HACWS post-event processing failed for event `event name`.**

Explanation: A failure occurred while running an HACWS post-event script.

User Response: Look at the output from the post-event script and use that as a starting point to investigate the problem.

2509-502 **Post-post-event processing failed for event `event name`**

Explanation: A failure occurred while running a customer-supplied HACWS post-post-event script.

User Response: Look at the output from the post-post-event script and use that as a starting point to investigate the problem.

2509-505 **Pre-pre-event processing failed for event `event name`.**

Explanation: A failure occurred while running a customer-supplied HACWS pre-pre-event script.

User Response: Look at the output from the pre-pre-event script and use that as a starting point to investigate the problem.

2509-506 **HACWS pre-event processing failed for event `event name`.**

Explanation: A failure occurred while running an HACWS pre-event script.

User Response: Look at the output from the pre-event script and use that as a starting point to investigate the problem.

2509-507 **Post-pre-event processing failed for event `event name`.**

Explanation: A failure occurred while running a customer-supplied HACWS post-pre-event script.

User Response: Look at the output from the post-pre-event script and use that as a starting point to investigate the problem.

2509-510 **Cannot find host `host name`.**

Explanation: One of the control workstation name arguments is not valid.

User Response: Run the `install_hacws` command again with valid primary and backup control workstation arguments.

2509-511 **Cannot issue remote commands to name of either the primary or backup control workstation.**

Explanation: The command tried to issue a remote command to the specified workstation and failed.

User Response: Run the command `/usr/lpp/ssp/rcmd/bin/rsh XXXX hostname`, where **XXXX** is the name of the specified workstation, and investigate the results.

2509-512 **Cannot resolve host name short or long host name for one of the control workstations.**

Explanation: The command failed to obtain a host entry from the nameserver or `/etc/hosts` file for the specified workstation.

User Response: Run the command `host XXXX`, where **XXXX** is the name of the specified workstation, and investigate the results.

2509-513 **You must specify two different host names.**

Explanation: Both the primary and backup control workstation name arguments refer to the same machine.

User Response: Run the `install_hacws` command again with valid primary and backup control workstation name arguments.

2509-514 **Either the primary or backup control workstation must refer to the local host.**

Explanation: Neither the primary nor backup control workstation name arguments refer to the local machine.

User Response: Run the `install_hacws` command from either the primary or backup control workstation.

2509-521 **Setup for remote execution on node name of one of the control workstations failed.**

Explanation: The command could not write to the `/var/adm/hacws/.status` file on the specified workstation.

User Response: Run the command `/usr/lpp/ssp/rcmd/bin/rsh XXXX cat /var/adm/hacws/.status`, where **XXXX** is the specified workstation, and investigate the results.

2509-522 **The dsh command could not run a remote command on name of one of the control workstations.**

Explanation: The `dsh` command could not run a remote command on the specified workstation.

User Response: Run the command `dsh -w XXXX hostname`, where **XXXX** is the specified workstation, and investigate the results.

2509-523 **Execution on node name of one of the control workstations failed.**

Explanation: An error occurred while the command was executing on the specified workstation.

User Response: Other error messages are generated from execution on the specified workstation. Investigate those error messages, correct any problems, and execute the command again.

2509-524 **The primary must be a control workstation.**

Explanation: This command cannot be run on an SP node.

User Response: Run this command on the control workstation.

2509-525 **The backup cannot be an SP node.**

Explanation: This command cannot be run on an SP node.

User Response: Run this command on the control workstation.

2509-526 **Authentication configuration file /etc/krb.realms or /etc/krb-srvtab is missing.**

Explanation: A required authentication configuration file is missing.

User Response: Verify authentication configuration on both control workstations.

2509-527 **The directory /spdata/sys1/sdr could not be found. Make sure the /spdata/sys1 filesystem is accessible from the primary control workstation.**

Explanation: The file system that contains the `/spdata/sys1/sdr` directory is probably not mounted on the primary control workstation.

User Response: Make sure that the file system that contains the `/spdata/sys1/sdr` directory (e.g. `/spdata` or `/spdata/sys1`) is mounted on the primary control workstation.

2509-528 **The /spdata/sys1 filesystem must reside on an external volume group.**

Explanation: The directory `/spdata/sys1` resides in the **root** volume group.

User Response: Move the `/spdata/sys1` directory to an external volume group.

2509-529 **The backup control workstation appears to have been modified by the `install_cw` command. This is not allowed.**

Explanation: You cannot run the `install_cw` command on the backup control workstation prior to installing HACWS on it.

You also cannot install the backup control workstation from a `mksysb` image of the primary control workstation, because this causes the changes that were previously made by `install_cw` on the primary control workstation to be present on the backup control workstation. For either of these reasons, the backup control workstation appears to have been modified by the `install_cw` command.

User Response: For information about installing the backup control workstation, see the HACWS installation instructions in *PSSP: Installation and Migration Guide*.

2509-530 **The /spdata/sys1 directory has unexpected contents. Make sure the /spdata/sys1 filesystem is available on the primary control workstation.**

Explanation: The `/spdata/sys1` file system appears to be mounted on the wrong control workstation.

User Response: Make sure that the `/spdata/sys1` file system is mounted only on the primary control workstation.

2509-531 **Cannot create directory *directory name* because it already exists as a regular file.**

Explanation: HACWS requires a directory with the specified name, but there already exists a regular file with that same name.

User Response: Either rename or remove the specified file.

2509-532 **Problem adding control workstation node number to ODM.**

Explanation: The node number could not be added to the ODM.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-533 **Cannot obtain HACWS configuration state for *name of one of the control workstations*.**

Explanation: The command could not query the HACWS configuration state on the specified workstation.

User Response: Run the command `lshacws` on the specified workstation and investigate any error messages.

2509-534 **Could not obtain node number for *name of one of the control workstations*.**

Explanation: The command could not determine the node number for the specified workstation.

User Response: Run the command `/usr/lpp/ssp/install/bin/node_number` on the specified workstation and investigate the results.

2509-535 **The primary must be the currently active control workstation.**

Explanation: The command requires the primary control workstation to be configured as the active control workstation, but it is currently configured as inactive.

User Response: Move control workstation services to the primary control workstation and run the command again.

2509-536 **The backup must not be the currently active control workstation.**

Explanation: The command requires the backup control workstation to be configured as the inactive control workstation, but it is currently configured as active.

User Response: Move control workstation services to the primary control workstation and run the command again.

2509-537 **Could not set HACWS configuration state.**

Explanation: The `sethacws` command failed.

User Response: This failure should be accompanied by an error message from the `sethacws` command. Investigate that message.

2509-538 **Could not add the *subsystem name* subsystem.**

Explanation: The above subsystem could not be added.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-539 Could not start SDR subsystem.

Explanation: The SDR subsystem could not be started.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-540 The SDR subsystem should not run on the backup while the primary is the active control workstation.

Explanation: The SDR subsystem should not run on the inactive control workstation.

User Response: Run the command **stopsrc -g sdr** on the backup control workstation.

2509-541 Could not create *file name* file.

Explanation: The command failed to create the specified file.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-542 Could not copy *file name* file from *name of one of the control workstations*.

Explanation: The command failed to copy the specified file from the specified workstation.

User Response: Run the command **/usr/lpp/ssp/rcmd/bin/rcp YYYY:XXXX XXXX**, where YYYY is the name of the machine above and XXXX is the specified file name. Note that the file name appears twice. Investigate the results.

2509-543 Could not obtain the control workstation name from the SDR.

Explanation: The control workstation name could not be obtained from the SDR.

User Response: Run the command **/usr/lpp/ssp/bin/SDRGetObjects SP control_workstation** and investigate the results.

2509-544 The SDR contains the wrong control workstation name. Expected: *expected control workstation name*. Actual: *actual control workstation name*.

Explanation: The primary control workstation hostname obtained from the **/usr/lpp/ssp/bin/SDRGetObjects SP control_workstation** command must match the primary control workstation hostname obtained from the **/usr/bin/hostname -s** command on the primary control workstation. For some reason these two values do not match.

User Response: If either of these values is wrong,

this may lead to other configuration problems. Contact the IBM Support Center to help you correct this problem and determine if it has caused any other configuration problems.

2509-545 Failed to create directory *directory name*.

Explanation: The specified directory could not be created.

User Response: Run the **mkdir -p *directory name*** command and investigate the results.

2509-546 Could not remove the *inittab* entry key entry from */etc/inittab*.

Explanation: The specified **inittab** entry could not be removed.

User Response: Run the **rmitab *inittab entry key*** command and investigate the results.

2509-547 Could not add *inittab* entry key entry to */etc/inittab*.

Explanation: The specified **inittab** entry could not be added.

User Response: This error should be accompanied by an error messages from the **mkitab** command. Investigate that error message.

2509-548 Could not add the HACWS data to the SDR.

Explanation: A failure occurred while trying to add the HACWS data to the SDR.

User Response: This error should be accompanied by an error message from the **SDRChangeAttrValues** command. Investigate that error message.

2509-549 Could not obtain disk I/O pacing tunable parameters.

Explanation: Disk I/O pacing tunable parameters could not be obtained.

User Response: Run the following commands: **lsattr -E -O -I sys0 -a minpout** and **lsattr -E -O -I sys0 -a maxpout** and investigate the results.

2509-550 Could not set disk I/O pacing "*minpout*" or "*maxpout*" tunable parameter.

Explanation: The specified tunable parameter could not be set.

User Response: This error should be accompanied by an error message from the **chdev** command. Investigate that error message.

2509-551 Could not set virtual host name.

Explanation: The `vhostname` command failed to set the virtual hostname.

User Response: This error should be accompanied by an error message from the `vhostname` command. Investigate that error message.

2509-552 Could not add installation data to the SDR.

Explanation: Either the `SDR_init` or `SDR_config` command failed.

User Response: This error should be accompanied by an error message from either the `SDR_init` or `SDR_config` command. Investigate that error message.

2509-601 The node number indicates *host name* is not a control workstation.

Explanation: The specified machine is not a control workstation. This probably means that the `install_hacws` command was not executed.

User Response: Refer to the HACWS installation documentation in *PSSP: Installation and Migration Guide*.

2509-602 Cannot retrieve data from the SDR.

Explanation: A problem occurred while trying to retrieve data from the SDR.

User Response: Verify that the SDR is working properly.

2509-603 This command cannot execute while the backup control workstation is active.

Explanation: This command requires the primary control workstation to be the currently active control workstation.

User Response: Move control workstation services to the primary control workstation and run the command again.

2509-604 No backup control workstation has been defined.

Explanation: This probably means that the `install_hacws` command was not executed.

User Response: Refer to the HACWS installation documentation in *PSSP: Installation and Migration Guide*.

2509-605 The primary and backup host names cannot be the same.

Explanation: The output from the `/usr/bin/hostname` command is the same for both the primary and backup control workstations. One of the control workstations has the wrong hostname.

User Response: If either of these values is wrong, this may lead to other configuration problems. Contact the IBM Support Center to help you correct this problem and determine if it has caused any other configuration problems.

2509-606 *name of one of the control workstations* has an invalid HACWS state.

Explanation: The specified machine has an invalid HACWS state.

User Response: Run the `lshacws` command on the specified workstation and investigate the results.

2509-607 One control workstation must be active while the other is inactive. Both *name of one of the control workstations* and *name of other control workstation* appear to be "ACTIVE" or "INACTIVE" .

Explanation: Both control workstations are currently in the same state.

User Response: Make sure that one control workstation is providing control workstation services and the other is not.

2509-608 Could not run the `dsch` command.

Explanation: The `dsch` command failed.

User Response: This error message should be accompanied by an error message from the `dsch` command. Investigate the error message.

2509-609 The directory `/spdata/sys1/sdr` could not be found. Make sure the `/spdata/sys1` filesystem is accessible from *name of one of the control workstations*.

Explanation: The file system that contains the `/spdata/sys1/sdr` directory is probably not mounted on the specified workstation.

User Response: Make sure that the file system that contains the `/spdata/sys1/sdr` directory (e.g. `/spdata` or `/spdata/sys1`) is mounted on the specified workstation.

2509-610 The `/spdata/sys1` directory has unexpected contents. Make sure the `/spdata/sys1` filesystem is available on name of one of the control workstations.

Explanation: The `/spdata/sys1` file system appears to be mounted on the wrong control workstation.

User Response: Ensure that the `/spdata/sys1` file system is mounted only on the specified machine.

2509-611 The directory *directory name* is missing.

Explanation: A required directory is missing.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-612 Missing `crontab` entry for *crontab entry name*.

Explanation: A required `crontab` entry is missing.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-613 The *file name* file is missing.

Explanation: A required file is missing.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-614 The *subsystem name* `subsystem` is missing.

Explanation: A required subsystem is missing.

User Response: You need to run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-615 Found unexpected entry *inittab entry name* in `/etc/inittab`.

Explanation: An unexpected `inittab` entry was found.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-616 The `/etc/rc.hacws` file is not correct.

Explanation: The `/etc/rc.hacws` file is not correct.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-617 The `hacws` entry is missing from `/etc/inittab`.

Explanation: The `hacws` entry is missing from `/etc/inittab`.

User Response: Run the `install_hacws` command. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in: *PSSP: Installation and Migration Guide*.

2509-618 The *HACWS resource group name* resource group has not been defined.

Explanation: The HACWS resource group has not been defined to HACMP.

User Response: To define the HACWS resource group to HACMP, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*

2509-619 *Node name of one of the control workstations* does not belong to the *HACWS resource group name* resource group.

Explanation: Both control workstations must be able to take over the HACWS resource group, but the specified machine does not belong to the HACWS resource group.

User Response: List the specified workstation as one of the participating nodes in the HACWS resource group. For details, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-620 The *HACWS resource group name* resource group must be a rotating resource group.

Explanation: The HACWS resource group must be a "rotating" resource group, and it is not currently defined as a "rotating" resource group.

User Response: To define the HACWS resource group as a "rotating" resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-621 **Resource group** *HACWS resource group name* **contains no application server.**

Explanation: The HACWS resource group must contain an application server, and there is no application server currently defined.

User Response: To define the application server for the HACWS resource group see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-622 **The start script** *HACWS start script name* **must be defined to the HACWS resource group name resource group.**

Explanation: The HACWS resource group must contain the specified start script.

User Response: To define the start script for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-623 **The stop script** *HACWS stop script name* **must be defined to the HACWS resource group name resource group.**

Explanation: The HACWS resource group must contain the specified stop script.

User Response: To define the stop script for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-624 **Resource group** *HACWS resource group name* **contains no service address.**

Explanation: The HACWS resource group must contain a service address, and there is no service address currently defined.

User Response: To define the service address for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-625 **The host name of the primary control workstation must be a service address in the HACWS resource group name resource group.**

Explanation: The HACWS resource group must contain a service address that matches the hostname of the primary control workstation. However, the hostname of the primary control workstation is not among the list of service addresses.

User Response: To add the hostname of the primary control workstation to the list of service addresses for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control

Workstation in *PSSP: Installation and Migration Guide*.

2509-626 **Resource group** *HACWS resource group name* **contains no volume group.**

Explanation: The HACWS resource group must contain a volume group, and there is no volume group currently defined.

User Response: To define the volume group for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-627 **Resource group** *HACWS resource group name* **contains no filesystem.**

Explanation: The HACWS resource group must contain a file system, and there is no file system currently defined.

User Response: To define the file system for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-628 **The HACWS resource group name resource group must contain either a /spdata or /spdata/sys1 filesystem.**

Explanation: The HACWS resource group must contain a file system whose mount point is */spdata* or */spdata/sys1*, and neither of these is among the list of file systems in the HACWS resource group.

User Response: To add an */spdata* or */spdata/sys1* file system for the HACWS resource group, see the chapter entitled: Installing and Configuring the High Availability Control Workstation in *PSSP: Installation and Migration Guide*.

2509-629 **Could not obtain list of events from HACMP.**

Explanation: Could not obtain the list of HACMP events from HACMP.

User Response: This error should be accompanied by an error message from the HACMP command **cllsev**. Investigate that error message.

2509-675 **Could not add event scripts for event event name on name of one of the control workstations.**

Explanation: The command failed to identify some HACWS event scripts to HACMP.

User Response: This error should be accompanied by an error message from the HACMP command **clchev**. Investigate that error message.

2509-680 **Could not start the *subsystem name* subsystem.**

Explanation: The command failed to start the specified subsystem.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-681 **Could not start the *subsystem group name* subsystem group.**

Explanation: The command failed to start the specified subsystem group.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-682 **The SDR is not available.**

Explanation: The SDR is not available.

User Response: Make sure that control workstation services are started on the active control workstation.

2509-683 **Could not stop the *subsystem name* subsystem.**

Explanation: The command failed to stop the specified subsystem.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-684 **Could not stop the *subsystem group name* subsystem group.**

Explanation: The command failed to stop the specified subsystem group.

User Response: This failure should be accompanied by other error messages. Investigate those messages.

2509-685 **Extra parameters are not allowed.**

Explanation: The command was called with extra command line arguments.

User Response: Run the command without extra command line arguments.

2509-686 **The *-u* and *-d* options are mutually exclusive.**

Explanation: If the *-u* option is used, the *-d* option may not be specified. If the *-d* option is used, the *-u* option may not be specified.

User Response: Enter the command with either the *-u* or *-d* option, but not both.

2509-687 **Either the *-u* or *-d* option must be specified.**

Explanation: The command requires either the *-u* or *-d* option.

User Response: Enter the command with either the *-u* or *-d* option.

2509-688 **The *-a* and *-i* options are mutually exclusive.**

Explanation: If the *-a* option is used, the *-i* option may not be specified. If the *-i* option is used, the *-a* option may not be specified.

User Response: Enter the command with either the *-a* option or *-i* option, but not both.

2509-689 **This command can only run on a control workstation.**

Explanation: This command can be executed only on the control workstation.

User Response: Run the command only on the control workstation.

2509-690 **Problem encountered with */etc/rc.hacws*.**

Explanation: This command ran the */etc/rc.hacws* script and it encountered an error.

User Response: This error should be accompanied by an error message from the */etc/rc.hacws* script. Investigate that error message.

2509-691 **Could not obtain HACWS configuration state.**

Explanation: The command could not determine the HACWS configuration state of the local machine.

User Response: Run the *Ishacws* command and investigate the results.

2509-692 **Could not start the partition sensitive subsystems.**

Explanation: The */usr/lpp/ssp/bin/syspar_ctrl* command failed.

User Response: Run the following commands and investigate the results: */usr/lpp/ssp/bin/syspar_ctrl -c* and */usr/lpp/ssp/bin/syspar_ctrl -G -A*

2509-693 **Could not stop the partition sensitive subsystems.**

Explanation: The */usr/lpp/ssp/bin/syspar_ctrl* command failed.

User Response: Run the following command and

investigate the results: `/usr/lpp/ssp/bin/syspar_ctrl -G -k`

2509-751 File collections update failed.

Explanation: The inactive control workstation failed to get a file collections update from the active control workstation.

User Response: This error should be accompanied by an error message from the **supper** command. Investigate that error message.

2509-759 Cannot run diagnostics while the hardmon subsystem is active.

Explanation: This command should run only on the inactive control workstation, where the **hardmon** subsystem is not running. This error probably means that you tried to run on the active control workstation.

User Response: Run this command only on the inactive control workstation.

Chapter 27. 2510 - Switch fault service daemon messages

Some switch fault service daemon error messages are classified according to their severity as informational (i), note (n), and error (e). These designations may appear when you receive a message, and should be noted.

2510-195 The fault service daemon got a SIGTERM signal.

Explanation: The fault service daemon was terminated by a SIGTERM signal. This is usually caused by someone issuing **rc.switch** on the node.

User Response: No user action is required. See the chapter on Diagnosing Switch Problems in *PSSP: Diagnosis Guide*.

2510-196 The fault service daemon got a SIGDANGER signal, probably because the system is low on pg space.

Explanation: The fault service daemon received a SIGDANGER signal. The usual cause of this condition is low paging space on the node.

User Response: Record the above information and contact the IBM Support Center.

2510-197 The fault service daemon got a SIGBUS signal.

Explanation: The fault service daemon received a SIGBUS signal, from an exception that occurred, while attempting to access the switch adapter. This is a likely hardware problem.

User Response: See the section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide* for more information on the Isolating Adapter and Switch Errors. An error log entire should accompany this entry with more details and information that have actions in the section on Isolating Adapter and Switch Errors.

2510-291 Error in get_enable_autounfence(), rc=rc.

Explanation: The SDR autounfence attribute could not be obtained.

User Response: Check that the SDR is operational and that the automatic unfence attribute (autounfence) is defined. Switch initialization continues with automatic unfence enabled.

2510-294 Unexpected value for autounfence: value. Automatic unfence will be enabled.

Explanation: The SDR autounfence attribute contained an invalid value.

User Response: The fault service daemon continues with automatic unfence enabled. Run the **Estart** command with the **-autounfence** flag to change the attribute value.

2510-295 automatic unfence is [enabled | disabled] (value).

Explanation: Automatic unfence is enabled or disabled as indicated.

User Response: None.

2510-299 [Eufence | Eunfence] msg received, but we are not the PRIMARY.

Explanation: A backup or secondary node received a request intended for the primary node. The most likely cause is that the SDR does not accurately reflect the primary node's hostname.

User Response: The backup or secondary node ignores the request. Run the **Eprimary** command to see the SDR's current settings for the primary and backup nodes. Run the **Estart** command to update the primary and backup names in the SDR.

2510-482 Backup didn't respond to scan.

Explanation: The primary backup Fault Service daemon did not respond to a Scan request from the primary. The backup node or Fault Service daemon may not be operational.

User Response: The administrator may want to pick a new backup node and then perform diagnosis on the failing backup node. See the chapter on Diagnosing Switch Problems in *PSSP: Diagnosis Guide* for more details.

2510-606 A switch Error/Status service packet was received during a broadcast operation.

Explanation: A switch Error/Status service packet was received by the primary node during a service packet broadcast operation. The fault service daemon takes recovery actions when this occurs.

User Response: Review other messages in the flt file, that were generated near the time-stamp of this entry, to try and isolate the root cause of the problem. If the problem persists, contact IBM Software Support.

2510-607 Timed-out waiting for acknowledgments from broadcast operation.

Explanation: The fault service daemon on the primary node timed out waiting for an acknowledgment(s) from a node or nodes, during a service packet broadcast operation. The fault service daemon takes recovery actions when this occurs.

User Response: Review other messages in the flt file, that were generated near the time-stamp of this entry to try and isolate the root cause of the problem. If the problem persists, contact IBM Software Support.

2510-651 Service library error.

Explanation: The fault service daemon's communication library returned an error.

User Response: This is not a normal condition, record the above information and contact the IBM Support Center.

2510-712 generate_service_routes() failed with rc=rc.

Explanation: The primary node failed to successfully generate service routes for the switch network. The return code from the service route generation function is also displayed. The fault service daemon on this node is terminated. On SP switch systems, the primary backup node will attempt to takeover control of the switch network.

User Response: This is not a normal condition. Record the above information and contact the IBM Support Center.

2510-714 generate_processor_routes() failed with rc=rc.

Explanation: The primary node failed to successfully generate processor (node to node) routes for the switch network. The return code from the processor route generation function is also displayed. The fault service daemon on this node is terminated.

On SP switch systems, the primary backup node will attempt to takeover control of the switch network.

User Response: This is not a normal condition. Record the above information and contact the IBM Support Center.

2510-715 SetSystemTOD() failed with rc=rc

Explanation: The primary node failed to successfully synchronize all of the Time-Of-Day counters in the switch network. The switch Time-Of-Day counters are not valid. The fault service daemon on this node is terminated.

On SP switch systems, the primary backup node will takeover control of the switch network.

User Response: This is not a normal condition. Record the above information and contact the IBM Support Center.

2510-716 downLoad_processor_route_table() failed with rc=rc.

Explanation: The fault service daemon on this node failed to download its processor to processor route table to the kernel and/or switch adapter on the primary node. The fault_service daemon is terminated. On SP switch systems, the primary backup node will take over control of the switch network.

User Response: This is not a normal condition. Record the above information and contact the IBM Support Center.

2510-720 TBIC should not be on device FIFO.

Explanation: During switch initialization the fault service daemon encountered a TBIC (node) devices on its device FIFO, when it was expecting to process a switch device. The fault_service daemon is terminated. The primary backup node will take over control of the switch network.

User Response: This is not a normal condition. Record the above information and contact the IBM Support Center.

2510-727 Node node name NOT Fenced, rc=rc.

Explanation: The specified node did not fence successfully.

User Response: See the Diagnosing Switch Problems section of *PSSP: Diagnosis Guide* for more information on this failure.

2510-730 Node node name NOT UnFenced, rc=rc.

Explanation: The specified node did not unfence successfully.

User Response: See the Diagnosing Switch Problems section of *PSSP: Diagnosis Guide* for more information on this failure.

2510-731 Device device ID did not respond. Disabling device.

Explanation: The device specified in the message, failed to respond to a service packet request from the primary node. The fault service daemon's recovery action in this instance is to remove the device from the switch network configuration.

User Response: This is not a normal condition and the IBM Support Center should be contacted. More

details can be found in the out.top file. For more information on this failure, see the section on Device and Link Problems in the Diagnosing Switch Problems chapter of *PSSP: Diagnosis Guide*.

2510-732 **Enodes does not exist, so we assume SDR is in use.**

Explanation: The fault service daemon will use the SDR data and interface.

User Response: None. The message is informational.

2510-733 **SDROpenSession failed with a return code** *return code*.

Explanation: The SDROpenSession function failed with specified return code.

User Response: For more information, see the Diagnosing SDR Problems section in *PSSP: Diagnosis Guide*.

2510-734 **SDRSetClass failed with a return code** *return code*.

Explanation: The SDRSetClass function failed with specified return code.

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-735 **SDRAddIntAttrValue failed with a return code** *return code*.

Explanation: The SDRAddIntAttrValue function failed with the specified return code *return code*.

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-736 **SDRAddStringAttrValue failed with a return code** *return code*

Explanation: The SDRAddStringAttrValue function failed with the specified return code *return code*

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-737 **SDRChangeAttrValues failed with a return code** *return code*.

Explanation: The SDRChangeAttrValues function failed with the specified return code *return code*.

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-738 **SDRGetObjects failed with a return code** *return code*.

Explanation: The SDRGetObjects function failed with specified return code.

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-739 **SDRFindAttrInObject failed with a return code** *return code*.

Explanation: The SDRFindAttrInObject function failed with specified return code.

User Response: For more information, see the Diagnosing SDR Problems section of *PSSP: Diagnosis Guide*.

2510-740 **Packet Sequence Number = packet sequence number** **Switch Time-Of-Day=time of day value.**

Explanation: The packet sequence number and switch Time-Of-Day contained in a switch packet.

User Response: None. The message is informational.

2510-741 **Second Error Capture Registers = XX**
XX
XX XX XX XX XX XX XX XX XX XX XX.

Explanation: The Second Error Capture Registers contain detailed information on errors detected by a switch chip. There is a byte for each type of error that contains either the number of the port that the error was detected on, or additional information on the type of error.

User Response: None. The message is informational.

2510-742 **Transmitting a Reset Error packet;**
Route = route, Recv Error Resets =
receiver error resets, Sender Error
Resets = sender error resets, Central
Queue Resets = central queue resets,
Service Logic Resets = service logic
resets.

Explanation: Switch recovery transmitted a Reset Error packet to a switch chip with specified fields. A Reset Error packet resets a switch chip's first and second error capture registers.

User Response: None. The message is informational.

2510-743 **Disabling port port number of chip chip**
on the switch in slot slot number of
frame frame number

Explanation: Switch recovery code disabling a port on the switch as a recovery action.

User Response: None. This message is informational about a recovery action that was taken. If the port that was disabled is not a Device that was intentionally powered off then contact IBM Hardware service.

2510-746 Error/Status packet received prior to database construction, device id=*ID*.

Explanation: An Error/Status packet was received before the switch was initialized. The switch must be initialized before switch recovery will take place.

User Response: This is an abnormal condition Record the above information and contact the IBM Support Center.

2510-747 Transmitting a Read Status packet; Route=*route*, Device ID=*device ID*.

Explanation: Switch recovery transmitted a Read Status packet to a device with the specified device ID. A Read Status packet queries a device for its current error and status information.

User Response: None. The message is informational.

2510-748 The backup node (ID=*ID*) has been removed from the switch network.

Explanation: The Primary backup node has been fenced from the switch. A new Primary backup node was chosen.

User Response: None. The message is informational.

2510-749 Turning off switchResponds bits for node *node number* in the SDR.

Explanation: Turning off bits in the switch_responds class in the SDR.

User Response: None. This message informs of a switch_responds bit for a Device or Node being turned off.

2510-754 Time out on receive of duplicate packet.

Explanation: Only one of two responses to a service packet was received.

User Response: None. The message is informational.

2510-757 Unable to locate an entry for device *Device ID* in the database.

Explanation: Unable to locate an entry for the specified device in the device database. This should not occur during normal operation.

User Response: Abnormal condition, contact IBM Software Support.

2510-758 Unable to retrieve a service route for device *device ID*.

Explanation: No switch route exists to device ID specified. This should not occur during normal operation.

User Response: Abnormal condition, contact IBM Software Support.

2510-759 Error count threshold has been exceeded, initiating recovery action(s).

Explanation: A switch device has exceeded its error threshold. The switch recovery action will disable the faulty link or device.

User Response: If the switch device that the error threshold was exceeded for was not intentionally removed or powered off, then contact IBM Hardware service.

2510-760 Error Capture Register (*First or Second*), location string (*frame-slot-connector type-jack number*), *Chip* and *Port* number. Incorrect EDC.

Explanation: An EDC error has been detected by a switch chip. A likely cause for this error is that the device on the other side of the link has been powered down, reset, or rebooted. Other possible causes are that the data cable is faulty or not properly seated in the connectors. An EDC error indicated that data was corrupted when transmitted over a data link.

User Response: If this message continues to be logged, bring it to the attention of IBM Hardware service. For details, see the chapter on Diagnosing Switch Problems in *PSSP: Diagnosis Guide*.

2510-761 Error Capture Register (*First or Second*), location string (*frame-slot-connector type-jack number*), *Chip* and *Port* number. Parity Error on Route.

Explanation: A parity error has been detected on a route byte by the identified switch chip. A possible cause for the error is that there is noise on the specified link. Another likely cause is a problem in route generation.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-762 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **Undefined Control Char.**

Explanation: An Undefined Control Character has been detected by a switch chip. A likely cause for the error is that the device on the other side of the link has been powered down, reset, or rebooted. Other possible causes are that the data cable is faulty or not properly seated in the connectors.

User Response: If this message continues to be logged, bring it to the attention of IBM Hardware service.

2510-763 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **Unsolicited Data.**

Explanation: Unsolicited Data has been detected by the identified switch chip.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-764 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **Receiver Lost EOP.**

Explanation: The loss of an End-of-Packet Character has been detected by the identified switch chip.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-765 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **STI Route Violation.**

Explanation: A route violation has been detected on the identified switch.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-766 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **STI Data Re-Time Req.**

Explanation: A STI Data Re_Time Request has been detected by the identified switch chip.

User Response: None. The message is informational.

2510-767 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **Recv Link Sync Failure.**

Explanation: A Receiver Link Synchronization Failure has been detected by a switch chip. A likely cause for the error is that the device on the other side of the link has been powered down, reset, or rebooted. Other possible causes are that the data cable is faulty or not properly seated in the connectors.

User Response: Consult the section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide* and check device on the other end of the link. If it was not intentionally powered off, rebooted or disconnected then contact IBM Hardware support.

2510-768 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **FIFO Overflow.**

Explanation: A FIFO overflow has occurred on the identified switch chip.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-769 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **Token Count Mismatch.**

Explanation: A Token Count Mismatch has been detected by the identified switch chip.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-770 **Error Capture Register** (*First or Second*), **location string** (*frame-slot-connector type-jack number*), *Chip and Port number*. **EDC Error Threshold.**

Explanation: An EDC Threshold Error has been detected by the chip. A likely cause for the error is that

the device on the other side of the link has been powered down, reset, or rebooted.

Other possible causes are that the data cable is faulty or not properly seated in the connectors. This error indicates that the number of errors reported by a switch chip has exceeded its threshold. An EDC error indicates data was corrupted when transmitted over a link.

User Response: Consult section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide* and check device on the other end of the link. If it wasn't intentionally powered off, rebooted or disconnected then contact IBM Hardware service.

2510-771 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Recv State Machine.

Explanation: A receiver state machine error has been detected by the identified switch chip.

User Response: Abnormal condition detected by hardware. Contact IBM Hardware service with the message number and text.

2510-772 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Parity error on data.

Explanation: A data parity error has been detected by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-773 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Incorrect Token Seq.

Explanation: An incorrect token sequence has been detected by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-774 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Sender Invalid Route.

Explanation: A An invalid route has been detected by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-775 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Sender Lost EOP.

Explanation: A lost End-of-Packet Character has been detected by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-776 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. STI Token Re-Time Req.

Explanation: An STI Token Re-Time Request has been detected by a switch chip. A likely cause for the error is that the device on the other side of the link has been powered down, reset, or rebooted.

User Response: None. The message is informational.

2510-777 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Token Count Overflow.

Explanation: A token count overflow has occurred on the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-778 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Send Link Sync Failure.

Explanation: A Sender link Synchronization Failure has been detected by a switch chip. A likely cause for the error is that the device on the other side of the link has been powered down, reset, or rebooted. Other possible causes are that the data cable is faulty or not properly seated in the connectors.

User Response: Consult section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide* and check device on the other end of the link. If it wasn't intentionally powered off, rebooted or disconnected then contact IBM Hardware support.

2510-779 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Sender State Machine.

Explanation: A sender state machine error has been detected by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-780 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Next Message LL Parity.

Explanation: A parity error has been detected on the next message linked list in the central queue by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-781 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Next Chunk LL Parity.

Explanation: A parity error has been detected on the next chunk linked list in the central queue by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-782 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Next Chunk LL not Init.

Explanation: The next chunk linked list in the central queue has not been initialized in the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-783 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Incorrect CRC.

Explanation: An incorrect CRC has been detected on a service packet by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-784 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Inbound FIFO Parity.

Explanation: A parity error has been detected in the inbound FIFO on the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-785 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Route Table Parity.

Explanation: A parity error has been detected in the route table by the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-786 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Invalid Link Enable.

Explanation: An invalid link enable setting has been detected on the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-787 Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Send TOD.

Explanation: A switch chip received a service command to distribute its Time-of-Day value before it was valid.

User Response: Abnormal condition detected contact IBM Software Support.

2510-788 **Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Svc Logic State Machine.**

Explanation: A Service Logic State Machine error has been detected on the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-789 **Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Service Packet Length.**

Explanation: The identified switch chip received a service packet of incorrect length.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-790 **Error Capture Register (First or Second), location string (frame-slot-connector type-jack number), Chip and Port number. Token Error Threshold.**

Explanation: Token error threshold has been crossed on the identified switch chip.

User Response: Abnormal condition detected by switch hardware. Contact IBM Hardware service with the message number and text.

2510-791 **An Error/Status packet with no errors indicated was present by the switch in Frame, Slot, Chip, Port, Device ID.**

Explanation: An Error Status packet was received from a switch chip with no errors indicated. Device ID indicated has been cleared of errors.

User Response: None. The message is informational.

2510-792 **Port should have been in Disabled state.**

Explanation: The port is in an enabled state when it is expected to be disabled.

User Response: SP Switch Error Recovery has taken the appropriate action.

2510-793 **First Error Capture Register = First Error Capture Register**

Explanation: The SP Switch First Error Capture Register bits indicate which error condition was detected by the switch chip.

User Response: Review other messages logged in the flt near the time of this entry. The First Error Capture Register is used to report errors detected by the switch.

2510-798 **Disabling Switch Chip - Device ID=device id.**

Explanation: SP Switch chip with the specified device ID has been disabled. It is no longer an active part of the switch network. The chip either did not respond or report unrecoverable errors to the Primary fault service daemon. Switch traffic will be routed around the disabled chip.

User Response: Consult section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide*.

2510-810 **Fault service daemon personality changed to Secondary.**

Explanation: The personality of the node's fault service daemon was changed to Secondary. Logging node no longer acting as switch Primary node.

User Response: None. The message is informational.

2510-811 **Fault service daemon's personality has been changed to Primary.**

Explanation: Fault service daemon's personality has been changed to Primary. This node is now acting as the Primary node. For a summary of current fault service daemon personalities, run **Eprimary**.

User Response: None. The message is informational.

2510-812 **Backup node starting as Primary node take-over.**

Explanation: The Primary Backup node has timed-out waiting for the Primary node to contact it. The Primary Backup is starting Primary node take-over.

User Response: None. The message is informational. Eprimary can be executed to find out which nodes are designated Primary and Backup.

2510-813 **Primary Backup node completed Primary node take-over.**

Explanation: Primary backup node has completed Primary node take-over and is now the Primary node. For a summary of current systems fault service daemon personalities, run **Eprimary**.

User Response: None. The message is informational. Eprimary can be executed to find out which nodes are designated Primary and Backup.

2510-814 Port disable for fence of node *node name* completed.

Explanation: The disabling of the switch port for fence has completed successfully.

User Response: None. The message is informational.

2510-815 Port enable for unfence of node *node name* completed.

Explanation: The enabling of the switch port for unfencing a node has completed successfully.

User Response: None. The message is informational.

2510-816 Switch recovery timed-out waiting for an Error/Status packet from switch. Estart will be executed.

Explanation: Switch recovery timed-out waiting for an Error/Status packet. **Estart** will be executed as a recovery action.

User Response: None, because a recovery action was taken. If the message continues to get logged, contact IBM Software Support.

2510-817 A switch link or chip has been disabled internal to the network. Estart will be executed.

Explanation: A switch link or chip has been disabled internal to the network. **Estart** will be executed as a recovery action. **Estart** will update switch routing tables to avoid using disabled link or chip.

User Response: None, because a recovery action was taken. If the message continues to get logged, contact IBM Software Support.

2510-818 Switch Scan failed with a return code of *return code*. Estart will be executed.

Explanation: The Primary fault service daemon periodically scans the switch network for errors. The scan detected a problem and as a result, **Estart** will be executed as a recovery action.

User Response: None, because a recovery action was taken. If the message continues to get logged, contact IBM Software Support.

2510-819 Changing remote node's personality to be the Primary backup failed. Return code equals *return code*. Estart will be executed.

Explanation: The Primary fault service daemon failed trying to change a node's personality to Primary backup. **Estart** will be executed.

User Response: None, because a recovery action was taken. If the message continues to get logged, contact IBM Software Support.

2510-820 Primary's link to the switch network is not in the initialized state.

Explanation: **Estart** found that the link to switch network was not initialized and was unable to run. The probable causes are that the node is fenced at the switch end of the link, the switch is improperly clocked, or the switch data cable is disconnected.

User Response: Use the Eprimary command to assign a new switch primary node then run Estart. If assigning a new primary does not work then running Eclock may fix the problem.

2510-821 The second phase of the switch initialization will be retried.

Explanation: The second phase of the switch initialization will be retried because of errors. The second phase of the switch initialization clears error bits and sets up service routes to the primary.

User Response: None. The message is informational.

2510-822 The second phase of the switch initialization reached retry limit. Estart failed.

Explanation: The second phase of switch initialization has reached it's retry limit. The second phase of the switch initialization clears error bits and sets up service routes to the primary. **Estart** failed.

User Response: Contact IBM Software Support.

2510-823 The fault service daemon process has exited.

Explanation: The fault service daemon process has exited.

User Response: Attempt to restart the fault service daemon by running /usr/lpp/ssp/css/rc.switch on the node. If the message continues to be logged contact IBM Software Support.

2510-824 Switch initialization will be executed.

Explanation: Switch initialization (**Estart**) will be executed.

User Response: None. The message is informational.

2510-825 Retry limit exceeded for device ID=*id*. Disabling the device.

Explanation: Retry limit for the device ID specified has exceeded the limit. The specified device will be disabled as a recovery action.

User Response: Contact IBM Hardware service.

2510-826 Device id *id* uninitialized during switch initialization. Disabling the device.

Explanation: The device ID specified was uninitialized during switch initialization. The specified device will be disabled as a recovery action.

User Response: None. The message is informational.

2510-827 Unable to set Time-Of-Day for device ID *id*. Disabling the device.

Explanation: Unable to set Time-Of-Day for the specified device. Device will be disabled as a recovery action.

User Response: None, because a recovery action was taken. If the message continues to be logged, contact IBM Software Support.

2510-828 Error register bits found on device ID *id*. Disabling the device.

Explanation: Error register bit were found for the specified device. Device will be disabled as a recovery action.

User Response: None, because a recovery action was taken. If the message continues to be logged, contact IBM Software Support.

2510-829 Device ID *id* port *port* has been disabled.

Explanation: The port on the device specified has been disabled because of an error reported by the link. This link will not be used.

User Response: None, because a recovery action was taken. If the message continues to be logged, contact IBM Software Support.

2510-830 Switch port from Device *device ID* port mask *0x portmask* stuck.

Explanation: The specified device port did not go into disabled state. The most probable cause is that data remains in one of the ports specified in the port mask.

User Response: This is an abnormal condition detected by the primary fault service daemon. Record the above information and collect CSS snap dumps with the time of the failure from all nodes on the system. Contact the IBM Support Center.

2510-831 Nodes attached to Device *device ID* not reachable for auto-join.

Explanation: The nodes attached to the specified device can not be auto-joined because it is not initialized.

User Response: See `/var/adm/SPlogs/css/flt` and `out.top` files on the primary node for details on why the attached device is not initialized.

2510-832 Node *node id* failed *number of autojoin attempts* consecutive autojoin attempts. The node put into the fenced-without-autojoin state.

Explanation: The primary node attempted to autojoin a node a number of times until it reached a threshold. The node was then put into the fenced-without-autojoin state.

User Response: Check that the specified node is fully operational. If it is, collect the CSS snap dumps from the node, record the above information and contact the IBM Support Center.

2510-833 Switch port from Device *device ID* port *portmask* stuck.

Explanation: The specified device did not respond. The most probable cause is that data is stuck in one of the ports specified in the port mask.

User Response: This is an abnormal condition detected by the primary fault service daemon. Record the above information and collect CSS snap dumps with the time of the failure from all nodes on the system. Contact the IBM Support Center.

2510-834 Node *reliable hostname* isolated because its switch port is stuck.

Explanation: The specified node has been isolated because an error has been found on its switch port.

User Response: This is an abnormal condition detected by the primary fault service daemon. Record the above information and collect CSS snap dumps with the time of the failure from all nodes on the system. Contact the IBM Support Center.

2510-893 Error found in handleFence().

Explanation: Fence failed to fence nodes.

User Response: See the section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide*.

2510-894 Error found in handleUnfence().

Explanation: Unfence failed to unfence nodes. **Estart** is executed as a recovery action.

User Response: See the section on Diagnosing Switch Problems in *PSSP: Diagnosis Guide*.

2510-897 dist_to_bootservers failed during auto-unfence rc = *errno*.

Explanation: The `dist_to_bootservers` command issued on the primary node returned a failing return code.

User Response: Examine the `/var/adm/SPlogs/css/dist_topology.log` file on the Primary node for reasons why the command failed.

2510-906 Scan detected a problem with device *device ID*.

Explanation: Scan detected a problem with the specified device. "Scan" periodically check the switch for unreported errors.

User Response: This is an abnormal condition detected by the fault service daemon. Record the above information and contact the IBM Support Center.

2510-913 Resigning from being Primary node.

Explanation: The Primary node was unable to scan the switch network. Therefore, it is resigning from being the Primary node and the Primary backup node will take over.

User Response: None. The message is informational.

2510-914 Number of Node timeouts exceeded threshold.

Explanation: Network Scan failed. It periodically checks the network for unreported errors.

User Response: An abnormal condition was detected by the fault service daemon. Record the above information and contact the IBM Support Center.

2510-915 Number of Switch timeouts exceeded threshold.

Explanation: Network scan failed because the number of errors found during scan exceeded the threshold. Network scan periodically checks the network for unreported errors.

User Response: An abnormal condition was detected by the fault service daemon Record the above information and contact the IBM Support Center.

2510-916 Number of Errors discovered exceeded threshold.

Explanation: Network scan failed because the number of errors found during the scan exceeded the threshold. Scan periodically checks the network for unreported errors.

User Response: Abnormal condition detected be fault service daemon, contact IBM Software Support with message number and text.

2510-917 Number of disabled Links exceeded threshold.

Explanation: Network scan failed because the number of disabled links found during scan exceeded the threshold.

User Response: Abnormal condition detected by fault service daemon, contact IBM Software Support with message number and text.

2510-918 Interrupt Error Register = *TB3 Interrupt Error Register*.

Explanation: The switch adapters Interrupt Error Register bits indicate which error conditions were detected by the adapter.

User Response: None. The message is informational.

2510-919 Bad Device Signature detected. Device *id = device ID*.

Explanation: A switch chip incorrect self-test signature was detected during switch initialization or recovery. Any new or replaced switch should be suspected of causing this error.

User Response: Abnormal condition, contact IBM Hardware service.

2510-921 Timeout occurred waiting for pending Error/Status packet.

Explanation: Timeout waiting for response from device, during switch recovery or initialization.

User Response: None, because a recovery action was taken. If the message continues to appear in the log, record the above information and contact the IBM Support Center.

2510-922 **Detected failure of intermediate port**
port number jack number of chip chip ID
on the switch in slot slot number of
frame frame number.

Explanation: Switch recovery has detected a failure with a switch-to-switch link/port/cable. **Estart** is executed as a recovery action.

User Response: None, because a recovery action was taken. If the message continues to get logged, contact IBM Software Support.

2510-925 **Retry limit for Time-Of-Day**
synchronization exceeded.

Explanation: Retry limit for Time-Of-Day synchronization exceeded. Switch clock may not be synchronized and switch is not initialized.

User Response: This is an abnormal condition. Record the above information and contact IBM Hardware support.

Chapter 28. 2511 - Job Switch Resource Table Services messages

2511-100 Could not get node names from the SDR, `get_node_names()` failed.

Explanation: The `get_node_names` function returned -1. An error occurred accessing the SDR.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-101 Received unknown return code (`return_code`) from `swtbl_status` API.

Explanation: The `st_status` API returned an undefined return code.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-102 Please specify only one `-n` flag.

Explanation: The `-n` flag was specified more than once on the command line.

User Response: Issue the command again with correct syntax.

2511-103 The specified flag `invalid_flag` is not valid.

Explanation: A flag that was not valid was specified on the command line.

User Response: Issue the command again with correct syntax.

2511-104 Node group `node_group_name` returned an empty `hostnameList`.

Explanation: The node group name `node_group_name` specified had no members defined for it.

User Response: Issue the command again with a valid node group name.

2511-105 Please specify `-n` without additional `node_names`.

Explanation: The `-n` node group name was specified with other standalone node names.

User Response: Issue the command again with correct syntax.

2511-106 The `get_node_ip_addr()` call failed trying to access the Adapter class within the SDR.

Explanation: The `get_node_ip_addr` call failed to read the `Adapter` class within the SDR.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information. Perform standard SDR problem determination.

2511-107 Node group `node_group_name` does not exist.

Explanation: The specified node group name was not found by `SpNodeGroup Contains`.

User Response: Issue the `nglist` command to get valid node group names and issue the `st_status` command again.

2511-108 Unable to activate node group `node_group_name`.

Explanation: The `nodegroup.activate` call failed.

User Response: Validate the node group exists, and check to see if the `ngresolve` command works. Otherwise, contact the IBM Support Center.

2511-109 Unable to initialize Perspectives. Cannot process node group.

Explanation: The `SpAppEnv::Initialize()` call failed.

User Response: Investigate perspectives diagnostic and recovery steps.

2511-110 The `get_sdrinfo()` call failed. Unable to resolve node names.

Explanation: The `get_sdrinfo()` call failed.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-200 `connect_st` failed for `nodeinfo.st_node_name`.

Explanation: Could not connect to the `st_node_name` `nodeinfo.st_node_name` specified.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-201 **writestr failed for socket**
socket_number.

Explanation: The `writestr()` call failed while trying to write to this socket.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-202 **Wrong message type received from daemon : msg_type=message_type.**

Explanation: A message type that was not valid was received over the socket.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-203 **The unload request for node**
nodeinfo.st_node_name window id failed. rc=return_code.

Explanation: The `swtbl_clean_table` API returned with the specified return code.

User Response: Check the `/var/adm/SPlogs/st/st_log` file for more information. The return codes are explained in the `st_client.h` header file.

2511-204 **readstr failed for socket** *socket_number.*

Explanation: The `readstr()` call failed while trying to read from this socket.

User Response: Check the `/var/adm/SPlogs/st/st_log` for more information.

2511-205 **The node or address specified**
(nodeinfo.st_node_name) is not valid.

Explanation: Either a node name or IP address that was not valid was specified.

User Response: Issue the command again with a valid name or address.

2511-206 **Effective user id must be root to execute.**

Explanation: A user other than root tried to execute the command.

User Response: Issue command again as root.

2511-208 **Error getting port number for the switchtbl.**

Explanation: The `getservbyname` system call failed to get the port number for the switchtbl from the `/etc/services` directory.

User Response: Update the `/etc/services` with the correct switchtbl entry.

2511-209 **No window id was specified.**

Explanation: No window id was specified with the `-w` flag.

User Response: Reissue the command with the correct syntax.

2511-210 **No adapter name was specified.**

Explanation: No adapter name was specified with the `-a` flag.

User Response: Enter the command again using the correct syntax.

2511-300 **Directory** *directory_name* **does not exist**
...FAIL.

Explanation: The directory listed was not found on this system.

User Response: Investigate the installation errors and install again. Check to make sure that the `ssp.st` file set was installed.

2511-301 **File** *file_name* **does not exist** *...FAIL.*

Explanation: The file name *file_name* was not found on this system.

User Response: Investigate the installation errors and install again. Check to make sure that the `ssp.st` file set was installed.

2511-302 **Link** *link_name* **does not exist** *...FAIL.*

Explanation: The link name listed was not found on this system.

User Response: Investigate the installation errors and install again. Check to make sure that the `ssp.st` file set was installed.

2511-303 **Port number for switchtbl in** *file_name* **is not** *port_address* *...FAIL.*

Explanation: The port address defined for the switchtbl was not defined in the file name *file_name*.

User Response: Investigate the installation errors and install again. Check to make sure that the `ssp.st` file set was installed.

2511-304 **Entry for switchtbl does not exist in**
file_name *...FAIL.*

Explanation: The switchtbl entry does not exist within the reported file *file_name*.

User Response: Investigate the installation errors and install again. Check to see that the `ssp.st` file set was installed.

2511-305 Unable to verify *object_name* ...FAIL.

Explanation: Tried to check an unknown object *object_name*. This should be a file name, directory name or link name.

User Response: Issue the **st_verify** command again, and if it fails again, report it to the IBM Support Center.

2511-306 Entry for **st_set_switch_number does not exist in *file name*, ...FAIL.**

Explanation: The **st_set_switch_number** entry does not exist in the file reported.

User Response: Investigate installation errors and reinstall. Check that the **ssp.st** file set was installed.

2511-500 Authentication of the client failed.

Explanation: The user of this command or API function could not be authenticated by DCE.

User Response: Check other messages returned to see if they indicate why authentication failed. The client may not have valid credentials. If that is the case, the client should do a **dce_login** to obtain credentials.

2511-501 Requested operation requires *authority type authority*.

Explanation: The user of this command or API function is not a member of the proper **ssp/switchtbl/clean**, **ssp/switchtbl/load**, or **ssp/switchtbl/status** group in the **spsec_defaults** file. The message indicates which group the user must be in. DCE authorization of the user failed.

User Response: Check other messages returned to see if they indicate why authentication failed. The client may not have valid credentials. If that is the case, the client should do a **dce_login** to obtain credentials.

2511-502 Security function() *failing security function failed on host hostname - information about the failure.*

Explanation: A security services function failed.

User Response: Retry the command. If the problem continues verify that your DCE security set up is correct. The message may give information that will prove useful in determining if something is wrong in the security set up. If the problem can not be resolved, report the problem to IBM.

2511-503 Unable to read from a socket on host *hostname* - return code=*return code*, errno=*error number*, error description.

Explanation: While performing a read operation on a socket a failure occurred. The **switchtbl** server may have ended unexpectedly.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-504 Unable to write to a socket on host *hostname* - return code=*return code*, errno=*error number*, error description.

Explanation: While performing a write operation on a socket a failure occurred. The **switchtbl** server may have ended unexpectedly.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-505 Communication error on host *hostname* - expected=*expected value*, received=*received value*.

Explanation: The client and the **switchtbl** server could not communicate with each other.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-506 Unable to obtain storage for an operation on host *hostname*, errno=*error number*, error description.

Explanation: An attempt to obtain memory for the operation failed.

User Response: Retry the command. If the problem continues check to see if the host is overloaded and if it has sufficient memory for the work that is being performed.

2511-507 Failure doing a select function on host *host on which the select failed* return code=*return code by select*, errno=*errno value associated with the error*, error value text description.

Explanation: While performing a select operation to wait for a message from a client or server a failure occurred.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-508 Time out while waiting for a response from host *hostname*.

Explanation: A client or server did not respond quickly enough.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-509 **The server on host *hostname* is enabled for DCE security, but the client is not running with DCE security.**

Explanation: While attempting to authenticate and authorize the client, it was discovered that the client was not enabled for authorization with DCE, but the only authorization method the server was enabled for was DCE security.

User Response: Either the authorization mode of the server must be changed to support compatibility mode, or the authorization mode of the client must be changed to support DCE.

2511-510 **The client is enabled for DCE security, but the server on host *hostname* is not running with DCE security.**

Explanation: While attempting to authenticate and authorize the client, it was discovered that the client could only be authorized using DCE, but the server was not enabled for DCE.

User Response: Either the authorization mode of the client must be changed to support compatibility mode, or the authorization mode of the server must be changed to support DCE.

2511-511 **The effective user id of the client must be root.**

Explanation: The server is running in compatibility mode, but the client could not be authorized because it must have root authority.

User Response: Attempt the command or API call from a user id with root authority.

2511-512 **The client is enabled for DCE security, but the server on host *hostname* does not support DCE security.**

Explanation: While attempting to authenticate and authorize the client, it was discovered that the client could only be authorized using DCE, but the server is an old version of the server that does not support DCE security.

User Response: The switchtbl server should be updated to the new version which supports DCE security.

2511-513 **No security services token could be obtained on host *hostname*.**

Explanation: While attempting to initialize security services, the client or server was unable to obtain a security services token.

User Response: Retry the command. If the problem continues report the problem to IBM.

2511-514 **Requested operation requires *authority type* authority, or the effective user id of the client must be root.**

Explanation: The user of this command or API function is not a member of the proper ssp/switchtbl/clean, ssp/switchtbl/load, or ssp/switchtbl/status group in the spsec_defaults file. The message indicates which group the user must be in. DCE authorization of the user failed. In addition, compatibility mode is supported so that the operation would have succeeded if the user had been the root user.

User Response: Check other messages returned to see if they indicate why authentication failed. The client may not have valid credentials. If that is the case, the client should do a dce_login to obtain credentials. In addition, the client will be able to use the function without DCE authorization if it is run under the root user id.

Chapter 29. 2515 - Problem Management messages

2515-001 **Could not allocate memory: AIX system error message.**

Explanation: An attempt to allocate memory failed. The AIX system error message should indicate the cause of the error. In most cases, this error occurs because the node has run out of paging space.

User Response: Correct the problem and restart the subsystem.

2515-002 **Time limit expired while attempting to read from the SDR.**

Explanation: An attempt to read data from the SDR exceeded a set time limit.

User Response: If this error occurs several times, check for a problem with the SDR server.

2515-003 **Failed to establish communication with the SDR: SDR error message.**

Explanation: A problem occurred while attempting to communicate with the SDR. The SDR error message should indicate the cause of the error.

User Response: Refer to the SDR error message for further details. After this error is encountered, the subsystem keeps trying to communicate with the SDR. Once the SDR problem is corrected, the next attempt to communicate with it succeeds, and no further action is required.

2515-004 **Established communication with the SDR: Previous problem has been resolved.**

Explanation: A problem which had been preventing successful communication with the SDR has been resolved.

User Response: No action is required.

2515-005 **Could not obtain list of local network interfaces from the SDR: SDR error message.**

Explanation: A problem occurred while attempting to read the contents of the **Adapter** class from the SDR. The SDR error message should indicate the cause of the error.

User Response: Refer to the SDR error message for further details. Correct the problem and restart the subsystem.

2515-006 **The SDR SDR class name class does not contain the SDR attribute name attribute.**

Explanation: The specified attribute is missing from the specified SDR class. This may indicate an improper or incomplete PSSP installation on the control workstation, or this may indicate data corruption in the SDR.

User Response: Record the above information and contact the IBM Support Center.

2515-007 **The gethostname function failed: AIX system error message.**

Explanation: A call to the **gethostname** function failed. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem and restart the subsystem.

2515-008 **Could not obtain the IP address for host Hostname.**

Explanation: The IP address for the specified host could not be resolved.

User Response: Make sure that name resolution works for the specified host.

2515-009 **Could not obtain a node group definition from the SDR: SDR error message.**

Explanation: A problem occurred while attempting to read the contents of the **NodeGroup** class from the SDR. The SDR error message should indicate the cause of the error.

User Response: Refer to the SDR error message for further details.

2515-010 **Could not create log file Log file name: AIX system error message.**

Explanation: The specified log file could not be created. The AIX system error message should indicate the cause of the error. The subsystem continues to run without writing to the log file, and error entries continue to be written to the AIX error log.

User Response: Correct the problem. Stop and restart the subsystem.

2515-011 **Could not create an output stream for log file** *Log file name: AIX system error message.*

Explanation: An output stream could not be created for the specified log file. The AIX system error message should indicate the cause of the error. The subsystem continues to run without writing to the log file, and error entries continue to be written to the AIX error log.

User Response: Correct the problem. Stop and restart the subsystem.

2515-012 **The owner of subscription** *Subscription handle name* **has not been authorized to write to the AIX error log and BSD syslog facilities.**

Explanation: An error log entry was not written to the AIX error log and BSD syslog facilities in response to a user-defined event. This is because the subscription owner does not have root access to the node where the error log entry was to be written.

User Response: If the user can login to the node as root, authorization may be obtained by making the appropriate changes to one of the */.k5login*, */.klogin* or */.rhosts* files, depending on how PSSP trusted services security has been configured. Consult the Problem Management documentation for further details.

2515-013 **Reliable daemon initialization failed:** *Reliable daemon library error message.*

Explanation: The subsystem uses the reliable daemon library facility to perform standard daemon initialization tasks. In this case, the reliable daemon library encountered an error. The reliable daemon library error message describes the error.

User Response: Correct the problem that is described by the reliable daemon library error message, and restart the subsystem.

2515-014 **Could not read the subscription named** *Subscription handle name* **from the SDR:** *SDR error message.*

Explanation: A problem occurred while attempting to read the specified subscription from the **PMAN_Subscription** class in the SDR. The SDR error message should indicate the cause of the error.

User Response: Refer to the SDR error message for further details.

2515-015 **Unexpected error from the** *Name of system call* **system call:** *AIX system error message.*

Explanation: There was an unexpected error from the specified system call. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem and restart the subsystem.

2515-016 **Cannot execute command for subscription** *Subscription handle name*, **because the target AIX user** *AIX user name* **does not exist.**

Explanation: The subsystem could not run a command as the specified target AIX user. This is because the target AIX user does not exist on the node where the command is to run.

User Response: Either add the missing AIX user to the node where the command is to run, or re-create the subscription with a different target AIX user.

2515-017 **Cannot execute command for subscription** *Subscription handle name*, **because login restrictions prevent the target AIX user** *AIX user name* **from running:** *AIX system error message.*

Explanation: The subsystem could not run a command as the specified target AIX user, because login restrictions prevent the target AIX user from running on the node where the command is to run. The AIX system error message explains the nature of the target AIX user's login restriction.

User Response: Either remove the AIX user's login restriction on the node where the command is to run, or re-create the subscription with a different target AIX user.

2515-018 **Cannot execute command for subscription** *Subscription handle name*, **because the subscription owner is not authorized to run as the target AIX user** *AIX user name*.

Explanation: The subsystem could not run a command as the specified target AIX user, because the subscription owner has not been authorized by the target AIX user on the node where the command is to run.

User Response: If the subscription owner can login to the node where the command is to run, as the target AIX user, authorization may be obtained. Make the appropriate changes to one of the *\$HOME/.k5login*, *\$HOME/.klogin* or *\$HOME/.rhosts* files, depending on how PSSP trusted services security has been configured. Consult the Problem Management documentation for further details.

2515-019 **Cannot execute command for subscription** *Subscription handle name due to an unexpected error from the Name of system call* **system call:** *AIX system error message.*

Explanation: The subsystem could not run a user's command, because there was an unexpected error from the specified system call. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem that is indicated by the AIX system error message.

2515-020 **Could not obtain the configured set of AIX remote command authorization methods.**

Explanation: A problem prevented the subsystem from obtaining the configured set of AIX remote command authorization methods.

User Response: This problem should also cause the **Isauthent** AIX command to fail and issue an error message. Run the **Isauthent** command and refer to its error message for further details.

2515-021 **Could not obtain name of current SP system partition.**

Explanation: A problem prevented the subsystem from obtaining the name of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar -n** to fail and issue an error message. Run this command and refer to its error message for further details. Correct the problem and restart the subsystem.

2515-022 **Could not obtain IP address of current SP system partition.**

Explanation: A problem prevented the subsystem from obtaining the IP address of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar** to fail and issue an error message. Run this command and refer to its error message for further details. Correct the problem and restart the subsystem.

2515-023 **Could not receive input request from a client command:** *AIX system error message.*

Explanation: The subsystem could not receive a client input request, because there was an unexpected error from the **read()** system call. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem that is indicated

by the AIX system error message.

2515-024 **Could not send output back to a client command:** *AIX system error message.*

Explanation: The subsystem could not send the output from a command request back to a client command, because there was an unexpected error from the **write()** system call. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem that is indicated by the AIX system error message.

2515-025 **Could not start a session with SP Security Services:** *SP Security Services error message.*

Explanation: A problem occurred while attempting to start a session with the SP Security Services Library. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details. Correct the problem and restart the subsystem.

2515-026 **Could not renew Distributed Computing Environment (DCE) login session as service principal** *DCE service principal: SP Security Services error message.*

Explanation: A problem prevented the subsystem from renewing its DCE login session. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details. Correct the problem and restart the subsystem.

2515-027 **Could not establish a DCE login session:** *SP Security Services error message.*

Explanation: A problem prevented the subsystem from establishing a DCE login session. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details. Correct the problem and restart the subsystem.

2515-028 **Could not determine DCE login context:** *SP Security Services error message.*

Explanation: A problem prevented the subsystem from determining whether it has established a DCE login session. The SP Security Services error message

should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details. Correct the problem and restart the subsystem.

2515-029 Could not terminate a session with SP Security Services: *SP Security Services error message.*

Explanation: A problem occurred while attempting to terminate a session with the SP Security Services Library. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details.

2515-030 Could not convert DCE principal *User's DCE principal to Kerberos V5 format: SP Security Services error message.*

Explanation: A problem prevented the subsystem from converting the specified DCE principal into its underlying Kerberos V5 principal. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details.

2515-031 Could not obtain the configured set of PSSP trusted services authorization methods: *SP Security Services error message.*

Explanation: A problem prevented the subsystem from obtaining the configured set of PSSP trusted services authorization methods. The SP Security Services error message should indicate the cause of the error.

User Response: Refer to the SP Security Services error message for further details.

2515-032 The owner of subscription *Subscription handle name* has not been authorized to generate SNMP traps.

Explanation: An SNMP trap was not generated in response to a user-defined event, because the subscription owner does not have root access to the node where the SNMP trap was to be generated.

User Response: If the user can login to the node as root, authorization may be obtained. Make the appropriate changes to one of the */.k5login*, */.klogin* or */.rhosts* files, depending on how PSSP trusted services security has been configured. Consult the Problem Management documentation for further details.

2515-033 Could not establish communication with the *sp_configd* subsystem: The *sp_configd* subsystem does not appear to be operational.

Explanation: The subsystem cannot send requests for SNMP traps to the *sp_configd* subsystem, because the *sp_configd* subsystem does not appear to be operational.

User Response: Correct any problems with the *sp_configd* subsystem.

2515-034 Established communication with the *sp_configd* subsystem: Previous problem has been resolved.

Explanation: Earlier attempts to communicate with the *sp_configd* subsystem failed, because either the *sp_configd* subsystem was not operational, or the FIFO file used to communicate with the *sp_configd* subsystem could not be opened. The problem is now resolved, and the subsystem can communicate with the *sp_configd* subsystem.

User Response: None.

2515-035 Could not write to FIFO file *Pathname of FIFO file: AIX system error message.*

Explanation: The subsystem could not write a request for an SNMP trap to the specified FIFO file, because there was an unexpected error from the *write()* system call. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem indicated by the AIX system error message, and restart the subsystem.

2515-036 Could not establish communication with the *sp_configd* subsystem: Could not open FIFO file *Pathname of FIFO file: AIX system error message.*

Explanation: The subsystem cannot send requests for SNMP traps to the *sp_configd* subsystem, because the subsystem could not open the specified FIFO file that is used to communicate with the *sp_configd* subsystem. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem indicated by the AIX system error message.

2515-097 Event Management cannot monitor resource instance *Event Management resource identifier for events defined by subscription Subscription handle name: Event Management error message.*

Explanation: Event Management has accepted the event registration for the specified subscription, but it cannot monitor the specified resource instance for

events. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details.

2515-098 **Event Management rejected the event registration for subscription**
Subscription handle name: Event Management error message.

Explanation: Event Management has rejected the event registration for the specified subscription. The Event Management error message should indicate the cause of the error.

User Response: Remove the subscription, and create a new subscription with a valid event definition.

2515-099 **Could not start the EMAPI session with Event Management: Event Management error message.**

Explanation: A problem occurred while attempting to start the EMAPI session with Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details. Correct the problem and restart the subsystem.

2515-100 **Could not communicate with Event Management: The Event Management subsystem is either down or not accepting client connections.**

Explanation: A problem occurred while attempting to communicate with Event Management. The Event Management subsystem is either down or not accepting client connections.

User Response: Make sure that Event Management is operational. After this error is encountered, the subsystem keeps trying to communicate with Event Management. Once the Event Management problem is corrected, the next attempt to communicate with it succeeds, and no further action is required.

2515-101 **Established communication with Event Management: Previous problem has been resolved.**

Explanation: Earlier attempts to communicate with Event Management failed, because Event Management was either down or not accepting client connections. The problem is now resolved, and the subsystem can communicate with Event Management.

User Response: No action is required.

2515-102 **Could not send a command request to Event Management: Event Management error message.**

Explanation: A problem occurred while attempting to send a command request to Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details.

2515-105 **Could not restart the EMAPI session with Event Management: Event Management error message.**

Explanation: A problem occurred while attempting to restart the EMAPI session with Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details. Correct the problem and restart the subsystem.

2515-107 **Could not receive a command response from Event Management: Event Management error message.**

Explanation: A problem occurred while attempting to receive a command response from Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details.

2515-112 **Could not obtain the node number of the local host.**

Explanation: A problem occurred while attempting to obtain the node number of the local host.

User Response: Run the command `/usr/lpp/ssp/install/bin/node_number` and investigate the results.

2515-120 **Could not start the RMAPI session with Event Management: Event Management error message.**

Explanation: A problem occurred while attempting to start the RMAPI session with Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details. Correct the problem and restart the subsystem.

2515-121 **Could not send the resource monitor registrations to Event Management:**
Event Management error message.

Explanation: An error occurred while attempting to send the resource monitor registrations to Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details. Correct the problem and restart the subsystem.

2515-122 **Resource monitor registration for Resource variable name not accepted by Event Management: Error code = Event Management error code.**

Explanation: Event Management would not accept the resource monitor registration for the specified resource variable.

User Response: Record the above information and contact the IBM Support Center for further assistance.

2515-123 **Could not send latest value of resource variable Resource variable name to Event Management: Event Management error message.**

Explanation: An error occurred while attempting to send the latest value of the specified resource variable to Event Management. The Event Management error message should indicate the cause of the error.

User Response: Refer to the Event Management error message for further details.

2515-125 **Cannot refresh subsystem: Waiting to establish the EMAPI session with Event Management.**

Explanation: A request for a subsystem refresh cannot be completed, because the subsystem is waiting to establish the EMAPI session with Event Management.

User Response: Correct any problems with the Event Management subsystem and try the refresh request again.

2515-126 **Subscription request temporarily ignored: Waiting to establish the EMAPI session with Event Management.**

Explanation: A subscription request was temporarily ignored by the subsystem because it was waiting to establish the EMAPI session with Event Management. If the subscription request was to activate, deactivate or unsubscribe a subscription, it will not take effect until the next time the subsystem is refreshed or restarted.

User Response: Correct any problems with the Event Management subsystem, then refresh or restart the subsystem.

2515-127 **Resource monitor request refused: Waiting to establish the RMAPI session with Event Management.**

Explanation: The subsystem refused a resource monitor request, because it was waiting to establish the RMAPI session with Event Management.

User Response: Correct any problems with the Event Management subsystem.

2515-128 **Subscription request arguments are not valid.**

Explanation: A subscription request was not formatted correctly. This may occur if a root user directly issues one of the internal Problem Management commands, instead of using the **pmandef** command to communicate with the subsystem.

User Response: Do not use the internal Problem Management commands directly. Use the **pmandef** command instead.

2515-200 **The Problem Management resource monitor definitions are incomplete.**

Explanation: Some of the required data is missing from the **pmanrmdConfig** class in the SDR.

User Response: Issue the command **SDRGetObjects pmanrmdConfig** to determine what is missing from the resource monitor definitions, and make the necessary corrections.

2515-201 **Could not retrieve resource monitor definitions from the SDR.**

Explanation: The command could not retrieve the contents of the **pmanrmdConfig** class from the SDR. This error should have been accompanied by an error from the **SDRGetObjects** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRGetObjects** command error message.

2515-202 **Could not obtain the SP administrative locale name from the SDR.**

Explanation: The command could not read the **admin_locale** attribute from the SP class in the SDR. This error should have been accompanied by an error from the **SDRGetObjects** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRGetObjects** command error message.

2515-203 A problem occurred while attempting to establish a DCE login session.

Explanation: The command encountered an error while attempting to establish a DCE login session. This error should have been accompanied by an error from the **dsrvtgt** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **dsrvtgt** command error message.

2515-300 Cannot open configuration file
Configuration filename: AIX system error message.

Explanation: The command could not open the specified Problem Management resource monitor configuration file. The AIX system error message should indicate the cause of the error.

User Response: Correct the problem that is indicated by the AIX system error message and reissue the command.

2515-302 Could not store the resource monitor definition for *Resource variable* into the SDR.

Explanation: The command could not store the resource monitor definition for the specified resource variable into the SDR. This error should have been accompanied by an error from the **SDRCreatObjects** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRCreatObjects** command error message.

2515-303 Error in configuration file at line *Line number*.

Explanation: The command found an error in the Problem Management resource monitor configuration file at the specified line number.

User Response: Correct the configuration file error and reissue the command.

2515-304 This command runs only on the control workstation.

Explanation: This command was not run on the control workstation.

User Response: Run the command on the control workstation.

2515-306 Host *Hostname* does not belong to this system partition.

Explanation: The command failed because a target host with the specified hostname does not belong to the current SP system partition.

User Response: Reissue the command with a valid set of target nodes.

2515-307 No nodes specified in stanza.

Explanation: A stanza in the Problem Management resource monitor configuration file did not correctly specify the set of nodes to be monitored.

User Response: Correct the configuration file error and reissue the command.

2515-308 Required entry missing from stanza.

Explanation: A stanza in the Problem Management resource monitor configuration file did not have all of the required entries.

User Response: Correct the configuration file error and reissue the command.

2515-500 Conflicting arguments.

Explanation: The command was issued with conflicting arguments. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-501 None of the **-h**, **-N**, or **-n** flags is allowed for an unsubscribe or query request.

Explanation: The command was issued with one of the **-h**, **-N**, or **-n** flags combined with either the **-u** or **-q** flag, and this is not allowed.

User Response: Reissue the command with the correct syntax.

2515-502 The **-a**, **-d**, **-q**, and **-u** flags are mutually exclusive.

Explanation: The command was issued with more than one of the **-a**, **-d**, **-q**, and **-u** flags. This is not allowed.

User Response: Reissue the command with the correct syntax.

2515-503 The argument to the -e flag is not a properly formatted event definition.

Explanation: The command was issued with an argument to the **-e** flag which was not a properly formatted event definition of the form *ResourceVariable:ResourceIdentifier:Expression*. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-504 Missing argument.

Explanation: The command was issued without a required argument. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-505 Invalid flag: *Input command flag*.

Explanation: The specified flag is not valid for this command. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-506 Flags which define a subscription may not be combined with any of the -a, -d, -q, or -u flags.

Explanation: The command was issued with one of the **-e, -r, -i, -c, -C, -t, -T, -l, -L, -s, -m, or -U** flags, combined with one of the **-a, -d, -q, or -u** flags. This is not allowed.

User Response: Reissue the command with the correct syntax.

2515-507 The argument to the -h flag is not formatted correctly.

Explanation: The command was issued with an argument to the **-h** flag which was not formatted correctly. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-508 Invalid SNMP trap ID: *Input SNMP trap ID*.

Explanation: The specified SNMP trap ID is not valid. An SNMP trap ID must be a numeric value.

User Response: Reissue the command with a valid SNMP trap ID.

2515-509 Invalid command timeout value: *Input command timeout value*.

Explanation: The specified command timeout value is not valid. A command timeout value must be a numeric value.

User Response: Reissue the command with a valid command timeout value.

2515-510 The keyword local cannot be combined with the -a or -d flags.

Explanation: The command does not allow the keyword **local** to be the argument to the **-h** flag, when either the **-a** or **-d** flag is also used. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-511 The keyword all cannot be combined with the -h, -N, or -n flags.

Explanation: The command does not allow the keyword **all** to be the argument to the **-a** or **-d** flag, when any of the **-h, -N, or -n** flags is also used. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-512 The keyword all is not valid for a subscribe request.

Explanation: The command does not allow the keyword **all** to be the argument to the **-s** flag. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-513 Could not obtain control workstation hostname from the SDR.

Explanation: A problem occurred while attempting to read the control workstation hostname from the SP class in the SDR.

User Response: Run the command **SDRGetObjects -x SP control_workstation** and investigate the results.

2515-514 You are not authorized to use Problem Management.

Explanation: The user is not authorized to use the Problem Management subsystem. Problem Management user authorization is explained in the "Using the Problem Management Subsystem" chapter in *PSSP: Administration Guide*.

User Response: Refer to the "Using the Problem Management Subsystem" chapter in *PSSP*:

Administration Guide for further details.

2515-515 **A subscription named *Subscription* handle name already exists.**

Explanation: The command could not create a new subscription with the specified handle name, because the user already owns a subscription with that subscription handle name.

User Response: Reissue the command with a different subscription handle name.

2515-516 **No valid nodes have been specified.**

Explanation: A set of target nodes was identified to the command by one of the **-h**, **-N**, or **-n** flags, but none of the specified target nodes exist in the current SP system partition.

User Response: Reissue the command with a valid set of target nodes.

2515-517 **Could not store the subscription into the SDR: *Error message from Problem Management sysctl procedure.***

Explanation: The command invoked a Problem Management sysctl procedure to store the user's subscription into the SDR, and the sysctl procedure encountered an error. The subscription was not stored into the SDR. The sysctl procedure's error message should indicate the cause of the error.

User Response: Refer to the Problem Management sysctl procedure's error message for further details.

2515-518 **Could not store subscription modification(s) into the SDR: *Error message from Problem Management sysctl procedure.***

Explanation: The command invoked a Problem Management sysctl procedure to store the user's subscription modifications into the SDR, and the sysctl procedure encountered an error. No changes were stored into the SDR. The sysctl procedure's error message should indicate the cause of the error.

User Response: Refer to the Problem Management sysctl procedure's error message for further details.

2515-519 **Could not remove the subscription(s) from the SDR: *Error message from Problem Management sysctl procedure.***

Explanation: The command invoked a Problem Management sysctl procedure to remove the user's subscriptions from the SDR, and the sysctl procedure encountered an error. No subscriptions were removed from the SDR. The sysctl procedure's error message should indicate the cause of the error.

User Response: Refer to the Problem Management sysctl procedure's error message for further details.

2515-520 **Changes to DCE based subscriptions were stored into the SDR, but changes to Kerberos V4 based subscriptions could not be stored into the SDR: *Error message from Problem Management sysctl procedure.***

Explanation: The command successfully invoked a Problem Management sysctl procedure to store modifications to the user's DCE based subscriptions into the SDR. Then the command invoked a Problem Management sysctl procedure to store modifications to the user's Kerberos V4 based subscriptions into the SDR, and this second sysctl procedure encountered an error. The Kerberos V4 based subscriptions were not changed. The sysctl procedure's error message should indicate the cause of the error.

User Response: Refer to the Problem Management sysctl procedure's error message for further details.

2515-521 **The DCE based subscriptions were removed from the SDR, but the Kerberos V4 based subscriptions could not be removed from the SDR: *Error message from Problem Management sysctl procedure.***

Explanation: The command successfully invoked a Problem Management sysctl procedure to remove the user's DCE based subscriptions from the SDR. Then the command invoked a Problem Management sysctl procedure to remove the user's Kerberos V4 based subscriptions from the SDR, and this second sysctl procedure encountered an error. The Kerberos V4 based subscriptions were not removed. The sysctl procedure's error message should indicate the cause of the error.

User Response: Refer to the Problem Management sysctl procedure's error message for further details.

2515-522 **A subscription named *Subscription* handle name does not exist.**

Explanation: The command could not process a subscription with the specified handle name, because the user does not own a subscription with that handle name.

User Response: Reissue the command with the correct subscription handle name.

2515-523 **Node number *Node number* does not belong to subscription *Subscription* handle name.**

Explanation: The command was issued with one of the **-h**, **-N**, or **-n** flags, in order to activate or deactivate

the specified subscription on a subset of the subscription's original target nodes. The command failed, because one of the subset nodes, identified by its node number, is not one of the subscriptions's original target nodes.

User Response: Reissue the command with a valid set of target nodes.

2515-524 **Host *Hostname* does not belong to this system partition.**

Explanation: The command failed because a target host with the specified hostname does not belong to the current SP system partition.

User Response: Reissue the command with a valid set of target nodes.

2515-525 **Node range *Input node range* has incorrect syntax.**

Explanation: The command was issued with an argument to the **-n** flag which did not have valid node range syntax. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-526 **Node group *Input node group name* does not exist.**

Explanation: The command was issued with the specified node group name as the argument to the **-N** flag, but the node group does not exist.

User Response: Reissue the command with a valid node group.

2515-527 **Resource identifier *Input resource identifier* has incorrect syntax.**

Explanation: The resource identifier contained within the argument to the **-e** flag did not have valid resource identifier syntax. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-528 **Resource identifier *Input resource identifier* does not contain the NodeNum field.**

Explanation: When the command is issued with the keyword **local** as the argument to the **-h** flag, the set of target nodes is taken from the NodeNum field in the resource identifier that is contained within the argument to the **-e** flag. In this case, the command failed because the resource identifier does not contain the NodeNum field. Refer to the command's man page for further details.

User Response: Reissue the command with the correct resource identifier.

2515-529 **Could not determine your current security context.**

Explanation: The command could not determine the user's current security context that Problem Management will use to establish ownership of subscriptions.

User Response: The command obtains the user's current security context by issuing the command **sysctl pmanwhoami**. Enter this command and investigate the results.

2515-530 **Could not retrieve subscription objects from the SDR.**

Explanation: The command could not retrieve the contents of the **PMAN_Subscription** class from the SDR. This error should have been accompanied by an error from the **SDRGetObjects** command. Refer to the **SDRGetObjects** command error message for further details.

User Response: Correct the problem that is indicated by the **SDRGetObjects** command error message.

2515-531 **Could not determine the current system partition name.**

Explanation: A problem prevented the command from obtaining the name of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar -n** to fail and issue an error message. Run this command and refer to its error message for further details.

2515-532 **Could not determine the current system partition IP address.**

Explanation: A problem prevented the command from obtaining the IP address of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar** to fail and issue an error message. Run this command and refer to its error message for further details.

2515-533 **Could not obtain list of network interfaces from the SDR.**

Explanation: The command could not retrieve the contents of the **Adapter** class from the SDR. This error should have been accompanied by an error from the **SDRGetObjects** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRGetObjects** command error message.

2515-534 **Could not obtain list of nodes from the SDR.**

Explanation: The command could not retrieve the contents of the **Node** class from the SDR. This error should have been accompanied by an error from the **SDRGetObjects** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRGetObjects** command error message.

2515-535 **Node number *Node number* has been specified more than once.**

Explanation: One of the target nodes, identified to the command by one of the **-h**, **-N**, or **-n** flags, was specified more than once.

User Response: Reissue the command with a valid set of target nodes.

2515-536 **Could not obtain the IP address for host *Hostname*.**

Explanation: The IP address for the specified host could not be resolved.

User Response: Make sure that name resolution works for the specified host.

2515-537 **An event definition cannot contain non-ASCII characters.**

Explanation: The event definition argument to the **-e** flag cannot contain non-ASCII characters.

User Response: Reissue the command with a valid event definition.

2515-600 **The **-n** flag is required.**

Explanation: The command requires the **-n** flag. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-601 **The **-U** flag cannot be specified without also specifying the **-H** flag.**

Explanation: The **-U** and **-H** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-602 **The **-H** flag cannot be specified without also specifying the **-U** flag.**

Explanation: The **-U** and **-H** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-603 **The **-x**, **-a**, **-d**, and **-t** flags are mutually exclusive.**

Explanation: The command was issued with more than one of the **-x**, **-a**, **-d**, and **-t** flags. This is not allowed.

User Response: Reissue the command with the correct syntax.

2515-604 **The keyword **all** cannot be combined with the **-a**, **-d**, or **-t** flags.**

Explanation: The command does not allow the keyword **all** to be the argument to any of the **-n**, **-k**, **-p**, **-U**, or **-H** flags, when any of the **-a**, **-d**, or **-t** flags is also specified. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-700 **One of the **-d**, **-k**, or **-u** flags is required.**

Explanation: The command requires one of the **-d**, **-k**, or **-u** flags. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-701 **The **-d**, **-k**, and **-u** flags are mutually exclusive.**

Explanation: The command was issued with more than one of the **-d**, **-k**, and **-u** flags. This is not allowed.

User Response: Reissue the command with the correct syntax.

2515-702 **One of the **-D**, **-K**, or **-U** flags is required.**

Explanation: The command requires one of the **-D**, **-K**, or **-U** flags to be specified. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-703 **The -D, -K, and -U flags are mutually exclusive.**

Explanation: The command was issued with more than one of the **-D**, **-K**, and **-U** flags. This is not allowed.

User Response: Reissue the command with the correct syntax.

2515-704 **The -u flag cannot be specified without also specifying the -n flag.**

Explanation: The **-u** and **-n** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-705 **The -n flag cannot be specified without also specifying the -u flag.**

Explanation: The **-u** and **-n** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-706 **The -U flag cannot be specified without also specifying the -N flag.**

Explanation: The **-U** and **-N** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-707 **The -N flag cannot be specified without also specifying the -U flag.**

Explanation: The **-U** and **-N** flags must be used together. Refer to the command's man page for further details.

User Response: Reissue the command with the correct syntax.

2515-708 **A DCE principal cannot be empty or contain spaces.**

Explanation: An invalid DCE principal was specified as the argument to one of the **-d** or **-D** flags.

User Response: Reissue the command with a valid DCE principal.

2515-709 **A Kerberos V4 principal cannot be empty or contain spaces.**

Explanation: An invalid Kerberos V4 principal was specified as the argument to one of the **-k** or **-K** flags.

User Response: Reissue the command with a valid Kerberos V4 principal.

2515-710 **An AIX user name cannot be empty or contain spaces.**

Explanation: An invalid AIX user name was specified as the argument to one of the **-u** or **-U** flags.

User Response: Reissue the command with a valid AIX user name.

2515-711 **An AIX hostname cannot be empty or contain spaces.**

Explanation: An invalid AIX hostname was specified as the argument to one of the **-n** or **-N** flags.

User Response: Reissue the command with a valid AIX hostname.

2515-712 **No subscriptions belong to DCE principal *DCE principal*.**

Explanation: No subscriptions belonging to the specified DCE principal could be found in the SDR.

User Response: Make sure that the DCE principal is spelled correctly.

2515-713 **No subscriptions belong to Kerberos V4 principal *Kerberos V4 principal*.**

Explanation: No subscriptions belonging to the specified Kerberos V4 principal could be found in the SDR.

User Response: Make sure that the Kerberos V4 principal is spelled correctly.

2515-714 **No subscriptions belong to AIX user *AIX user name* and AIX host *AIX hostname*.**

Explanation: No subscriptions belonging to both the specified AIX user and the specified AIX host could be found in the SDR.

User Response: Make sure that the AIX user name and hostname are both spelled correctly.

2515-715 **Could not retrieve subscription objects from the SDR.**

Explanation: A problem occurred while attempting to read the contents of the **PMAN_Subscription** class from the SDR.

User Response: Run the command **SDRGetObjects PMAN_Subscription** and investigate the results.

2515-716 Could not make the requested subscription ownership change to the SDR.

Explanation: The command could not modify the ownership attributes of the objects in the **PMAN_Subscription** class in the SDR. This error may occur if the user does not have write access to the SDR. This error should have been accompanied by an error from the **SDRChangeAttrValues** command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **SDRChangeAttrValues** command error message.

2515-901 Unexpected error from the Name of system call system call: AIX system error message.

Explanation: There was an unexpected error from the specified system call. The AIX system error message should indicate the cause of the error.

User Response: As a result of this error, the **pmmand** daemon (on the node where the error occurred) was not notified about the creation of a new subscription. Refresh the **pmmand** daemon in order to recognize the new subscription. Refer to the "Using the Problem Management Subsystem" chapter in *PSSP: Administration Guide* for further details.

2515-902 Could not connect to pmmand daemon using socket file UNIX domain socket pathname: AIX system error message.

Explanation: The command could not establish a connection with the **pmmand** daemon, using the specified UNIX domain socket. The AIX system error message should indicate the cause of the error.

User Response: As a result of this error, the **pmmand** daemon (on the node where the error occurred) was not notified about the creation of a new subscription. Refresh the **pmmand** daemon in order to recognize the new subscription. Refer to the "Using the Problem Management Subsystem" chapter in *PSSP: Administration Guide* for further details.

2515-903 There was no response from the pmmand daemon.

Explanation: The **pmmand** daemon did not respond to a request to process a newly created subscription.

User Response: Make sure that the **pmmand** daemon is operating properly on the node where the error occurred. Check the **pmmand** daemon log file in the **/var/adm/SPlogs/pman** directory for errors, and refer to the log file error messages for further details.

2515-904 Could not receive data from socket file UNIX domain socket pathname: AIX system error message.

Explanation: The command sent a request to process a newly created subscription to the **pmmand** daemon. When the command tried to receive a response from the **pmmand** daemon over the specified UNIX domain socket, the **read()** system call returned the specified error. Refer to the AIX system error message for further details.

User Response: Refresh the **pmmand** daemon to make sure that it recognizes the new subscription. Then check the **pmmand** daemon log file in the **/var/adm/SPlogs/pman** directory for errors, and refer to any log file error messages for further details. If the subscription was processed successfully, it should be listed in the output of the **Issrc** command issued with the **-l** flag.

2515-905 The connection to the pmmand daemon was lost.

Explanation: The command lost its connection to the **pmmand** daemon, while trying to notify the **pmmand** daemon about the existence of a new subscription.

User Response: Make sure that the **pmmand** daemon is operating properly on the node where the error occurred. Check the **pmmand** daemon log file in the **/var/adm/SPlogs/pman** directory for errors, and refer to the log file error messages for further details. After the problem has been resolved, restart or refresh the **pmmand** daemon to recognize the new subscription.

2515-906 Event Management rejected the event definition for subscription Subscription handle name: Event Management error message. Please remove this subscription and recreate it with a valid event definition.

Explanation: Event Management has rejected the event definition for the specified subscription. The Event Management error message should indicate the cause of the error. Refer to this error message for further details.

User Response: Remove the subscription (by issuing the **pmmandef** command with the **-u** flag), and create a new subscription with a valid event definition.

2515-980 Could not obtain the node number of the local host.

Explanation: A problem occurred while attempting to obtain the node number of the local host.

User Response: Run the command **/usr/lpp/ssp/install/bin/node_number** and investigate the results.

2515-981 **Could not determine system partition name.**

Explanation: A problem prevented the command from obtaining the name of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar -n** to fail and issue an error message. Run this command and refer to its error message for further details.

2515-982 **Could not determine IP address for system partition** *Name of system partition.*

Explanation: A problem prevented the command from obtaining the IP address of the current SP system partition.

User Response: This problem should also cause the command **spget_syspar** to fail and issue an error message. Run this command and refer to its error message for further details.

2515-983 **Could not add the** *Subsystem name* **subsystem.**

Explanation: The command could not add the specified subsystem. This error should have been accompanied by an error from the **mkssys** AIX command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **mkssys** command error message.

2515-984 **The** *Subsystem name* **subsystem must be stopped.**

Explanation: The command could not perform the requested action, because the specified subsystem is running.

User Response: Stop the subsystem, and reissue the command.

2515-985 **Could not add** *Label that identifies inittab entry* **entry to /etc/inittab.**

Explanation: The command could not add the specified entry to the **/etc/inittab** file. This error should have been accompanied by an error from the **mkkitab** AIX command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **mkkitab** command error message.

2515-987 **Could not start the** *Subsystem name* **subsystem.**

Explanation: The command could not start the specified subsystem. This error should have been accompanied by an error from the **startsrc** AIX command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **startsrc** command error message.

2515-988 **Could not stop the** *Subsystem name* **subsystem.**

Explanation: The command could not stop the specified subsystem. This error should have been accompanied by an error from the **stopsrc** AIX command. Refer to this error message for further details.

User Response: Correct the problem that is indicated by the **stopsrc** command error message.

Chapter 30. 2520 - Group Services messages

2520-001 **The HA_GS interface has already been initialized.**

Explanation: This process has already successfully executed `ha_gs_init()`.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-002 **A responsiveness callback function must be specified.**

Explanation: Specify a responsiveness callback function on the `ha_gs_init()` call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-003 **A delayed error callback function must be specified.**

Explanation: Specify a delayed callback function on the `ha_gs_init()` call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-004 **A responsiveness counter of non-zero length must be specified.**

Explanation: A counter length which is not valid was specified on the `ha_gs_init()` call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-005 **The HA_GS interface has not been initialized.**

Explanation: The program attempted to execute a group services interface before it has successfully executed `ha_gs_init()`.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-006 **Unable to allocate memory for group information.**

Explanation: A `malloc` call was not successful while running within the group services library.

User Response: Restart the application. If this continues to happen, increase the amount of memory available to the application.

2520-007 **A merge callback function must be specified.**

Explanation: Specify a merge callback function on the `ha_gs_init()` call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-008 **Batch Control specified is not valid.**

Explanation: A batch control flag which is not valid was specified on an `ha_gs_init()` call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-009 **Number of Phases specified is not valid.**

Explanation: A batch control flag which is not valid was specified on a Group Services interface call.

User Response: Refer to the interface description in the Group Services Programming Guide and Reference manual that the application attempted when it received this error.

2520-010 **Source Reflection Number of Phases specified is not valid.**

Explanation: A number of phases flag which is not valid was specified on an `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-011 **Group Default Vote specified is not valid.**

Explanation: A group default value which is not valid was specified on an `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-012 **Group name *group name* can be no longer than *maximum length* characters.**

Explanation: The group name specified for an `ha_gs_join()` call is too long.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference.

2520-013 **Unknown Notification Message,**
type=notification type, length=notification length.

Explanation: A notification which was not valid was received by a Group Services application.

User Response: Contact the IBM Support Center.

2520-014 **Provider token *provider token* does not exist.**

Explanation: A Group Services interface was called and the given provider token does not represent any current providers.

User Response: Refer to the Group Services Programming Guide and Reference manual.

2520-015 **Vote submitted, but this group is not in a voting protocol.**

Explanation: The `ha_gs_vote()` interface was called for a group that is not currently in a voting protocol.

User Response: Refer to `ha_gs_vote()` in the Group Services Programming Guide and Reference manual.

2520-016 **Invalid socket control flag given.**

Explanation: A socket control flag which is not valid was specified on a Group Services interface call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-017 **Invalid dispatch control flag given.**

Explanation: A dispatch control flag which is not valid was specified on a Group Services interface call.

User Response: Refer to `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-018 **Invalid vote value given.**

Explanation: A vote value which is not valid was given on a call to `ha_gs_vote()`.

User Response: Refer to `ha_gs_vote()` in the Group Services Programming Guide and Reference manual.

2520-019 **Invalid default vote value given.**

Explanation: A default vote value which is not valid was given on a call to `ha_gs_vote()`.

User Response: Refer to `ha_gs_vote()` in the Group Services Programming Guide and Reference manual.

2520-020 **Invalid subscription control flag value given.**

Explanation: A subscription control flag which is not valid was given on a call to `ha_gs_subscribe()`.

User Response: Refer to `ha_gs_subscribe()` in the Group Services Programming Guide and Reference manual.

2520-021 *unsupported interface name is not currently supported.*

Explanation: The specified interface name is not supported.

User Response: Modify the application to not call this interface.

2520-022 **Client joins to group named *group name* are not allowed.**

Explanation: The group name specified for an `ha_gs_join()` call is the name of a reserved group to which joins are not allowed.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-023 **Group named *group name* may not be specified as a source group name.**

Explanation: The group name specified for an `ha_gs_join()` call is the name of a reserved group which may not be used as a source group name.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-024 **Source group name, *source group name*, can be no longer than *maximum length* characters.**

Explanation: The source group name specified for an `ha_gs_join()` call is too long.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-025 **Invalid Deactivation Phase Specified.**

Explanation: A deactive phase which is not valid was specified on a Group Services `ha_gs_expel()` call.

User Response: Refer to the `ha_gs_expel()` description in the Group Services Programming Guide and Reference manual that the application attempted when it received this error.

2520-026 Cannot determine current client working directory.

Explanation: While processing `ha_gs_init()`, the Group Services library could not determine the current client process working directory.

User Response: Refer to the interface description in the Group Services Programming Guide and Reference manual that the application attempted when it received this error.

2520-027 Must specify at least one provider for an expel.

Explanation: You did not specify any providers to expel on an `ha_gs_expel()` call.

User Response: Refer to the `ha_gs_expel()` description in the Group Services Programming Guide and Reference manual that the application attempted when it received this error.

2520-028 Provider *provider instance number, provider node number* appears twice in expel list.

Explanation: A provider was listed twice to be expelled on an `ha_gs_expel()` call.

User Response: Refer to the `ha_gs_expel()` description in the Group Services Programming Guide and Reference manual that the application attempted when it received this error.

2520-040 Client compiled against later release library.

Explanation: The client program was compiled and linked against a later version of the Group Services library, and cannot be run on this node.

User Response: Install the latest Group Services release on this node, or recompile the client program against the level of the Group Services library on this node.

2520-041 Client cannot issue `ha_gs_goodbye()`.

Explanation: Client was compiled against an earlier level of the Group Services library.

User Response: Install the latest Group Services release on this node and recompile the client program against the level of the Group Services library on this node.

2520-042 Group contains back-level providers thus `ha_gs_goodbye()` cannot be called.

Explanation: Other clients in the group were compiled against an earlier level of the Group Services library.

User Response: Install the latest Group Services release on all nodes, and recompile the client program against the level of the Group Services library on all nodes.

2520-043 A subscription callback function must be specified.

Explanation: Specify a subscription callback function on the `ha_gs_subscribe()` call.

User Response: Refer to `ha_gs_subscribe()` in the Group Services Programming Guide and Reference manual.

2520-044 A protocol `n_phase` callback function must be specified.

Explanation: Specify a protocol `n_phase` callback function on the `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-045 A protocol approved callback function must be specified.

Explanation: Specify a protocol approved callback function on the `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-046 A protocol rejected callback function must be specified.

Explanation: Specify a protocol rejected callback function on the `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-047 An announcement callback function must be specified.

Explanation: Specify an announcement callback function on the `ha_gs_join()` call.

User Response: Refer to `ha_gs_join()` in the Group Services Programming Guide and Reference manual.

2520-048 The `cu_get_cluster_info()` returns an error *error number*.

Explanation: Although the program attempted to get the cluster name and ID to connect the group services daemon, the cluster utility API returns an error.

User Response: Refer to `cu_get_cluster_info()` and `ha_gs_init()` in the Group Services Programming Guide and Reference manual.

2520-201 **Cannot remove service entry**
service_name from *services_file*.

Explanation: Either the service name *service_name* was not found in the services-file, or the *service_name* could not be removed from the services file. The **/tmp** directory or the file system containing *service_file* could be full.

User Response: Add the service name before deleting it, or ensure that the file systems are not full.

2520-202 **Cannot determine node number.**

Explanation: On the SP, every node has its node number stored in the ODM at install time. This node number could not be retrieved.

User Response: Install the node again.

2520-203 **Cannot determine syspar name.**

Explanation: The system partition for this node could not be determined. The most likely cause is that the SDR could not be reached.

User Response: Validate that the SDR is running and is operating correctly.

2520-204 **Cannot determine the IP address or code version for system partition**
syspar_name.

Explanation: On the SP, every node should be in one system partition. The node on which you ran the command, is in the system partition *syspar_name*, but vital information, such as the IP address or code version, cannot be determined. The **SDRGetObjects -x -G Syspar syspar_name==syspar-name ip_address code_ve** command was not successful.

User Response: Validate that the SDR is running and is reachable. Properly configure the system partition, and try the command again.

2520-205 **Port number not found for subsystem**
subsystem_name.

Explanation: The SDRGetObjects Syspar_ports subsystem==subsystem name port command was not successful.

User Response: Run this command on the control workstation in the partition to which this node belongs, and try the command again on the node.

2520-206 **Cannot register service** *service_name*,
protocol *protocol*, port *port_number*.

Explanation: The subsystem being installed by the command was not able to install the specified service name *service_name* protocol *protocol* port number *port_number* in the **/etc/services** directory, which is

required for the subsystem to operate.

User Response: If there is a port number specified in the error message, verify that this port number is not being used by another subsystem. If a port number is not specified in the error message, all of the port numbers that this command selected were already in use.

2520-207 ***daemon_file_name* is not executable.**

Explanation: The daemon file name *daemon_file_name* must be an executable file to allow the subsystem being installed by the command to operate. The the daemon file name *daemon_file_name* may not exist.

User Response: As root, run **chmod +x** *daemon_file_name* and try the command again, or run **installp** again to install the subsystem.

2520-208 **The *subsystem_name* subsystem must be stopped.**

Explanation: Stop the subsystem *subsystem_name* to allow the specified command to operate on it.

User Response: As root, run **stopsrc -s** *subsystem_name* and try the command again.

2520-209 **Could not add *subsystem_name* to**
resource_controller.

Explanation: The specified command was not successful defining the subsystem name *subsystem_name* to the resource controller *resource_controller*. If the resource controller is inittab, mkitab subsystem name was not successful. If resource controller is SRC, mkssys -s subsystem name was not successful.

User Response: Fix what caused the resource controller command listed above to not succeed and try the command again.

2520-210 **Cannot create object in**
SDR_object_class_name for
object_attributes.

Explanation: The specified command was not successful creating an object in the SDR class *SDR_object_class_name* with the attributes specified by *object_attributes*.

User Response: The command generates an error message, which appears prior to this message. Correct the problem indicated by the prior message and run this command again.

2520-211 Internal error.

Explanation: The specified command encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2520-212 Cannot verify registration of service name *service name*, protocol *protocol*, port *port number*.

Explanation: The subsystem being installed by *command-name* was unable to verify the installation of the specified service-name protocol port number in **/etc/services**, which is required for the subsystem to operate. If the machine is an NIS client, you may have to update the NIS master server's services map to reflect this change.

User Response: If the machine is an NIS client, copy the entry with the specified service name, protocol, and port number from the local **/etc/services** file into the same file on the NIS master server and do a NIS make on the NIS master server.

2520-213 Cannot get DCE credentials for SDR access.

Explanation: *command-name* was not successful in getting DCE credentials for SDR access.

User Response: DCE subsystem may not work correctly. Check **/usr/lpp/ssp/bin/dsrvtgt**.

2520-214 Startup parameter line is HACMP/ES 4.2.x style. Assuming HAES domain.

Explanation: Startup parameter line is HAES 4.2.x style.

User Response: Group Services daemon will assume its environment as HACMP/ES.

2520-215 cldomain is not found, assuming HAES 4.2, use SP partition name.

Explanation: `cldomain` cmd is not found. Assume HAES 4.2.x style.

User Response: Group Services daemon will assume its environment as HACMP/ES.

2520-216 Domain name *domain name* on parameter line will be used.

Explanation: Domain name on command line will be used.

User Response: Group Services daemon will assume its environment as HACMP/ES.

2520-217 Cannot initialize FFDC environment, return code = *return code*.

Explanation: FFDC initialization error.

User Response: Check if the FFDC environment is working correctly.

2520-218 Cannot get system partition name with `spget_syspar -n`.

Explanation: Unable to obtain the `syspar` name from `spget_syspar -n`.

User Response: Check the syntax of the `spget_syspar` command.

2520-219 Aggregate IP group on `/dev/mi0` under domain *domain_type* is not supported.

Explanation: Aggregate IP group is not supported for the given domain.

User Response: Only the PSSP domain is supported for Aggregate IP group.

2520-220 `SW_GROUPIE_AGGIP_CFG` is not defined by `hagsglcmd`.

Explanation: The environment variable `SW_GROUPIE_AGGIP_CFG` is not defined

User Response: Check the version of script `hagsglsm` and the daemon `hagsglcmd`.

2520-221 *command-name* Cannot retrieve `Aggregate_IP` from SDR.

Explanation: The *command-name* failed to retrieve an object `Aggregate_IP` in the SDR class.

User Response: An error message is displayed prior to this message by the failing SDR command. Correct the problem indicated by the error message and rerun this command.

Chapter 31. 2521 - Event Management messages

2521-000 The trace argument *trace_argument* is not valid.

Explanation: A trace argument that is not valid was specified to the named program.

User Response: Specify a valid trace argument. See the documentation for the named program.

2521-001 The *option_flag* flag requires an argument.

Explanation: The named option flag *option_flag* did not have a required option argument.

User Response: Specify a valid option argument. See the documentation for the named program.

2521-002 Undefined option flags specified.

Explanation: Undefined option flags were specified to the named program.

User Response: See the documentation for the named program for valid option flags.

2521-003 Cannot obtain node number.

Explanation: The named program cannot obtain the number of the node upon which it is processing.

User Response: Validate that the node number has been set and that */usr/lpp/ssp/install/bin/node_number* exists and is executable.

2521-004 System partition IP address argument is missing.

Explanation: When executing on the control workstation, the named program requires that the IP address of a system partition be specified as an argument to the program.

User Response: Refer to the documentation for the named program.

2521-005 Reserved error number.

Explanation: The specified program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-006 System call *system_call* was unsuccessful with error *error_number* - *error_message*.

Explanation: The specified system call *system_call* failed with the specified error number *error_number* and message *error_message* when invoked by the named program.

User Response: Record the above information and contact the IBM Support Center.

2521-007 Internal error (*additional_error_information*).

Explanation: The named program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-008 Internal error (*error_info1*; *error_info2*).

Explanation: The named program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-009 Cannot make directory *directory_name*, *mkdir()* error is *error_number* - *error_message*.

Explanation: The named program attempted to create the specified directory *directory_name* using the *mkdir()* system call. The system call failed with the named error *error_number*.

User Response: If possible, correct the condition that resulted in the error, such as missing directories in the path of the directory to be created, and start the Event Management daemon again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*. If the problem cannot be corrected contact the IBM Support Center.

2521-010 Cannot open or create *file_name*, *open()* error is *error_number* - *error_message*.

Explanation: The named program attempted to open or create the specified file *file_name* using the *open()* system call. The system call failed with the named error *error_number*.

User Response: If possible, correct the condition that resulted in the error and start the Event Management daemon again (if it has ended). Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for information regarding the

specified file. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-011 Cannot open a session with the SDR, error is *error_message*.

Explanation: The named program attempted to establish a session with the System Data Repository. The attempt failed due to the specified error *error_message*.

User Response: If possible, correct the condition that resulted in the error and start the Event Management daemon again. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-012 Cannot get objects from the SDR class *class_name* error is *error_message*.

Explanation: The named program attempted to get objects from the specified SDR class. The attempt failed due the specified error.

User Response: If possible, correct the condition that resulted in the error and start the Event Management daemon again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-013 Cannot get attribute *attribute_name* from object in SDR class *class_name*, error is *error_message*.

Explanation: The named program attempted to get the named attribute *attribute_name* from an object in the specified SDR class *class_name*. The attempt failed due to the specified error *error_message*.

User Response: If possible, correct the condition that resulted in the error and start the Event Management daemon again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*. If the problem cannot be corrected record the above information and contact the IBM Support Center.

2521-014 Unexpected type for attribute *attribute_name* from object in SDR class *class_name* (*expected_attribute_type*).

Explanation: The type of the named attribute *attribute_name* from an object in the specified SDR class *class_name* does not match the specified expected attribute type *expected_attribute_type*.

User Response: If possible, correct the condition that resulted in the error and start the Event Management daemon again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*. If the problem cannot be corrected record the above information and contact the IBM Support Center.

2521-015 Event Manager configuration database version mismatch (*expected_version_string*; *data_base_version_string*).

Explanation: The version of the Event Manager Configuration Database (EMCDB) read by the Event Manager daemon is not the expected version.

User Response: Refer to the Event Management Subsystem information in *PSSP: Administration Guide*.

2521-016 Event Manager configuration database checksum error.

Explanation: The version of the Event Manager Configuration Database (EMCDB) read by the Event Manager daemon produced a checksum error.

User Response: The EMCDB has become corrupted. Remove the */etc/ha/cfg/em.domain_name.cdb* file on the node where this error occurred, where *domain_name* is the name of the domain of the node.

If this error occurs on the control workstation, the error message indicates the domain of the daemon that produced this message. After the file is removed, restart the Event Management daemon. For more information about the EMCDB, see the Event Management subsystem chapter in *PSSP: Administration Guide*.

2521-017 Cannot connect to resource monitor *resource monitor name* (*resource monitor instance number*) error *error number - error message*.

Explanation: The Event Manager daemon could not connect to the specified instance of the specified resource monitor.

User Response: Record the above information. Contact the IBM Support Center if the specified resource monitor is supplied by IBM. Otherwise, contact the vendor that supplied the resource monitor. Also, examine the error log for any error messages from the resource monitor.

2521-018 Resource monitor *resource_monitor_name* terminated due to signal *signal_number*.

Explanation: The specified resource monitor *resource_monitor_name* terminated as a result of receiving the specified signal *signal_number*.

User Response: Record the above information. If the specified resource monitor is supplied by IBM contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor. Also, examine the error log for any error messages from the specified resource monitor.

2521-019 **Resource monitor** *resource monitor name (resource monitor ID) terminated with exit code* *exit code*.

Explanation: The specified resource monitor terminated with the specified exit code.

User Response: If the exit code is 127, the resource monitor could not be executed. Examine the */var/ha/log/em.default.domain_name.RMid* file for further information, where *domain_name* is the name of the Event Management domain and *RMid* is the specified resource monitor ID.

If the exit code is not 127 and the specified resource monitor is supplied by IBM, contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor. Also, examine the error log for any error messages from the specified resource monitor.

2521-020 **Command based resource monitor terminated early.**

Explanation: A command based resource monitor connected to the Event Manager daemon, but terminated without sending data to the daemon.

User Response: Record the above information. Contact the IBM Support Center if the specified resource monitor is supplied by IBM. Otherwise, contact the vendor that supplied the resource monitor.

2521-021 **Damaged registration cache file** (*additional_error_information*).

Explanation: A file used to cache event registration requests has become corrupted.

User Response: Record the above information and contact the IBM Support Center.

2521-022 **Cannot get port number for** *service_name*.

Explanation: A port number for the specified service name *service_name* cannot be obtained from the */etc/services* file.

User Response: Refer to the Event Management Subsystem information in *PSSP: Administration Guide*.

2521-023 **Cannot initialize Group Services** (*error_code*).

Explanation: Event Management could not initialize Group Services, due to the specified error code *error_code* returned from Group Services.

User Response: Record the above information and contact the IBM Support Center.

2521-024 **Received** *count_of_unrecognized_message* **unrecognized messages in the last** *time* **minutes.**

Explanation: The Event Management daemon has received the specified number of unrecognized messages *count_of_unrecognized_message* within the specified time *time* interval. These messages were received on the UDP port used for communication among Event Management daemons. The most likely cause of this error is that this port number is being used by another application.

User Response: Validate that the port number configured for use by the Event Management daemon is only being used by the Event Management daemon. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*.

2521-025 **Cannot copy** *file_name* **from CWS,** **return code is** *error code*.

Explanation: Event Management could not copy the specified EMCDB file from the control workstation to the node. The error code indicates the cause of the failure.

User Response: If the return code is 3, the copy process could not obtain a Kerberos ticket-granting ticket using the **rcmdtgt** command. Examine the */var/ha/log/em.default.domain_name* file, where *domain_name* is the name of the domain of the node, for further error information. If this error occurs on the control workstation, the error message indicates the domain of the daemon which produced this message.

If the return code is 4, the copy process failed in the **rqp** command. Again, examine the */var/ha/log/em.default.domain_name* file for further information.

If the return code is greater than 100, the copy process was terminated by the signal number given by (return code minus 100). Refer to the Event Management Subsystem chapter in *PSSP: Administration Guide* for additional information regarding this copy process.

If the return code is anything other than what has been described here, record the above information and contact the IBM Support Center.

2521-026 **Cannot read** *file_name*, **read() error is** *error_number - error_message*.

Explanation: The named program attempted to read the specified file *file_name* using the **read()** system call. The system call failed with the named error *error_number*. An error number of 0 indicates that the **read()** call ended with a short count. For example, the named file *file_name* did not contain as much data as was expected.

User Response: If possible, correct the condition that resulted in the error and start the Event Management

daemon again (if it has ended). Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for information regarding the specified file. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-027 Socket connection type *socket_type* rejected, too many open descriptors.

Explanation: Event Management rejected a socket connection of the indicated type due to insufficient available file descriptors:

- Type 'C': connection from client
- Type 'R': connection from/to resource monitor
- Type 'H': connection to Host Respond daemon.

User Response: End unnecessary Event Management client applications. Refer to the Event Management Subsystem information in *PSSP: Administration Guide*

2521-028 Reserved error number.

Explanation: The program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-029 Reserved error number.

Explanation: The program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-030 Resource monitor *resource monitor name (resource monitor instance number)* added unsolicited instance of variable *resource variable name*.

Explanation: The specified instance of a resource monitor attempted to add an instance of the specified resource variable that had not been requested by the Event Management session. This indicates a programming error in the resource monitor.

User Response: Event Management clients should refrain from referencing this resource variable until the resource monitor has been corrected. Record the above information. If the specified resource monitor is supplied by IBM contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor.

2521-031 Resource monitor *resource monitor name (resource monitor instance number)* deleted unsolicited instance of variable *resource variable name*.

Explanation: The specified instance of a resource monitor attempted to delete an instance of the specified resource variable that had not been requested by the Event Management session. This indicates a programming error in the resource monitor.

User Response: Event Management clients should refrain from referencing this resource variable until the resource monitor has been corrected. Record the above information. If the specified resource monitor is supplied by IBM contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor.

2521-032 Cannot dispatch group services (*group_services_return_code*).

Explanation: The Event Management daemon could not dispatch the Group Services function: the **ha_gs_dispatch()** function returned a nonzero value.

User Response: The Event Management daemon should have ended and then restarted. Check the Group Services Subsystem for errors.

2521-033 Peer daemon on node *node number* is not responding to Group Services.

Explanation: The Event Management daemon on the specified node has not responded to a Group Services **ping** within 120 seconds.

User Response: The Event Management daemon on the specified node should eventually terminate and then be restarted. If it does not the administrator must terminate the unresponsive daemon (using the **kill** command) and release shared memory resources used by Event Management on the specified node.

For more information on releasing shared memory resources, see the Resource Monitors and PTX Shared Memory chapter in *RSCT: Event Management Programming Guide and Reference*. Until the daemon on the specified node is restarted, no other Event Management daemons can join the Event Management peer group and provide Event Management services.

2521-034 Not responding to Group Services - terminating.

Explanation: The Event Management daemon has been informed that it has not responded to a Group Services **ping** within 120 seconds. The daemon is terminating so that it can be restarted automatically.

User Response: Record the above information and contact the IBM Support Center.

2521-035 **The daemon is executing with user identifier *incorrect user identifier instead of root*.**

Explanation: The Event Management daemon is executing with the specified user identifier instead of with the **root** identifier.

User Response: The error could be caused by a user other than **root** executing the Event Management daemon **haemd** or by an incorrect configuration of the Event Management subsystem in the System Resource Controller (SRC). Validate that the **/usr/sbin/rsct/bin/haemd** file is not readable or executable by 'others'.

To correct this problem, reconfigure the daemon in the SRC by executing the **haemctrl -d** command, the **haemctrl -a** command and the **haemctrl -s** command. In a HACMP domain, use the **emsvcsctrl** command in place of **haemctrl** above. Refer to the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for the **haemctrl** command for more information.

2521-036 **The Event Management group 'haerm' cannot be found.**

Explanation: The Event Management daemon could not find the group name **haerm**. This group must exist for resource monitors other than **root** to connect properly to the Event Management daemon.

User Response: Correct this problem by executing the **haemctrl -c** command, the **haemctrl -a** command and the **haemctrl -s** command. In an HACMP domain use the **emsvcsctrl** command in place of **haemctrl** above.

Note that if the **haemctrl** command is executed on the control workstation, the **-a** and **-s** invocations of **haemctrl** must be performed for each system partition. See the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for the **haemctrl** command for more information.

2521-037 **Internal error (*additional error information*).**

Explanation: The program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-038 **Resource monitor *resource monitor name (resource monitor instance number)* added duplicate instance of variable *resource variable name*.**

Explanation: The specified instance of a resource monitor attempted to register an instance of the specified resource variable that has already been

registered by another instance of the same resource monitor. This indicates a programming error in the resource monitor.

User Response: Event Management clients should refrain from referencing this resource variable until the resource monitor has been corrected. If the specified resource monitor is supplied by IBM, contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor.

2521-039 **Shared memory (*shared memory ID*) has been damaged, dump file is *dump file name*.**

Explanation: The Event Management daemon has detected a corrupted shared memory segment with the specified shared memory ID. A copy of the first page of the segment has been placed in the named dump file in the **/var/ha/run/haem.*domain_name*** directory, where *domain_name* is the name of the Event Management domain.

The dump file name includes the name and instance number of the resource monitor instance that was using the shared memory segment, and also includes a time stamp value.

User Response: The most probable cause of this error is a defect in the specified resource monitor. Record the above information. If the specified resource monitor is supplied by IBM, contact the IBM Support Center. Otherwise, contact the vendor that supplied the resource monitor.

A less probable cause is that some other application has attached to the specified shared memory segment and corrupted it.

2521-040 **Cannot execute *command name* to obtain node number or domain name (*error code*).**

Explanation: The program cannot execute the specified command. The **clnodenum** command obtains the number of the node on which the program is executing. The **cldomain** command obtains the name of the domain that contains the node on which the program is executing.

User Response: Verify that the specified command exists and is executable.

2521-041 ***command name* exited with error code *error code*.**

Explanation: The program executed the specified command, which then returned the specified error code.

User Response: To determine the appropriate action for the returned error code. See the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for the specified command for more information.

2521-042 *command name had no output.*

Explanation: The program executed the specified command but the command did not provide any output. The **clnodenum** command returns the number of the node on which the named program is executing. The **clidomain** command returns the name of the domain that contains the node on which the program is executing.

User Response: Record the above information and contact the IBM Support Center.

2521-043 *command name terminated due to signal number signal number.*

Explanation: The program executed the specified command, which then terminated as a result of the specified signal number.

User Response: Record the above information and contact the IBM Support Center.

2521-044 *The system call name system call was unsuccessful, see error 2521-045 in error file name.*

Explanation: The specified system call was unsuccessful. You can find additional information in the specified error file.

User Response: Record the above information and contact the IBM Support Center. Provide this message and message 2521-045 from the default log file.

2521-045 *The system call name system call was unsuccessful with error error number - error message when loading load module name. Additional error information: additional error information.*

Explanation: The specified system call was unsuccessful when loading the specified load module. Additional error information may follow.

User Response: Record the above information and contact the IBM Support Center.

2521-046 *The security function name security function was unsuccessful, see error 2521-047 in error file name.*

Explanation: The indicated security function was not successful. Additional information can be found in the specified error file for Event Management.

User Response: Examine 2521-047 and correct the error, then restart the Event Management daemon (if it has terminated).

2521-047 *The security function name security function was unsuccessful.*

Explanation: The indicated security function was not successful. Additional error information follows.

- Security Services error code: *security services error code*
- DCE error code: *DCE error code*
- GSSAPI major error code: *GSSAPI major error code*
- GSSAPI minor error code: *GSSAPI minor error code*
- System call error code: *System call error code*
- Failing DCE function: *name of failing DCE function*
- Message: *error message*

User Response: Using the specified error information, refer to the Security documentation and attempt to correct the error. If you cannot correct the error, record the previous information and contact the IBM Support Center.

2521-048 *Internal error: additional error information.*

Explanation: The program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-049 *Received proposal to change group security state to new group security state from provider EM daemon provider ID but local methods do not match. The local methods are local methods.*

Explanation: The named program received a proposal that the group security state should be changed to the new group security state. However, either security is not supported on this node or the trusted services authentication methods configured on this node do not match the proposed group security state. The request originated with the specified Event Management daemon (the provider ID consists of two numbers, a,b, where 'a' is for internal use and 'b' is the number of the node where the Event Management daemon is executing).

User Response: Ensure that this node has the correct level of the Parallel System Support Program (PSSP) that supports DCE security installed and/or that the trusted services authentication methods are configured on this node to match the proposed group security state. Refer to the Event Management Subsystem chapter in the *PSSP: Administration Guide* for information regarding security in Event Management.

2521-050 Request to change security state to new group security state is rejected (current security state is current group security state).

Explanation: The named program proposed a new security state but it was rejected by one or more other members of the Event Management daemon peer group.

User Response: Ensure that all nodes in the Event Management domain have the level of the Parallel System Support Programs (PSSP) that supports DCE security. Refer to the Event Management Subsystem chapter in the *PSSP: Administration Guide* for information regarding security in Event Management.

2521-051 Security state mismatch at join (daemon security state , group security state).

Explanation: The Event Management daemon joined the daemon peer group, but the security state of the daemon does not match the security state of the peer group. The most likely cause of this error is that the trusted services authentication methods configured on this node have changed since the daemon peer group formed.

User Response: Refer to the Event Management Subsystem chapter in the *PSSP: Administration Guide* for information regarding security in Event Management.

2521-052 Event Management DCE security should not be enabled.

Explanation: The Event Management daemon has DCE security enabled, and Compatibility security is not enabled, but other daemons in the peer group have been detected that are down level. DCE security, without Compatibility security, cannot be enabled for Event Management unless all nodes in the Event Management domain contain Event Management security support .

User Response: Either disable the DCE trusted service authentication method on this node, or enable the Compatibility trusted service authentication method on this node, until the down level nodes are upgraded. Refer to the Event Management Subsystem chapter in the *PSSP: Administration Guide* for more information regarding security in Event Management.

2521-053 Security state mismatch after approve (daemon security state, group security state).

Explanation: A proposal to change the security state of the Event Management peer group has been accepted by all EM daemons, including this daemon, but this daemon can no longer conform to the new state. The most likely cause of this error is that the

trusted services authentication methods configured on this node have changed since this daemon agreed to the new group security state.

User Response: Refer to the Event Management Subsystem chapter in the *PSSP Administration Guide* for information regarding security in Event Management.

2521-054 The Event Management daemon did not initiate a refresh, because the daemon was not yet in a peer group.

Explanation: The Event Management daemon cannot initiate a refresh until it has joined the Event Management peer group.

User Response: Wait for the Event Management daemon to join its peer group before running the refresh command against the daemon.

2521-055 The Event Management daemon did not initiate a refresh, because a prior refresh was in progress.

Explanation: The Event Management daemon cannot initiate a refresh until it has finished the prior refresh that was in progress.

User Response: Wait for the Event Management daemon to finish the prior refresh before running the refresh command against the daemon.

2521-056 The resource monitor *resource monitor name* was not found.

Explanation: The Event Management daemon did not recognize the specified resource monitor.

User Response: Verify the name of the resource monitor. Perhaps the wrong resource monitor name was specified.

2521-057 The resource monitor *resource monitor name* was not locked.

Explanation: The specified resource monitor was not locked. It did not need to be unlocked.

User Response: Verify the name of the resource monitor. Perhaps the wrong resource monitor name was specified.

2521-058 The -a flag must be specified with this command.

Explanation: The specified command requires that the -a flag be used.

User Response: Issue the command again using the -a flag.

2521-200 The *incorrect flag* flag is not valid.

Explanation: The specified incorrect flag was passed to the command.

User Response: Enter the command using the appropriate flags.

2521-201 You must specify a load list file name.

Explanation: The name of a load list file was not specified to the command.

User Response: Enter the command with the name of a load list file.

2521-202 You may specify only one of the *-r* or *-d* flags.

Explanation: Both the *-r* and the *-d* flag were specified to the command.

User Response: Enter the command with either the *-r* flag or the *-d* flag, but not \$ both.

2521-203 Unable to open an SDR session. *SDR function returned error SDR error number.*

Explanation: The command was unable to open a session with the SDR. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-204 Unable to lock the SDR class *class name*. *SDR function returned error error number.*

Explanation: The command was unable to lock the specified class. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-205 Cannot sort objects for SDR class *class name*. *SDR function returned error error number.*

Explanation: The command was unable to lock the specified class. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-206 Unable to get *class name* class object or objects from the SDR. *SDR function returned error error number.*

Explanation: The command was unable to get an object from the named SDR class. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-207 Unable to create object in the SDR class *class name*. *SDR function returned error SDR error number.*

Explanation: The command was unable to create an object in the named SDR class. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-208 Cannot unlock the SDR class *class name*. *SDR function returned error SDR error number.*

Explanation: The command was unable to unlock the specified class. The failing SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-209 WARNING: Cannot deletect objects from SDR class *class name*. *SDR function returned error SDR error number.*

Explanation: The command was unable to delete objects from the specified class. The unsuccessful SDR function and return code are displayed. If no additional error messages are displayed, the command completed successfully.

User Response: Before this command can be run again, all objects from the specified SDR class must be removed using the SDR command line interface. If the problem cannot be corrected, contact the IBM Support Center. This command is normally executed by invoking the **haemctrl -a** command. This command is normally invoked by **syspar_ctrl -a** or **syspar_ctrl -A**.

2521-210 Cannot execute the program *program name* (*system call error number*).

Explanation: The command was unable to re-execute a copy of itself, as specified by the program name, during a migration of SDR data. The error code returned by the **exec()** system call is also displayed.

User Response: Contact the IBM Support Center.

2521-211 **Cannot open input file** *file name fopen()* **error is** *error number — error message.*

Explanation: The named program could not open the specified input file.

User Response: Retry the command after correcting the problem indicated by the fopen() error message.

2521-212 **The class name** *class name on line line number* **is not valid.**

Explanation: The command detected an incorrect class name on the specified line number.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information.

2521-213 **An attribute was found on line** *line number* **but no class has yet been specified.**

Explanation: Within a load list file, attribute lines must follow a line containing a class name. The program has detected an attribute on the specified line before any line containing a class name.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information.

2521-214 **Missing '=' after attribute name on line** *line number.*

Explanation: Within a load list file, the attribute name must be followed by an equal sign. The program has detected that an equal sign is missing on the specified line.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information.

2521-215 **Duplicate attribute value on line** *line number* **for attribute name** *attribute name.*

Explanation: A duplicate value has been found on the specified line for the specified attribute.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information.

2521-216 **Missing attribute value on line** *line number* **for attribute name** *attribute name.*

Explanation: An attribute value is missing on the specified line for the specified attribute.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information.

2521-217 **Syntax error** *syntax error number in character position position number on line line number.*

Explanation: A syntax error was detected in the specified position of the specified line. Possible error numbers are:

- 1 - An attribute value consists of only a double quote delimiter
- 2 - An unescaped double quote is found within an attribute value
- 3 - Incorrect escape sequence
- 4 - Unquoted attribute value contains embedded white space
- 5 - A quoted attribute value is missing the final double quote delimiter

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference*.

2521-218 **Attribute name** *attribute name on line line number* **not defined in class** *class name.*

Explanation: An attribute was detected on the specified line but it is not defined in the specified class.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information

2521-219 **Required attribute** *attribute name* **missing from class** *class name* **prior to line** *line number.*

Explanation: In the last stanza prior to the specified line, the specified attribute of the specified class is missing.

User Response: Retry the command after correcting the input file. Refer to the description of the haemloadlist file in the *PSSP Command and Technical Reference* for more information

2521-220 **Internal program error detected** *error number.*

Explanation: The named program detected an internal error.

User Response: Contact the IBM Support Center.

2521-221 **Cannot find attribute** *attribute name in the SDR class class name . SDR function returned error error number.*

Explanation: The command could not find the specified attribute in the specified class. The unsuccessful SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and enter the command again. If the problem persists, contact the IBM Support Center.

2521-222 **Unexpected attribute type for attribute** *attribute name in class class name.*

Explanation: The type of the specified attribute in the specified SDR class is not what is expected by the named program. This indicates a corrupted SDR.

User Response: Correct the condition that resulted in the error and rerun the command. Refer to the RSCT Event Management Programming Guide and Reference for information regarding the definition of the specified SDR class. If the problem cannot be corrected contact the IBM Support Center.

2521-223 **Cannot delete objects from the SDR class** *class name. SDR function returned error SDR error number.*

Explanation: The command was unable to delete objects from the specified class. The unsuccessful SDR function and return code are displayed.

User Response: Correct the condition that resulted in the error and rerun the command. If the problem cannot be corrected contact the IBM Support Center.

2521-224 **Cannot open migration file** *file name fopen() error is error number — error message.*

Explanation: The named program could not open the specified output file.

User Response: Retry the command after correcting the problem indicated by the fopen() error message.

2521-300 **The -option flag flag requires an argument.**

Explanation: The specified option flag did not have a required option argument.

User Response: Specify a valid option argument. See the documentation for the program.

2521-301 **Internal error** (*additional error information, additional error information*).

Explanation: The program encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-302 **The EMAPI function** *function name was unsuccessful (error number) with the error message: error message*

Explanation: The program invoked the specified function, which returned the specified error number and error message.

User Response: If possible, perform the corrective action for the specified error message. If not, retry the command. If the error is repeated, record the above information and contact the IBM Support Center.

2521-303 **Cannot obtain information for domain** *domain name (domain type)*.

Explanation: The program could not obtain information about the specified domain.

User Response: The most likely cause of this error is that the specified domain name does not match any existing domains of the specified type. Provide a valid domain name and retry the command.

2521-304 **Cannot connect to the** *domain name* **Event Management subsystem.**

Explanation: The program could not establish a connection with the Event Management subsystem in the specified domain.

User Response: The most likely cause of this error is that the Event Management subsystem in the specified domain is not running. Start the Event Management subsystem, if necessary, and retry the command.

2521-305 **Lost connection to the** *domain name* **Event Management subsystem.**

Explanation: The named program lost its connection with the Event Management subsystem in the specified domain.

User Response: The most likely cause of this error is that the Event Management subsystem in the specified domain has stopped running. Start the Event Management subsystem, if necessary, and retry the command.

2521-306 Incorrect number of command line arguments (*number of arguments*).

Explanation: The named program requires that the number of command line arguments be a multiple of three.

User Response: Specify either no command line arguments or three arguments for each resource variable to be queried: the class name, resource variable name and the resource ID. Refer to the manual page for the named program for more information.

2521-307 Cannot open input file *file name*.
fopen() error is *error number - error message* .

Explanation: The named program could not open the specified input file.

User Response: Retry the command after correcting the problem indicated by the **fopen()** error message.

2521-308 Error in input file at line *line number*,
position *line position*.

Explanation: The named program detected an error in the input file on the indicated line number at the indicated position.

User Response: Refer to the manual page for the named program for more information.

2521-400 Error obtaining the node number.

Explanation: The program was unable to determine the node number it was running on.

User Response: Validate that the node number has been set and that **/usr/lpp/ssp/install/bin/node_number** exists and is executable.

2521-401 This utility must be executed on the Control Workstation if the -n flag is not used.

Explanation: You must run this command on the control workstation to generate a production EMCDB. To create a EMCDB on a node, use the **-n** flag.

User Response: Run the command again on the control workstation or use the **-n** flag.

2521-402 Unable to open an SDR session. *SDR function returned error SDR error number*.

Explanation: The command was unable to open a session with the SDR. The unsuccessful SDR function and return code are displayed.

User Response: Correct the condition that resulted in

the error and run the command again. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-403 Unable to get SDR object class name class object or objects from the SDR. *SDR function returned error SDR error number*.

Explanation: The command was unable to get an object from the named SDR class. The unsuccessful SDR function and return code are displayed.

User Response: If the named object class is **Syspar**, refer to *PSSP: Administration Guide* for information about this class. If the named object class is **EM_Resource_Monitor**, then refer to *RSCT: Event Management Programming Guide and Reference* for information regarding the use of objects from this SDR class. Also refer to the Event Management Subsystem chapter in *PSSP: Administration Guide* for information regarding the loading of this object class.

2521-404 The syspar_name attribute is not defined as an sdrString.

Explanation: The **syspar_name** attribute of the **Syspar** object for the current partition was not stored as a string value.

User Response: Record the above information and contact the IBM Support Center.

2521-405 The rmPath attribute value *monitor_path*
of the EM_Resource_Monitor object
monitor_name **is not an absolute path.**

Explanation: The **rmPath** attribute of the resource monitor object must be an absolute path to the monitor.

User Response: Change the attribute in the SDR to be an absolute path.

2521-406 Undefined rmConnect_type attribute value *attribute_value* **for the**
EM_Resource_Monitor object
monitor_name.

Explanation: The **rmConnect_type** attribute of the resource monitor object is not valid.

User Response: Change the attribute in the SDR to an allowable value.

2521-407 Unable to get object class name class object or objects for Monitor *monitor name* **from the SDR.**

Explanation: The command was not able to get a required object from the named class for the resource monitor.

User Response: Check that the required data is in the

SDR for the resource monitor. For information regarding this object class, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-408 **Unable to get *object class name class object or objects for Resource Class resource class name* from the SDR.**

Explanation: The command was unable to get a required SDR object for the resource class.

User Response: Check that the required data is in the SDR for the class. For information regarding this object class, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-409 **Unable to get *object class name class object or objects for Variable variable name* from the SDR. SDR function returned error *SDR return code* .**

Explanation: The command was unable to get a required SDR object for the resource variable.

User Response: Check that the required data is in the SDR for the variable. For information regarding this object class, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-410 **Non-unique crc identifier value generated from variable name *variable name*.**

Explanation: A collision occurred when generating a unique internal id for the variable.

User Response: Change the name of the variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-411 **Duplicate variable name *variable name*.**

Explanation: Two variables were found to have the same name. Variable names must be unique.

User Response: Change the name of the variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-412 **Undefined *attribute name attribute value (value)* for the *EM_Resource_Variable object variable name*.**

Explanation: The value found in the SDR for the resource variable attribute was not valid.

User Response: Change the value of the variable attribute to an allowable value. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-413 **Unable to convert initial value for variable *variable name*.**

Explanation: The initial value found in the SDR for the resource variable could not be converted to a float or long.

User Response: Correct the value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-414 **The *rvLocator* and *rvIndex_element* attributes cannot be identical for variable *variable name*.**

Explanation: The *rvLocator* and *rvIndex_element* attributes of the variable cannot be the same value.

User Response: Correct the values in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-415 **Insufficient number of *EM_Resource_ID* objects defined for variable *variable name*.**

Explanation: There were not enough *EM_Resource_ID* objects found for this variable to satisfy its requirements.

User Response: Add or change the resource ID or variable object(s) as needed. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-416 **Error parsing expression at position *position* for variable *variable name*.**

Explanation: An error occurred while parsing the expression for the variable.

User Response: Review the expression's syntax and correct it in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in

2521-417 Incorrect structure of resource variable name *resource variable name.*

Explanation: The specified resource variable name does not conform to the structure *resource_name.resource_attribute*.

User Response: Specify a valid resource variable name. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-418 No match for PTX component name (PTX component name) in resource identifier for variable *variable name.*

Explanation: There was no resource ID object found for the instantiable component of the variable's PTX name. Each portion of the PTX name that begins with a \$ must have a corresponding **EM_Resource_ID** object defined.

User Response: Add or change the resource ID or variable object as needed. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-419 Reserved message ID.

Explanation: A reserved message ID was displayed.

User Response: Record the above information and contact the IBM Support Center.

2521-420 The attribute name (rvLocator or rvIndex_element) attribute value (value) of variable variable name does not match any resource ID element.

Explanation: The attribute value of either **rvLocator** or **rvIndex_element** must match an **EM_Resource_ID** object defined for this variable.

User Response: Correct the attribute value. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-421 The SBS serial number must be in the range 0-upper limit for variable *variable name.*

Explanation: Structured byte string (SBS) serial numbers must be in the range stated. An SBS serial number for the variable was found to be outside of the required range.

User Response: Correct the definition of the SBS. For

more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-422 Duplicate SBS serial number (SBS serial number) found for variable *variable name.*

Explanation: Structured Byte String (SBS) serial numbers must start at 0 and be contiguous and unique for each variable. A duplicate value was found for the variable.

User Response: Correct the definition of the SBS. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-423 Undefined field type (field type in SDR) for SBS field *SBS field name of variable variable name.*

Explanation: The Structured Byte String (SBS) field type for the SBS field of the specified variable was not an allowable value.

User Response: Update the SBS field definition for this field with an allowable value. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-424 The SBS serial numbers for variable *variable name must start with 0.*

Explanation: Structured Byte String (SBS) serial numbers must start at 0 and be contiguous and unique for each variable. A 0 serial number was not found for this variable.

User Response: Update the SBS field definitions for this variable so that the serial numbers start at 0 and are contiguous. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-425 The realloc() call was unsuccessful for *number_of_bytes bytes.*

Explanation: The **realloc()** system call was not successful when trying to reallocate the number of bytes.

User Response: Record the above information and contact the IBM Support Center.

2521-426 **The malloc() call was unsuccessful for number_of_bytes bytes.**

Explanation: The **malloc()** system call was not successful when trying to allocate the number of bytes.

User Response: Record the above information and contact the IBM Support Center.

2521-427 **Incorrect initial long value for the SBS field SBS field name of variable variable name.**

Explanation: The initial long value in the SDR for the Structured Byte String (SBS) field of the variable was not valid and could not be converted to a long value.

User Response: Correct the value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-428 **Error converting the initial float value (value) for the SBS field SBS field name of variable variable name.**

Explanation: The initial float value in the SDR for the Structured Byte String (SBS) field of the variable could not be converted to a float value.

User Response: Correct the value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-429 **Incorrect initial float value for SBS field value of variable SBS field name.**

Explanation: The initial float value in the SDR for the Structured Byte String (SBS) field of the variable was not valid and could not be converted to a float value.

User Response: Correct the value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-430 **Incorrect octal constant in value for SBS field SBS field name of variable variable name.**

Explanation: An octal constant in the initial value in the SDR for the Structured Byte String (SBS) field of the variable was not valid.

User Response: Correct the initial SBS value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-431 **Octal constant too large in value for SBS field SBS field name of variable variable name.**

Explanation: An octal constant in the initial value in the SDR for the Structured Byte String (SBS) field of the variable was greater than the maximum value allowed

User Response: Correct the initial SBS value in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-432 **Cannot find attribute attribute name.**

Explanation: The required attribute was not found in the SDR.

User Response: Check that all objects in the SDR that require the attribute have correct values in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-433 **Attribute attribute_name must be of type type.**

Explanation: The attribute was not stored as the correct type in the SDR.

User Response: Record the above information and contact the IBM Support Center.

2521-434 **Unable to read header information from current EMCDB file EMCDB_file_name.**

Explanation: An error occurred while trying to read the current EMCDB database file.

User Response: The EMCDB has become corrupted. Remove the named file from the node where this error occurred. After the file is removed, run the named command again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for more information about the EMCDB.

2521-435 **Unable to open current EMCDB file EMCDB_file_name: open()_error_string(errno).**

Explanation: An error occurred while trying to open the current EMCDB file.

User Response: If the error indicated by the error information cannot be corrected, remove the named file from the node where this error occurred. After the file is removed, run the named command again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for more information about the EMCDB.

2521-436 **Unable to create EMCDB file**
EMCDB_file_name: open()_error_string (errno).

Explanation: An error occurred while trying to create the new EMCDB file.

User Response: Attempt to correct the error specified by the error information and run the named command again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for more information about the EMCDB. If the error cannot be corrected, record the above information and contact the IBM Support Center.

2521-437 **Unable to map EMCDB file**
EMCDB_file_name: shmat()_error_string (errno).

Explanation: An error occurred while trying to memory map the new EMCDB file.

User Response: Record the above information and contact the IBM Support Center.

2521-438 **No data found for EMCDB section**
EMCDB section name.

Explanation: No data was found in the SDR for the required EMCDB file section.

User Response: Check that all required Event Management objects have been entered into the SDR for the current system partition. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-439 **Unable to rename EMCDB file**
old_EMDCDB_file_name to new_EMDCDB_file_name.

Explanation: The command was unable to rename the EMCDB file.

User Response: Attempt to correct the error specified by the error information and run the named command again. Refer to the Event Management Subsystem information in *PSSP: Administration Guide* for information about the EMCDB. If the problem cannot be corrected, record the above information and contact the IBM Support Center.

2521-440 **Cannot change the *attribute_name* attribute in the Syspar class for partition *partition_name*. SDR_function returned error *SDR_return_code*.**

Explanation: The command was not able to update the attribute value of the Syspar object. The unsuccessful SDR function and return code are displayed.

User Response: If the specified error cannot be corrected, record the above information and contact the IBM Support Center.

2521-441 **Incorrect description message ID string *message ID string*.**

Explanation: The message ID string in the SDR is not valid.

User Response: Correct the message ID string in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-442 **The number of message IDs is incorrect for the number of PTX components for variable *variable name*.**

Explanation: There are too many or too few message IDs to describe the PTX contexts of the variable.

User Response: Correct the message ID string in the SDR for the specified variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-443 **Internal overflow of table *table_name*.**

Explanation: An internal storage table overflowed.

User Response: Record the above information and contact the IBM Support Center.

2521-444 **Unable to create dump table *table_name*.**

Explanation: An error occurred when creating an internal storage table.

User Response: Record the above information and contact the IBM Support Center.

2521-445 **No last context found for statistic *variable_name*.**

Explanation: No last context was found for the named statistic.

User Response: Record the above information and contact the IBM Support Center.

2521-446 **No variable found for statistic *variable_name*.**

Explanation: An internal variable representation was not found for the statistic.

User Response: Record the above information and contact the IBM Support Center.

2521-447 Context path too long: *context path.*

Explanation: The context path length of a variable is greater than the allowed maximum.

User Response: Correct the PTX path for the variable to the allowable limit. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-448 The serial numbers for SBS variable variable name are not contiguous.

Explanation: Structured Byte String (SBS) serial numbers must start at 0 and be contiguous and unique for each variable.

User Response: Update the SBS field definitions for this variable so that the serial numbers are contiguous. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-449 Non-unique crc value generated from path variable_path_name.

Explanation: An internal collision occurred when generating an internal id value for the variable path.

User Response: Record the above information and contact the IBM Support Center.

2521-450 No variable found for wild card path variable_path_name.

Explanation: An internal error occurred when trying to locate a variable associated with the path name.

User Response: Record the above information and contact the IBM Support Center.

2521-451 The value of attribute attribute name must be a non-NULL string.

Explanation: The specified attribute had a NULL string value. It must be non-NULL.

User Response: Check that all objects in the SDR that require the attribute have correct values in the SDR. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-452 Not all resource ID elements defined for the variable variable name are specified in the PTX name.

Explanation: For a variable that is of value type Counter or Quantity, each resource ID element name (except an element name specified in the **rvLocator**

attribute of the variable definition) must be specified as a component of the PTX name defined by the **rvPTX_name** attribute of the variable definition.

User Response: Check the value of the **rvPTX_name** attribute for the specified variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-453 The resource monitor resource monitor name is specified with a connection type of 'client'; its variable variable name must be of value type 'State', not 'value type'.

Explanation: A variable defined for a resource monitor of type 'client' must be of value type 'State'.

User Response: Correct the value type for the specified variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-454 The PTX name specified for the variable variable name 1 is a duplicate of the PTX name specified for the variable variable name 2.

Explanation: The PTX name specified for *variable name 1* is a duplicate of the PTX name specified for *variable name 2*. PTX names must be unique. In this context, "duplicate" means that the two PTX names are exactly the same or one is a subset of the other, as in **a/b** and **a/b/c**. If *variable name 2* is displayed as "Unknown", then the PTX path name of *variable name 1* is a subset of the PTX path names of one or more other variables belonging to the same resource monitor as *variable name 1*.

User Response: Check the value of the **rvPTX_name** attribute for the specified variables. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-455 The value of the rmNum_instances attribute must be greater than 0 and less than attribute value limit for the resource monitor resource monitor name.

Explanation: The value of the **rmNum_instances** attribute must be within the specified range for the specified resource monitor.

User Response: Check the value of the **rmNum_instances** attribute for the specified resource monitor. For more information, see *RSCT: Event Management Programming Guide and Reference* and

the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-456 **The value of the `rmNum_instances` attribute must be 1 for the resource monitor `resource monitor name`.**

Explanation: The value of the `rmNum_instances` attribute must be 1 for the specified resource monitor.

User Response: Check the value of the `rmNum_instances` attribute for the specified resource monitor. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-457 **The variable `resource variable name` cannot be dynamically instantiable since its resource monitor `resource monitor name` is defined to support number of RM instances `instances`.**

Explanation: The specified resource variable has its `rvDynamic_instance` attribute set to a nonzero value and the associated resource monitor has its `rmNum_instances` attribute set to a value greater than one. Resource monitors that supply dynamically instantiable resource variables can have only one resource monitor instance.

User Response: Either set the `rvDynamic_instance` attribute to 0 or change the `rmNum_instances` attribute of the associated resource monitor to 1. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-458 **The resource monitor `resource monitor name` must have the `rmPTX_prefix` attribute defined since its variable `resource variable name` has the `rvPTX_name` attribute defined.**

Explanation: If a resource variable is defined to have a PTX name, as specified by the `rvPTX_name` attribute, then its resource monitor must define a PTX name prefix using the `rmPTX_prefix` attribute.

User Response: Check the value of the `rmPTX_prefix` attribute for the specified resource monitor. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-459 **The resource variable `resource variable name` must have the `rvPTX_name` attribute defined since its resource monitor `resource monitor name` has the `rmPTX_prefix` attribute defined.**

Explanation: If a resource monitor is defined to have a PTX name prefix, as specified by the `rmPTX_prefix` attribute, its resource variables must define a PTX name using the `rvPTX_name` attribute.

User Response: Check the value of the `rvPTX_name` attribute for the specified resource variable. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-460 **The PTX context specified for the variable `variable name` has also been specified for the resource `resource name`.**

Explanation: The PTX context specified for a variable has also been specified for one or more other variables with the specified resource name, which is different than the resource name of the indicated variable. (A PTX context name is a PTX path name without the final component.) A PTX context name cannot be used by more than one resource variable if those resource variables do not have a common resource name.

User Response: Check the value of the `rvPTX_name` attribute for the specified variables. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-461 **The `rcObservation_interval` attribute of the `EM_Resource_Class` object `class name (variable name)` must be greater than 0.**

Explanation: The specified variable name is either of Value type Counter or Quantity. Therefore, the observation interval of the associated Resource Class must be greater than zero.

User Response: Change the value of the `rcObservation_interval` attribute. For more information, see *RSCT: Event Management Programming Guide and Reference* and the Event Management Subsystem chapter in *PSSP: Administration Guide*.

2521-501 **Cannot remove service entry `service_name` from `services_file`.**

Explanation: Either the service name was not found in the services file, or the service name could not be removed from the services file. The `/tmp` directory or the file system containing the services file could be full.

User Response: Add the service name before deleting it, or ensure that the file systems are not full.

2521-502 Cannot determine node number.

Explanation: On the SP, every node has its node number stored in the ODM at installation. This node number could not be retrieved.

User Response: Validate that the node number has been set and that `/usr/lpp/ssp/install/bin/node_number` exists and is executable.

2521-503 Cannot determine syspar name.

Explanation: The system partition for this node could not be determined. The most likely cause is that the SDR could not be reached.

User Response: Validate that the SDR is running and is reachable.

2521-504 Cannot determine the IP address for system partition *syspar_name*.

Explanation: The system partition IP address for this node could not be determined. The most likely cause is that the SDR could not be reached.

User Response: Validate that the SDR is running and is reachable.

2521-505 Port number not found for subsystem *subsystem_name*.

Explanation: The port number required by this subsystem could not be found in the SDR object class `Syspar_ports`. The most likely cause is that this command has not yet been run on the control workstation.

User Response: Run this command on the control workstation in the partition that this node belongs in. For more information, see the Event Management Subsystem information in *PSSP: Administration Guide* and the man page for this command.

2521-506 Cannot register service name *service_name*, protocol *protocol*, port *port_number*.

Explanation: The subsystem being installed by the command was not able to install the specified service name, protocol, port number in `/etc/services`, which is required for the subsystem to operate.

User Response: If there is a port number specified in the error message, verify that this port number is not being used by another subsystem. If a port number is not specified in the error message, all of the port numbers that this command selected were already in use. For more information, see the Event Management

Subsystem information in *PSSP: Administration Guide* and the man page for this command.

2521-507 *daemon_file_name* is not executable.

Explanation: The `daemon_file_name` must be an executable file to allow the subsystem being installed by the command to operate. The problem could also be that the `daemon_file_name` does not exist.

User Response: As root, run `chmod +x daemon_file_name` and try the command again. Or run `installp` again using the `ssp.ha` option of the PSSP package to install the subsystem again.

2521-508 The *subsystem_name* subsystem must be stopped.

Explanation: The subsystem must be stopped to allow the command to operate on it.

User Response: As root, run `stopsrc -s subsystem_name` and try the command again.

2521-509 Could not add *subsystem_name* to *resource_controller*.

Explanation: The command was not successful when defining the subsystem to the resource controller. If the resource controller is `inittab`, `mkitab subsystem_name` failed. If the resource controller is SRC, `mkssys -s subsystem_name` failed.

User Response: Fix whatever caused the resource controller command listed previously to experience the error and try the command again.

2521-510 Cannot create object in *SDR_object_class_name* for *Object_attributes*.

Explanation: The command was not successful when creating an object in the SDR class with the attributes specified.

User Response: An error message is displayed prior to this message by the unsuccessful SDR command. Correct the problem indicated by the prior message and then run this command again.

2521-511 Internal error.

Explanation: The command encountered an internal error.

User Response: Record the above information and contact the IBM Support Center.

2521-512 Cannot load SDR with configuration data.

Explanation: The command was not successful in loading the SDR with Event Management configuration data.

User Response: The file `/var/ha/log/em.loadcfg.SYSPAR` (where SYSPAR is the name of the system partition in which Event Management is being added) contains **loadsdr** command error messages. The last message in this file corresponds to the error that caused this command to fail. Correct the problem indicated by this last error message. For more information, see the Event Management Subsystem information in *PSSP: Administration Guide* and the man page for this command.

2521-513 Cannot create database.

Explanation: The command was not successful in creating the Event Management configuration database from data contained in the SDR. One or more error message from the **haemcfg** command are displayed prior to this message.

User Response: Correct the problem indicated by the messages displayed by the **haemcfg** command. Refer to the Event Management Subsystem information in *PSSP: Administration Guide* and the man page for this command for more information.

2521-514 Cannot verify registration of service name *service name*, protocol *protocol*, port *port number*.

Explanation: The subsystem being installed by *command-name* was unable to verify the installation of the specified *service-name* protocol *port-number* in `/etc/services`, which is required for the subsystem to operate. If the machine is a NIS client, you may have to update the NIS master server's services map to reflect this change.

User Response: If the machine is a NIS client, copy the entry with the specified service-name, protocol, and port-number from the local `/etc/services` file into the `/etc/services` file on the NIS master server, and do a NIS make on the NIS master server.

2521-515 Cannot create the Event Management group *EM-group-name*.

Explanation: The command was not successful in creating the specified Event Management group.

User Response: The `/var/ha/log/em.mkggroup` file contains the error message from the **mkggroup** command. Correct the problem indicated by this message and rerun this command. For more information, see the Event Management Subsystem

chapter of *PSSP: Administration Guide* and the man page for this command.

2521-516 Cannot create the Event Management directory *EM-directory-name*.

Explanation: The command was not successful in creating the specified Event Management directory.

User Response: The `/var/ha/log/em.mkdir` file contains the error message from the **mkdir** command. Correct the problem indicated by this message and rerun this command. For more information, see the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for this command.

2521-550 The *subsystem-name* subsystem must be stopped.

Explanation: The specified subsystem must be stopped to allow the command to operate on it.

User Response: As **root**, run **stopsrc -s *subsystem-name***, and retry the command.

2521-551 *daemon-file-name* is not executable.

Explanation: To allow the subsystem being installed to operate, *daemon-file-name* must be an executable file . The problem could also be that *daemon-file-name* does not exist.

User Response: As **root**, run **chmod +x *daemon-file-name***, and retry the command. If *daemon-file-name* does not exist, rerun **installp** of the RS/6000 Cluster Technology package to reinstall the subsystem.

2521-552 Could not add *subsystem-name* to *resource-controller*.

Explanation: The previous command was not successful in defining the subsystem to the resource controller. If the resource controller is **inittab**, the **mkitab *subsystem-name*** command did not succeed. If the resource controller is SRC, **mkssys -s *subsystem-name*** did not succeed.

User Response: Correct the problem that caused the resource controller command to not succeed, and retry the command.

2521-553 Cannot create the Event Management group *EM-group-name*.

Explanation: The command was not successful in creating the specified Event Management group.

User Response: The `/var/ha/log/em.mkggroup` file contains the error message from the **mkggroup** command. Correct the problem indicated by this message and rerun this command. For more

information, see the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for this command.

2521-554 Cannot create the Event Management directory *EM-directory-name*.

Explanation: The command was not successful creating the specified Event Management directory.

User Response: The */var/ha/log/em.mkdir* file contains the error message from the **mkdir** command. Correct the problem indicated by this message and rerun the command. For more information, see the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for this command

2521-555 Cannot copy the Configuration Database.

Explanation: The command was not successful in copying the Event Management Configuration Database (EMCDB).

User Response: The */var/ha/log/em.cp* file contains a **cp** command error message. Correct the problem indicated by this error message. For more information, see the Event Management Subsystem chapter of *PSSP: Administration Guide* and the man page for this command.

2521-601 An error occurred in *function name* while getting domain information from *command: standard error message*.

Explanation: While the Event Management subsystem was preparing to run, attempted to run, or ran the specified command to obtain information about a domain, a call to the specified function was not successful. *Standard error message* indicates the error returned by the function.

User Response: Record the above information and contact the IBM Support Center.

2521-602 Unexpected end-of-file detected while getting domain information from *command*.

Explanation: The Event Manager API ran the specified command to obtain information about a domain. The Event Manager API did not receive all the expected information from the command.

User Response: Record the above information and contact the IBM Support Center.

2521-603 A data format error was detected while getting domain information from *command*.

Explanation: The Event Manager API ran the specified command to obtain information about a domain. The Event Manager API received information from the command that was not of the expected format.

User Response: Record the above information and contact the IBM Support Center.

2521-604 An unexpected ODM error occurred while determining the node number: *function_name: ODM_error_message*

Explanation: The Event Manager API attempted to determine the node number of the host machine, and the ODM function *function_name* returned an error. Note that *ODM_error_message* indicates the error returned by *function_name*.

User Response: Record the above information and contact the IBM Support Center.

2521-605 The format of the node number found in the ODM is not valid; value was: *value*.

Explanation: The Event Manager API attempted to determine the node number of the host machine. It found an object in the **CuAt** object class with the name attribute set to **sp** and attribute attribute set to **node_number**. However, the format of the value attribute was not valid. The value of the value attribute was *value*.

User Response: Record the above information and contact the IBM Support Center.

2521-606 Too many objects providing the node number were found in the ODM.

Explanation: The Event Manager API attempted to determine the node number of the host machine. It found more than one object in the **CuAt** object class with the name attribute set to **sp** and attribute attribute set to **node_number**. Therefore, the node number cannot be determined.

User Response: Record the above information and contact the IBM Support Center.

2521-607 *function name (domain name) : SDR error message*

Explanation: The Event Manager API attempted to get information from the SDR. A session with the specified domain name could not be opened. The above function name returned the above SDR error message.

User Response: Record the above information and contact the IBM Support Center.

2521-608 An error occurred in *function_name* while processing SDR class *SDR_class*: *SDR_error_message*.

Explanation: The Event Manager API attempted to get information from the SDR class *SDR_class*; the routine *function_name* returned the error message *SDR_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-609 Object not found in SDR class *SDR_class*.

Explanation: The Event Manager API attempted to find an object in the SDR class *SDR_class*, but was not successful.

User Response: Record the above information and contact the IBM Support Center.

2521-610 Host name *host_name* found in SDR class *SDR_class* is too long to handle.

Explanation: The Event Manager API found *host_name* in the SDR class *SDR_class*. This host name is too long to handle.

User Response: Record the above information and contact the IBM Support Center.

2521-611 Host address *host_address* found in SDR class *SDR_class* is too long to handle.

Explanation: The Event Manager API found *host_address* in the SDR class *SDR_class*. This host address is too long to handle.

User Response: Record the above information and contact the IBM Support Center.

2521-612 Too many objects found in SDR class *SDR_class*.

Explanation: The Event Manager API attempted to find a specific object in the SDR class *SDR_class*, but more than one was found.

User Response: Record the above information and contact the IBM Support Center.

2521-613 Port number *port_number* found in SDR class *SDR_class* is too long to handle.

Explanation: The Event Manager API found *port_number* in the SDR class *SDR_class*. This port number is too long to handle.

User Response: Record the above information and contact the IBM Support Center.

2521-614 An attempt to allocate *number_of_bytes* bytes with a call to *function_name* was unsuccessful: *standard_error_message*.

Explanation: The Event Manager API attempted to allocate *number_of_bytes* bytes with the *function_name* function. The allocation was not successful. Note that *standard_error_message* indicates the error returned by *function_name*.

User Response: Record the above information and contact the IBM Support Center.

2521-615 Conversion of domain address *domain address* to network form unsuccessful.

Explanation: The Event Manager API could not convert the above domain address to network form. The address is not valid.

User Response: Record the above information and contact the IBM Support Center.

2521-616 Conversion of domain port *domain port* to network form unsuccessful.

Explanation: The Event Manager API could not convert the above domain port to network form. The address is not valid.

User Response: Record the above information and contact the IBM Support Center.

2521-617 An attempt to create a UNIX domain socket with *function_name* was unsuccessful: *standard_error_message*.

Explanation: The Event Manager API attempted to create a UNIX domain socket with the *function_name* function. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-618 An attempt to create an Internet domain socket with *function_name* was unsuccessful: *standard_error_message*.

Explanation: The Event Manager API attempted to create a Internet domain socket with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-619 An attempt to get file descriptor flags with *function_name* was unsuccessful: *standard_error_message*.

Explanation: The Event Manager API attempted to get file descriptor flags with the *function_name* function, but

did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-620 **An attempt to set file descriptor flags with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to set file descriptor flags with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-621 **An attempt to initialize a lock with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to initialize a lock with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-622 **An attempt to lock a lock with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to lock a lock with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-623 **An attempt to unlock a lock with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to unlock a lock with the *function_name* function, but was unsuccessful. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-624 **An attempt to initialize a mutex with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to initialize a mutex with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-625 **An attempt to lock a mutex with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to lock a mutex with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-626 **An attempt to unlock a mutex with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to unlock a mutex with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-627 **A session file descriptor was apparently closed without calling *ha_em_end_session()*.**

Explanation: A file descriptor was created for a new Event Manager API session, but the file descriptor was already associated with an existing Event Manager API session. The program may have closed the session file descriptor without calling *ha_em_end_session()*.

User Response: Record the above information and contact the IBM Support Center.

2521-628 **An attempt to close the session file descriptor with a call to *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to close a file descriptor with the *function_name* function, but was not successful. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-629 **The UNIX domain socket file name generated from *file_name* is too long.**

Explanation: The name of the UNIX domain socket file used to communicate with the Event Manager daemon is too long to fit in an address structure.

User Response: Record the above information and contact the IBM Support Center.

2521-630 **An attempt to connect to an Event Manager daemon with a UNIX domain socket was unsuccessful:**
function_name: standard_error_message

Explanation: The Event Manager API attempted to connect to an Event Manager daemon through a UNIX domain socket, but did not succeed. The *function_name* function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-631 **An attempt to connect to the Event Manager daemon with an Internet domain socket was unsuccessful:**
function_name: standard_error_message.

Explanation: The Event Manager API attempted to connect to an Event Manager daemon through an Internet domain socket, but did not succeed. The *function_name* function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-632 **An attempt to get current time with *function_name* was unsuccessful:**
standard_error_message.

Explanation: The Event Manager API attempted to obtain the current time with the *function_name* function, but did not succeed. The function returned *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-633 **A session with file descriptor *file_descriptor* was not found.**

Explanation: The Event Manager API could not find a session with file descriptor *file_descriptor*. An Event Manager API routine must have been called specifying a session file descriptor that was not valid.

User Response: Record the above information and contact the IBM Support Center.

2521-635 **Undefined command specified:**
command.

Explanation: An undefined command value was specified on a call to **ha_em_send_command()**. The value was *command*.

User Response: Record the above information and contact the IBM Support Center.

2521-636 **Undefined subcommand specified for event registration request:**
subcommand.

Explanation: An undefined subcommand value was specified on a call to **ha_em_send_command()**. The undefined value was *subcommand*.

User Response: Record the above information and contact the IBM Support Center.

2521-637 **Unexpected number of elements specified for event registration request:** *number_of_elements.*

Explanation: An unexpected number of elements was specified in a call to **ha_em_send_command()**. The unexpected number of elements was *number_of_elements*.

User Response: Record the above information and contact the IBM Support Center.

2521-638 **Undefined subcommand specified for event unregistration request:**
subcommand.

Explanation: An undefined subcommand value was specified on a call to **ha_em_send_command()**. The undefined value was *subcommand*.

User Response: Record the above information and contact the IBM Support Center.

2521-639 **Unexpected number of elements specified for event unregistration request:** *number_of_elements*

Explanation: An unexpected number of elements was specified in a call to **ha_em_send_command()**. The unexpected number of elements was *number_of_elements*.

User Response: Record the above information and contact the IBM Support Center.

2521-640 **Undefined subcommand specified for query request:** *subcommand.*

Explanation: An undefined subcommand value was specified on a call to **ha_em_send_command()**. The undefined value was *subcommand*.

User Response: Record the above information and contact the IBM Support Center.

2521-641 **Unexpected number of elements specified for query request:**
number_of_elements.

Explanation: An unexpected number of elements was specified in a call to **ha_em_send_command()**. The

unexpected number of elements was *number_of_elements*.

User Response: Record the above information and contact the IBM Support Center.

2521-642 The session's connection to the Event Manager daemon has been previously lost.

Explanation: An Event Manager session's connection has been lost, and an improper attempt was made to perform some action within the session. Once a session's connection has been lost, the only proper action within the session is to restart or end the session.

User Response: Record the above information and contact the IBM Support Center.

2521-643 This process does not own the specified session.

Explanation: A process made an improper attempt to perform some action within an Event Manager session that was not started by the process. Once a process inherits an Event Manager session from its parent, the only proper action on that session within the child process is to end the session.

User Response: Record the above information and contact the IBM Support Center.

2521-644 An event registration array element could not be allocated.

Explanation: Internally, the Event Manager API keeps track of event registration requests. The Event Manager API could not find a free array element to use to keep track of a new event registration request.

User Response: Record the above information and contact the IBM Support Center.

2521-645 A query control array element could not be allocated.

Explanation: Internally, the Event Manager API keeps track of query requests. The Event Manager API could not find a free array element to use to keep track of a new query request.

User Response: Record the above information and contact the IBM Support Center.

2521-646 An attempt to send a command message was unsuccessful; *function_name* was unsuccessful; *standard_error_message*.

Explanation: The Event Manager API attempted to send a command message to an Event Manager daemon but did not succeed. The function which did not succeed was *function_name*. The error message

returned by the function was *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-647 An attempt to send a command message was unsuccessful; *function_name* sent no bytes.

Explanation: The Event Manager API attempted to send a command message to an Event Manager daemon but did not succeed. The function which did not succeed was *function_name*. No bytes were sent.

User Response: Record the above information and contact the IBM Support Center.

2521-648 An attempt to receive a command response was unsuccessful; *function_name* was unsuccessful; *standard_error_message*.

Explanation: The Event Manager API attempted to receive a command response from an Event Manager daemon but did not succeed. The function which did not succeed was *function_name*. The error message returned by the function was *standard_error_message*.

User Response: Record the above information and contact the IBM Support Center.

2521-649 An attempt to receive a command response was unsuccessful; *function_name* detected end-of-file; connection with Event Manager lost.

Explanation: The Event Manager API attempted to receive a command response from an Event Manager daemon but did not succeed. The function which did not succeed was *function_name*, which reported that it detected end-of-file. The Event Manager API connection with the Event Manager daemon has been lost.

User Response: Use the `ha_em_restart_session()` function to reconnect the session with the Event Manager daemon.

2521-650 No resource variable name was specified for an event that was to be registered.

Explanation: The Event Manager API was called to register one or more events. One of the events did not specify a resource variable name.

User Response: Record the above information and contact the IBM Support Center.

2521-651 No rearm expression was specified for an event that was to be registered.

Explanation: The Event Manager API was called to register one or more events with rearm expressions. One of the events did not specify a rearm expression.

User Response: Record the above information and contact the IBM Support Center.

2521-652 Could not find *environment_variable* in the environment.

Explanation: The Event Manager was looking for a specific environment variable, *environment_variable*, but did not find it. This message should only occur when using debugging versions of the Event Manager API.

User Response: If you are intentionally using a debugging version of the Event Manager API, set the specified environment variable to a value. Otherwise, record the above information and contact the IBM Support Center.

2521-653 The format of the value found in the *environment_variable* environment variable was not valid; value was: *value*.

Explanation: The Event Manager obtained the value, *value*, of an environment variable, *environment_variable*, and its format is not valid. This message should only occur when using debugging versions of the Event Manager API.

User Response: If you are intentionally using a debugging version of the Event Manager API, set the specified environment variable to a valid value. Otherwise, record the above information and contact the IBM Support Center.

2521-654 The value found in the *environment_variable* environment variable was too long; value was: *value*.

Explanation: The Event Manager obtained the value, *value* of an environment variable, *environment_variable*, and its value is too long. This message should only occur when using debugging versions of the Event Manager API.

User Response: If you are intentionally using a debugging version of the Event Manager API, set the specified environment variable to a valid value. Otherwise, record the above information and contact the IBM Support Center.

2521-656 Unexpected event ID specified in event unregistration request: *event_ID*.

Explanation: The event ID *event_ID* was specified in an event unregistration request, but the event ID does not identify a registered event.

User Response: Determine if the event ID is still valid.

2521-657 Duplicate event ID specified in event unregistration request: *event_ID*.

Explanation: The event ID *event_ID* was specified more than once in an event unregistration request, or it was specified in a previous event unregistration request.

User Response: Determine if the event ID has already been specified for unregistration.

2521-658 Lost track of an event ID specified in an event unregistration request: *event_ID*.

Explanation: The event ID *event_ID* was specified in an event unregistration request, and the EMAPI has lost track of it.

User Response: Record the above information and contact the IBM Support Center.

2521-659 Could not duplicate a file descriptor while getting domain information from *command*.

Explanation: The Event Manager API was preparing to run the specified command to obtain information about a domain. The Event Manager API could not associate the **write** end of a pipe with the standard output file descriptor.

User Response: Record the above information and contact the IBM Support Center.

2521-660 After getting domain information from *command*, a call to *routine()* returned an unexpected value: *value*.

Explanation: The Event Manager API had run the specified command to obtain information about a domain. The Event Manager API called the specified routine to wait for the command to finish. The routine returned an unexpected value.

User Response: Record the above information and contact the IBM Support Center.

2521-661 The command *command* returned unexpected status: *status*.

Explanation: The Event Manager API had run the specified command to obtain information about a domain. The command unexpectedly terminated with the specified status.

User Response: Record the above information and contact the IBM Support Center.

2521-662 The session has become unusable.

Explanation: An Event Manager session has become unusable. The session may have become unusable as a result of a previously reported error. If the thread safe version of the EMAPI is being used, the session may have become unusable because a thread using the session was canceled.

User Response: Record the above information and contact the IBM Support Center.

2521-663 The session cannot be restarted, because the session's connection has not been lost.

Explanation: The `ha_em_restart_session()` routine was called for a session that has not lost its connection to the Event Manager daemon.

User Response: Record the above information and contact the IBM Support Center.

2521-664 An attempt to send a command message was unsuccessful; *function_name* was unsuccessful; Connection with Event Manager lost.

Explanation: The Event Manager API attempted to send a command message to an Event Manager daemon but did not succeed. The function which did not succeed was *function_name*. The send was not successful because the Event Manager API connection with the Event Manager daemon may have been lost.

User Response: The `ha_em_restart_session()` function can be used to reconnect the session with the Event Manager daemon.

2521-665 Undefined domain type specified: *domain type*.

Explanation: An undefined domain type value was specified on a call to `ha_em_start_session()`. The undefined value was *domain type*.

User Response: Specify a defined domain type. See the `HA_EM_DOMAIN_*` definitions in the `ha_emapi.h` file.

2521-666 The command *command* terminated with the exit value *exit value*.

Explanation: The Event Manager API had run the specified command to obtain information about the HACMP domain. The exit value of the command indicates an error occurred.

User Response: Record the above information and contact the IBM Support Center.

2521-667 The command *command* was unsuccessful returning a domain name.

Explanation: The Event Manager API had run the specified command to obtain information about the HACMP domain. It did not return a domain name.

User Response: Record the above information and contact the IBM Support Center.

2521-668 The specified domain, *specified domain*, does not match the HACMP domain, *actual domain*, returned by command *command*.

Explanation: The specified domain does not match the actual HACMP domain.

User Response: Specify the correct HACMP domain on the call to `ha_em_start_session()`, or specify a null string.

2521-669 The session connected to an Event Manager daemon that does not support authentication and authorization.

Explanation: The Event Manager daemon connected to by the session did not return a response to the start session response as expected. This probably means the daemon is down level and does not support authentication and authorization.

User Response: Contact your customer support organization.

2521-670 The session received an unexpected start session response.

Explanation: The Event Manager daemon connected to by the session sent more than one start session response. This is unexpected.

User Response: Contact your customer support organization.

2521-671 The session received an improperly formatted start session response.

Explanation: The Event Manager daemon connected to by the session sent a start session response that was improperly formatted.

User Response: Contact your customer support organization.

2521-672 **Conversion of domain node number domain node number to an integer was unsuccessful.**

Explanation: The Event Manager API could not convert *domain node number*, in character format, to an integer.

User Response: Contact your customer support organization.

2521-673 **Session should have security information, but does not.**

Explanation: The Event Manager API should have security information about a session, but it does not. This indicates a logic error in the EMAPI.

User Response: Contact your customer support organization.

2521-674 **An attempt to load the security library with *function name* was unsuccessful: error message.**

Explanation: The Event Manager API attempted to load the security library code found in */usr/lib/libspsec.a(shr.o)* into the process address space. The *function name* function was not successful in loading the code. The function returned standard *error message*.

User Response: Contact your customer support organization.

2521-675 **A call to the security library function *function name* was unsuccessful: error message.**

Explanation: The Event Manager API attempted to call the security library function *function name*. The function returned the message *error message*.

User Response: Contact your customer support organization.

2521-676 **Session should not have a security context, but it does.**

Explanation: The Event Manager API should not have a security context about a session, but it does. This indicates a logic error in the EMAPI.

User Response: Contact your customer support organization.

2521-677 ***function name* was unsuccessful getting the principal for service *service name* on host *target host*.**

Explanation: The Event Manager API attempted to call the security library function *function name* to get the principal for service *service name* on host *target host*.

The function returned the message *security error message*.

User Response: Contact your customer support organization.

2521-678 ***function name* was unsuccessful getting the principal for service *service name* on host *target host*.**

Explanation: The Event Manager API attempted to call the security library function *function name* to get the principal for service *service name* on host *target host*. The function returned a null principal.

User Response: Contact your customer support organization.

2521-679 ***function name* was unsuccessful getting the client credentials for principal *service principal*. error message.**

Explanation: The Event Manager API attempted to call the security library function *function name* to get the client credentials for service principal *service principal*. The function returned the message *security error message*.

User Response: Contact your customer support organization.

2521-680 ***function name* was unsuccessful getting the client credentials for principal *service principal*.**

Explanation: The Event Manager API attempted to call the security library function *function name* to get the client credentials for service principal *service principal*. The function could not obtain client credentials.

User Response: Contact your customer support organization.

2521-681 **A call to *function name* to authenticate the server was unsuccessful: error message.**

Explanation: The Event Manager API attempted to call the security library function *function name* to authenticate the server. The function returned the message *error message*.

User Response: Contact your customer support organization.

2521-682 **An attempt to get authentication methods with *function name* was unsuccessful: error message.**

Explanation: The Event Manager API attempted to get the trusted services authentication methods configured on the system by calling function *function name*, but did

not succeed. *error message* indicates the error returned by *function name*.

User Response: Contact your customer support organization.

2521-683 DCE is not configured as a security method in the client but it is required by the daemon.

Explanation: The system on which the Event Manager client is running does not have DCE security configured, but the Event Manager daemon with which the client connected requires the use of DCE security.

User Response: Configure DCE security on the client's system.

2521-684 DCE is not configured as a security method in the daemon but it is required by the client.

Explanation: The system on which the Event Manager client is running has DCE security configured, but the system on which the Event Manager daemon is running does not have DCE security configured.

User Response: Configure DCE security on the daemon's system.

2521-685 The client cannot be authenticated.

Explanation: The Event Manager client cannot be authenticated by the Event Manager daemon.

User Response: The user of the Event Manager client library must obtain credentials.

2521-686 The client is not authorized to use Event Management.

Explanation: The Event Manager client is not authorized to use Event Management.

User Response: The user of the Event Manager client library must be a member of the Event Management DCE security group.

2521-687 The Event Manager daemon encountered an error in a security function.

Explanation: The Event Manager daemon could not authenticate or authorize the client because it encountered an error in a security function.

User Response: Configure DCE security on the daemon's system.

2521-688 An attempt to get partition *partition name* authentication methods with *function name* was unsuccessful: *error message*.

Explanation: The Event Manager API attempted to get the trusted services authentication methods configured for *SP partition* by calling function *function name*, but did not succeed. *Security error message* indicates the error returned by *function name*.

User Response: Contact your customer support organization.

2521-689 Address of routine *routine name* could not be found.

Explanation: The Event Manager API attempted to get the address of the security library routine *routine name*. The address could not be obtained, even though */usr/lib/libspsec.a(shr.o)* has been loaded into the process address space.

User Response: Contact your customer support organization.

2521-801 The RMAPI has already been initialized.

Explanation: The *ha_rr_init()* routine has already been called successfully.

User Response: The *ha_rr_init()* should only be called once to initialize the RMAPI.

2521-802 The *system call* system call was unsuccessful while attempting to allocate *number of bytes* bytes: *standard error message*

Explanation: The specified system call did not succeed when trying to allocate space.

User Response: Record the above information and contact the IBM Support Center.

2521-803 The *system call* system call was unsuccessful while attempting to open file *file name* : *errno* -standard error message.

Explanation: An error occurred when trying to open the specified file.

User Response: Record the above information and contact the IBM Support Center.

2521-804 **Unable to obtain a lock in the file *name*. Attempted to lock a monitor instance identifier in the range *lower-upper*.**

Explanation: An error occurred when the RMAPI tried to lock the specified file. The lock file is used to limit the number of monitor copies that may execute at the same time. This limit is set to the number of monitor copies that the monitor is configured to allow. The range of IDs for which locking was attempted is provided.

User Response: Make sure that only the number of copies the resource monitor is configured to allow are executing on the node.

2521-805 **Checksum was unsuccessful on EMCDB file: *name*.**

Explanation: The version of the EMCDB file read by the RMAPI produced a checksum error.

User Response: Record the above information and contact the IBM Support Center.

2521-806 **Resource monitor *rname* not found in EMCDB file: *cname*.**

Explanation: The specified resource monitor was not found in the EMCDB file for this domain.

User Response: Check that the resource monitor has been defined in the SDR for the domain and that the EMCDB has been updated.

2521-807 **Spmi function *function_name* was unsuccessful with error *error_number.msg*.**

Explanation: The specified **Spmi** routine was not successful.

User Response: Record the above information and contact the IBM Support Center.

2521-808 **The RMAPI has not been initialized.**

Explanation: The **ha_rr_init()** routine has not been called to initialize the RMAPI.

User Response: The RMAPI must be initialized by calling the **ha_rr_init()** routine before calling any other RMAPI routines.

2521-809 **There was a problem with a variable vector argument.**

Explanation: A **ha_rr_variable** argument to an RMAPI routine was NULL or the number of variables specified to the routine was 0.

User Response: Check that both the vector and vector size arguments are being passed correctly.

2521-810 **The resource class *class name* was not found in the EMCDB for resource monitor *monitor name*.**

Explanation: The specified class name was not found in the EMCDB for the resource monitor.

User Response: Check that the class has been defined for the resource monitor in the SDR and that the EMCDB has been updated.

2521-812 **There was a problem with a variable value vector argument.**

Explanation: An **ha_rr_val** argument to an RMAPI routine was NULL or the number of variables specified to the routine was 0.

User Response: Check that the vector and vector size arguments are being passed correctly.

2521-813 **Resource monitor server socket does not exist.**

Explanation: A request was made to start a session before the resource monitor server socket was created. This message applies only to server type resource monitors (the **rmConnect_type** attribute of the EM_Resource_Monitor SDR Class object is set to "server").

User Response: Check that the resource monitor is defined properly and that **ha_rr_makserv()** is being called before calling **ha_rr_start_session()**.

2521-814 **Notification protocol argument does not match.**

Explanation: The **ha_rr_notify_proto** argument has been passed differently between functions calls.

User Response: Check that the **ha_rr_notify_proto** arguments to the **ha_rr_makserv()** routine and the **ha_rr_start_session()** routine are the same.

2521-815 **No connection pending to accept.**

Explanation: A request was made to accept a connection on the resource monitor's server socket, but no connection request was found.

User Response: This message is returned only to server type resource monitors and does not represent an error condition. Refer to the **ha_rr_start_session** man page details for action to be taken for the **HA_RR_EAGAIN** error.

2521-816 **Additional Event Manager client session request rejected.**

Explanation: An additional request was made to create a client session with the Event Manger daemon.

User Response: `ha_rr_start_session()` should only be called once to create a session with the Event Manager daemon for resource monitors defined as type client (the `rmConnect_type` of the `EM_Resource_Monitor` SDR Class object is "client").

2521-817 System call *system call (args)* was unsuccessful with error: *error number -error message*.

Explanation: The specified system call was not successful.

User Response: Record the above information and contact the IBM Support Center.

2521-818 No SIGIO signal handler found.

Explanation: No signal handler was defined for SIGIO.

User Response: If the resource monitor's notification protocol is `HA_RR_SIGIO`, a SIGIO handler must be defined before calling the function.

2521-819 A server resource monitor can have a maximum of *maximum_number_of_sessions* active sessions.

Explanation: The RMAPI can serve up to the maximum number of sessions.

User Response: Record the above information and contact the IBM Support Center.

2521-820 No session found matching the session file descriptor: *file_descriptor*.

Explanation: No sessions were found matching the session file descriptor argument passed to the RMAPI routine.

User Response: Check that the descriptor argument passed to the function was the one returned by a previous call to `ha_rr_start_session()`.

2521-821 Connection closed by the resource monitor manager.

Explanation: A session socket was found to be closed by the resource monitor manager.

User Response: Review the actions to be taken for the type of resource monitor. If this is a server monitor that is started by the Event Manager daemon, and this was the last manager connection active, the monitor should exit. If the monitor will continue processing, all registered variables should be deleted for this session by calling `ha_rr_del_var()`. The session should then be ended by calling `ha_rr_end_session()`.

2521-822 Resource monitor *name* is not defined to be a server in the EMCDB file.

Explanation: `ha_rr_makserv()` did not succeed because the specified resource monitor is not defined as a server.

User Response: Check that the resource monitor is defined as type server in the SDR and that the EMCDB has been updated to include this definition.

2521-823 Resource monitor server socket already exists.

Explanation: The `ha_rr_makserv()` routine did not succeed because it has already been successfully called.

User Response: Check for multiple calls to the `ha_rr_makserv()` routine.

2521-824 Unknown notification protocol argument.

Explanation: The value of a notification protocol argument passed to a RMAPI routine was not valid.

User Response: Ensure that only the `HA_RR_NOTIFY_SELECT` or `HA_RR_NOTIFY_SIGIO` values are used as the notification protocol argument to the `ha_rr_makserv` and `ha_rr_start_session` subroutines.

2521-825 PTX context or contexts not found in the EMCDB for variable: *variable_name*.

Explanation: A PTX context was not found in the EMCDB file for the variable.

User Response: Record the above information and contact the IBM Support Center.

2521-827 SDR function *function_name* was unsuccessful with return code *return_code*.

Explanation: The specified SDR function was unsuccessful.

User Response: Record the above information and contact the IBM Support Center.

2521-828 SDR class *object_class* has a missing or unexpected data type for attribute *object_attribute*.

Explanation: The SDR class attribute is missing or the data type for the attribute was not what was expected.

User Response: Record the above information and contact the IBM Support Center.

2521-829 **EMCDB version does not match the version in use by the Event Manager daemon.**

Explanation: The timestamp or sequence number in the EMCDB file does not match the EMCDB used by the Event Manager daemon.

User Response: Call `ha_rr_terminate()` then start the RMAPI session again to access the correct EMCDB.

2521-830 **The system call `system call` was unsuccessful while attempting to send a response message to the manager session with socket descriptor `socket descriptor` : `errno - standard error message`.**

Explanation: The specified system call was unsuccessful sending a response message to the resource monitor manager.

User Response: Record the above information and contact the IBM Support Center.

2521-831 **The RMAPI received an unknown manager identifier from session with socket descriptor `socket descriptor`.**

Explanation: The RMAPI received an unknown resource monitor manager id message on the specified socket.

User Response: Record the above information and contact the IBM Support Center.

2521-832 **The RMAPI was called with effective user identifier of (`effective user id of caller`). Effective identifier of 0 (`root`) is required.**

Explanation: The resource monitor was not running with an effective resource ID of 0 (`root`) when the RMAPI was called and the monitor has a monitor instance id of 0, and is configured to supply Counter/Quantity variables to PTX shared memory.

Root authority is required by the `Spmi` library. Only monitors with an instance id of 0, and which are configured to supply PTX variables are required to have `root` authority due to the `Spmi` restriction.

User Response: Check that the resource monitor executes with the required effective user ID to use the RMAPI for supplying variables to PTX shared memory.

2521-833 **An ODM error occurred while determining the `ODM_function`. `ODM_error_string`: `node number`**

Explanation: While trying to determine the node number of the host machine, the ODM routine returned an error to the RMAPI.

User Response: Record the above information and contact the IBM Support Center.

2521-834 **The format of the node number found in ODM is not valid; value was: `value`.**

Explanation: The RMAPI attempted to determine the node number of the host machine. It found an object in the CuAt object class with the name attribute set to `sp` and attribute attribute set to `node_number`. However, the format of the value attribute was not valid. The value of the value attribute was `value`.

User Response: Record the above information and contact the IBM Support Center.

2521-835 **Too many objects providing node number found in the ODM.**

Explanation: The RMAPI API attempted to determine the node number of the host machine. It found more than one object in the CuAt object class with the name attribute set to `sp` and attribute attribute set to `node_number`. Therefore, the node number cannot be determined.

User Response: Record the above information and contact the IBM Support Center.

2521-836 **Unable to determine system partition name. SDR function `SDRGetSyspar()` was unsuccessful.**

Explanation: While trying to determine the local system partition name, the `SDRGetSyspar()` function experienced an error, returning a NULL value.

User Response: Record the above information and contact the IBM Support Center.

2521-837 **The `load()` system call was unsuccessful attempting to load module `module name` used for determining the domain name. The `load()` error is `errno - err string`. `additional error strings`.**

Explanation: The `load()` system call did not succeed in loading an RMAPI module that is used to determine the domain name.

User Response: Record the above information and contact the IBM Support Center.

2521-838 **The value `value` of environment variable `name_envvar`, does not match the `environment domain name value name_value` determined by the RMAPI.**

Explanation: If the domain name environment variable is set, the RMAPI loads a module specific to the environment that is used to determine the domain

name. The value returned by the load module is compared to the value set in the environment variable as a validation check. This message indicates the values did not match.

User Response: Make sure the environment variables are set correctly. If the resource monitor is started by the Event Management daemon, record the above information and contact the IBM Support Center.

2521-839 **The domain name environment variable, *name_envvar*, was set to *value*, but the domain type environment variable, *type_envvar*, was not set.**

Explanation: The specified domain name environment variable, was set to specify the domain name to be used by the RMAPI. However, the specified domain type variable, was not set. If the name variable is set, the type variable must also be set so that the RMAPI can perform validation checking.

User Response: Ensure that the process starting the resource monitor sets the domain environment variables correctly. If the monitor is started by the Event Management daemon, record the above information and contact the IBM Support Center.

2521-840 **Unknown value *value* found in domain type environment variable *envvar*.**

Explanation: The specified RMAPI was set to an unknown value. Valid values are "SP", and "HACMP".

User Response: Ensure that the process starting the resource monitor sets the domain type environment variable correctly. If the monitor is started by the Event Management daemon, record the above information and contact the IBM Support Center.

2521-841 **The command *command*, used to obtain the domain name, was not found.**

Explanation: The specified command, which is used by the RMAPI to determine the domain name, was not found on the local system.

User Response: Record the above information and contact the IBM Support Center.

2521-842 **Unable to execute or determine the exit status of command *command*, used to obtain the domain name.**

Explanation: The RMAPI was unable to determine the exit status of the specified command, which is used to determine the domain name.

User Response: Record the above information and contact the IBM Support Center.

2521-843 **The command, *command*, used to obtain the domain name, terminated with an exit value of *value*.**

Explanation: The RMAPI executed the specified command to determine the domain name. The command terminated with the indicated exit value.

User Response: Record the above information and contact the IBM Support Center.

2521-844 **The command, *command*, did not return a domain name.**

Explanation: The RMAPI executed the specified command to determine the domain name. The command terminated normally (with an exit code of zero), but did not return a domain name to the RMAPI.

User Response: Record the above information and contact the IBM Support Center.

2521-845 **Cannot add variables to an unidentified resource monitor manager session.**

Explanation: The resource monitor attempted to add variables to a session that has not yet been identified as being managed by **haemd**.

User Response: If the monitor is a server, call **ha_rr_add_var()** only in response to receiving a **HA_RR_CMD_ADDV** or **HA_RR_CMD_ADDALL** command.

2521-846 **Cannot add State variable *resource variable name*, with resource ID *resource ID*, to the specified resource monitor manager session.**

Explanation: The resource monitor attempted to add variables with a value type of State to a Performance Monitor client session. This condition could occur if the resource monitor attempts to add State variables in response to receiving a **HA_RR_CMD_ADDALL** command.

User Response: The resource monitor should only add variables of value type **Counter** or **Quantity** in response to the **HA_RR_CMD_ADDALL** command.

2521-847 **Internal RMAPI error: *internal error message***

Explanation: An error internal to the RMAPI has occurred. The error message contains details of the error.

User Response: Record the above information and contact the IBM Support Center.

2521-848 **The RMAPI subroutines have been locked following a previously returned error: lock condition**

Explanation: Following a severe error detected by the RMAPI, API routines were locked from executing. The purpose of locking is to keep the RMAPI resources in a consistent state from which it can successfully process **ha_rr_terminate()** to free its resources.

User Response: Review the error that was returned by the RMAPI before receiving this error. Call **ha_rr_terminate()** to terminate the RMAPI session before continuing. Once the RMAPI has been terminated, **ha_rr_init()** may again be called.

2521-849 **No data was available to be read from the resource monitor manager session socket *socket file descriptor*.**

Explanation: The RMAPI attempted to read data from the specified socket descriptor. The **read()** system call returned with an *errno* of EAGAIN indicating that there was no data available to be read.

User Response: If the notify protocol of the monitor is **HA_NOTIFY_SIGIO** then this does not represent an error because whenever the SIGIO signal is received, an attempt to read each socket must be made. If the protocol is **HA_NOTIFY_SELECT** the message also does not represent an error, but it is recommended for efficiency that the monitor only call **ha_rr_get_ctrlmsg()** for sockets that are ready to be read.

2521-850 **An error was found in the value of the resource variable *variable name* with resource ID *variable resource ID*. RMAPI *errno* - details.**

Explanation: The RMAPI detected an error in the value of the specified variable. Additional details regarding the nature of the error follow.

User Response: Correct the problem with the value before supplying it to RMAPI routines.

2521-851 **A pointer parameter passed to the RMAPI was NULL.**

Explanation: The RMAPI was expecting a valid pointer as one of its parameters, but was passed a NULL pointer value.

User Response: Make sure that valid parameters are being passed to the RMAPI routine.

2521-852 **The command parameter passed to the RMAPI was not a valid value.**

Explanation: The command parameter passed to the **ha_rr_rm_ctl()** RMAPI routine is not a valid value.

User Response: Ensure that the command parameter

is a value specified in the **ha_rmapi.h** header file and *RSCT: Event Management Programming Guide and Reference* .

2521-853 **The command to set values cannot be called after the RMAPI has been initialized.**

Explanation: The command parameter passed to the **ha_rr_rm_ctl()** RMAPI routine specified that the routine should set one or more RMAPI values. Values may only be set by this routine prior to calling **ha_rr_init()**.

User Response: Call **ha_rr_rm_ctl()** to set values before calling **ha_rr_init()** to initialize the RMAPI.

2521-854 **The resource monitor instance identifier specified, *instance-id* is not a valid value. Resource monitor identifiers must be in the range *legal range* - *legal range*.**

Explanation: The **ha_rr_rm_ctl()** routine was called to set the instance ID of the resource monitor. The value passed to the RMAPI was outside the range of legal values.

User Response: Call **ha_rr_rm_ctl()** with an instance ID in the specified range. For details, see the **ha_rmapi.h** header file and *RSCT: Event Management Programming Guide and Reference* .

2521-855 **The resource monitor requested a nonzero resource monitor instance ID, but is configured to allow only a single instance of the monitor to execute at a time.**

Explanation: The **ha_rr_rm_ctl()** routine was called prior to **ha_rr_init()** to set the resource monitor ID. The ID that was specified was either a nonzero value, or the value of the **HA_RR_RM_INSTID_NOPERF** constant. When **ha_rr_init()** was called, the RMAPI detected that the resource monitor was configured to allow only one instance to execute at a time. Such monitors must execute with an instance ID of 0.

User Response: If the **ha_rr_rm_ctl()** routine is not called to set the resource ID, the default resource ID value will allow the resource monitor to initialize. If multiple copies of the monitor are intended, reconfigure the monitor's SDR data and generate a new EMCDB file.

2521-856 **The resource monitor requested the instance identifier *requested identifier*, but is configured to only allow monitor instances in the range *legal range* - *legal range*.**

Explanation: The **ha_rr_rm_ctl()** routine was called prior to **ha_rr_init()** to set the resource monitor ID.

Resource monitors that are configured to allow multiple copies to execute, must specify instance IDs in the range 0 to (number of instances the resource monitor is configured for minus one). The value specified by the resource monitor was not within this range.

User Response: Specify a value for the resource monitor instance ID that is valid for the configuration of the monitor.

2521-857 **The UNIX domain socket file name, path name , is too long.**

Explanation: The name of the UNIX domain socket file to use to communicate with a resource monitor manager is too long to fit in an address structure.

User Response: Record the above information and contact the IBM Support Center.

2521-858 **The calling process must have an effective user identifier of 0 (root), or have the name of haem rm group group in its group list.**

Explanation: In order to use the RMAPI, resource monitors must either have an effective ID of 0 (root) or have the **haerm** group in their group list

User Response: Check that the resource monitor executes with the required effective user ID or has the **haerm** group in its group list.

2521-859 **A session with the Event Management daemon already exists.**

Explanation: The resource monitor accepted a connection with a resource monitor manager using the **ha_rr_start_session()** routine. The RMAPI determined that the session was with the Event Management daemon (**haemd**), and that there was an existing session already established.

Because only 1 session with **haemd** is permitted, the error probably occurred when the **ha_rr_end_session()** was not called to end the existing **haemd** session, before calling **ha_rr_start_session()**.

User Response: When an RMAPI routine returns the **HA_RR_EDISCONNECT** error, be sure to call the **ha_rr_del_var()** and **ha_rr_end_session()** routines to end the closed manager session.

2521-860 **The system call system was unsuccessful attempting to invoke a function on file: file name. errno - standard message.**

Explanation: The specified system call was not successful in performing a function on the specified file name.

User Response: Record the above information and

contact the IBM Support Center.

2521-861 **The haem shared memory segment segment id was found to be damaged at page page number cell offset cell offset.**

Explanation: The RMAPI detected that the shared memory page had been corrupted. The shared memory may have been overwritten by the resource monitor process or another process.

User Response: Record the above information and contact the IBM Support Center.

2521-862 **The load() system call was unsuccessful attempting to load the Spmi library (libSpmi.a). The load() error is errno - err string. additional error strings (if any).**

Explanation: The **load** system call was not successful loading the **Spmi** library used to supply resource variable values to PTX shared memory for performance monitoring.

User Response: Make sure that the **perfagent.server** file set is correctly installed. Record the above information and contact the IBM Support Center.

2521-863 **The size, file size, of the EMCDB file file name, is not a valid EMCDB file size.**

Explanation: Either the actual size of the EMCDB file, or the file size as reported within the EMCDB file, is not a valid size for a EMCDB file. This may indicate that the file was not copied correctly or has been corrupted.

User Response: Record the above information and contact the IBM Support Center.

2521-864 **The internal reported size, reported file size, of the EMCDB file file name is larger than the actual file size of actual file size.**

Explanation: The EMCDB file size reported within the EMCDB file was found to be larger than the actual file. This may indicate a corrupted or truncated EMCDB file.

User Response: Record the above information and contact the IBM Support Center.

2521-865 **The Event Management daemon detected an error in the resource monitor: error number - details.**

Explanation: The Event Management daemon sent the **HA_RR_CMD_ERROR** command to the RMAPI, indicating it detected an error in the operations of the resource monitor or the RMAPI. The error number is a value defined in **ha_rmap.h** following the form, **HA_RR_CMD_ERR_***. The error number indicates the

suspected source and cause of the error.

User Response: For details regarding the specific error number, see *RS/6000 CT: Event Management Programming Guide and Reference*. If the cause indicates a problem in the implementation of the resource monitor, correct the problem as described in the guide and retry the monitor. If the error indicates the problem is caused by the RMAPI, record the above information and contact the IBM Support Center.

2521-866 The RMAPI was passed a resource variable handle value which was not valid.

Explanation: On a call to the RMAPI routine, the resource monitor passed a variable handle value used to identify a resource variable instance that has been added to one or more sessions. The value passed to the RMAPI was not a valid handle.

The value may have been NULL or did not reference a variable instance. This error can occur if the monitor passes a handle which was no longer valid due to a previous call to **ha_rr_del_var()** or **ha_rr_unreg_var()**.

User Response: Correct the resource monitor so that it passes only valid handles returned by the **ha_rr_add_var()** routine. See the **ha_rr_del_var()** and **ha_rr_unreg_var()** man pages for information about conditions that cause a handle to no longer be usable.

2521-867 An attempt to connect to an Event Manager daemon with a UNIX domain socket was unsuccessful: *function name : errno - standard error message.*

Explanation: The RMAPI attempted to connect to an Event Manager daemon through a UNIX domain socket. The specified function name returned the specified standard error message.

User Response: Record the above information and contact the IBM Support Center.

Chapter 32. 2522 - Resource Monitor messages

2522-000 **Could not start signal pipe for process poll signal.**

Explanation: A Program Resource Monitor routine could not perform the initialization needed to handle a signal used to determine when the state of system processes should be polled.

User Response: Record the above information and contact the IBM Support Center.

2522-001 **Could not start signal pipe for process reap signal.**

Explanation: A Program Resource Monitor routine could not perform the initialization needed to handle a signal used to determine when a monitored process has ended.

User Response: Record the above information and contact the IBM Support Center.

2522-002 **Could not start signal pipe for terminate signal.**

Explanation: A Program Resource Monitor routine could not perform the initialization needed to handle a signal used to end the program.

User Response: Record the above information and contact the IBM Support Center.

2522-003 **Error from kernel extension routine**
KE_routine: error_message.

Explanation: A Program Resource Monitor routine called the Program Resource Monitor Kernel Extension routine *KE_routine*, which returned an error. The error message returned was *error_message*.

User Response: Record the above information and contact the IBM Support Center.

2522-004 **The RMAPI routine** *RMAPI_routine*
returned error value *error_number:*
error_message.

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine*, which returned an error. The error number returned was *error_number*; the error message returned was *error_message*.

User Response: Record the above information and contact the IBM Support Center.

2522-005 *flag argument* *flag_argument* **not two comma separated numbers.**

Explanation: A Program Resource Monitor routine found a problem with the specified argument, *flag_argument*, for the *flag* flag. The argument is expected to be two comma separated numbers.

User Response: Record the above information and contact the IBM Support Center.

2522-006 *flag polling frequency argument*
specified_polling_frequency **not positive.**

Explanation: A Program Resource Monitor routine found a problem with the *flag* flag's argument. The first number of the argument, the polling frequency, is expected to be a positive number; *specified_polling_frequency* was specified instead.

User Response: Record the above information and contact the IBM Support Center.

2522-007 *flag re-polling frequency argument*
specified_re-polling_frequency **not positive.**

Explanation: A Program Resource Monitor routine found a problem with the *flag* flag's argument. The second number of the argument, the re-polling frequency, is expected to be a positive number; *specified_re-polling_frequency* was specified instead.

User Response: Record the above information and contact the IBM Support Center.

2522-008 *flag re-polling frequency argument*
specified_re-polling_frequency **greater than polling frequency argument**
specified_polling_frequency.

Explanation: A Program Resource Monitor routine found a problem with the *flag* flag's argument. The second number of the argument, the re-polling frequency, is expected to be less than or equal to the first number of the argument, the polling frequency, however, it was not. The specified numbers were *specified_polling_frequency* and *specified_re-polling_frequency*.

User Response: Record the above information and contact the IBM Support Center.

2522-009 *flag* **flag requires an argument.**

Explanation: A Program Resource Monitor routine found a problem with the *flag* flag. The flag is expected to have an argument, however, none was specified.

User Response: Record the above information and

contact the IBM Support Center.

2522-010 *flag flag not recognized.*

Explanation: A Program Resource Monitor routine found a problem with the program arguments. The flag **flag** was specified, but is not valid.

User Response: Record the above information and contact the IBM Support Center.

2522-011 *system_routine was unsuccessful changing signal signal disposition: error_message.*

Explanation: A Program Resource Monitor routine called *system_routine* to change the disposition of signal *signal*. However, *system_routine* returned an error described by *error_message*.

User Response: Record the above information and contact the IBM Support Center.

2522-012 *system routine system_routine returned error: error_message*

Explanation: A Program Resource Monitor routine called the system routine *system_routine*. However, the system routine returned an error described by *error_message*.

User Response: Record the above information and contact the IBM Support Center.

2522-013 *Could not add a new session to the list of active sessions.*

Explanation: A Program Resource Monitor routine could not get a new session structure added to the list of active sessions. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center. .

2522-014 *RMAPI_routine was unsuccessful returning a control message.*

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine* to get a control message. The RMAPI routine did not return a control message.

User Response: Record the above information and contact the IBM Support Center.

2522-015 *Lengths returned by RMAPI_routine do not agree.*

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine* to get a control message. The RMAPI routine returns the length of the control message returned, and the control

message itself includes its length. These two lengths do not agree.

User Response: Record the above information and contact the IBM Support Center.

2522-016 *A command (command) solely meant for Counter or Quantity resource variables has been received from the RMAPI.*

Explanation: A Program Resource Monitor routine received a command, *command*, from a Resource Monitor Manager solely meant for Counter or Quantity resource variables. Since the Program Resource Monitor provides only State resource variables, this command was not expected.

User Response: Record the above information and contact the IBM Support Center.

2522-017 *An unrecognized command (command) was received from the RMAPI.*

Explanation: A Program Resource Monitor routine received an unrecognized command, *command*, from a Resource Monitor Manager.

User Response: Record the above information and contact the IBM Support Center.

2522-018 *The number of variables (number_of_variables) in a control message from the RMAPI API was not positive.*

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that did not contain a positive number of variables. The number of variables specified was *number_of_variables*.

User Response: Record the above information and contact the IBM Support Center.

2522-019 *Error encountered converting user name to user identifier for resource variable (resource ID).*

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. The user name in the resource ID could not be converted to a user ID. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-020 Could not start signal pipe for debug signal.

Explanation: A Program Resource Monitor routine could not perform the initialization needed to handle a signal used for debugging.

User Response: Record the above information and contact the IBM Support Center.

2522-021 Could not create new variable structure for *resource variable (resource ID)*.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. A variable structure could not be created to describe the new resource variable. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-022 Could not add new variable structure for *resource variable (resource ID)* to instantiated resource variable list.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. The variable structure describing the resource variable could not be added to the list of instantiated resource variables. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-023 *RMAPI routine* could not register *resource variable (resource ID)*.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. The specified RMAPI routine did not register the instantiated resource variable.

User Response: Record the above information and contact the IBM Support Center.

2522-024 The RMAPI routine *RMAPI_routine* reported a registration error *registration_error_number*.

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine* to register an instantiated resource variable. The RMAPI routine returned the registration error *registration_error_number*.

User Response: Record the above information and contact the IBM Support Center.

2522-025 Received a request to add a resource variable (*instance_identifier*), which is not instantiated.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager, that requested that a resource variable be added (monitored). However, the resource variable is not instantiated. The instance identifier specified was *instance_identifier*.

User Response: Record the above information and contact the IBM Support Center.

2522-026 Could not create new program structure for resource variable (*instance_identifier*).

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that a resource variable be added (monitored). However, a program structure could not be created to describe the program to be monitored on behalf of the resource variable. A previous error message may describe the cause of the problem. The instance identifier of the resource variable that was to be added was *instance_identifier*.

User Response: Record the above information and contact the IBM Support Center.

2522-027 Could not add program (*program_name;user_ID*) to monitored programs list.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that a resource variable be added (monitored). However, the program structure describing the program to be monitored on behalf of the resource variable could not be added to the list of monitored programs. A previous error message may describe the cause of the problem. The program name specified was *program_name*, and the user identifier specified was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-028 Could not add variable (*instance_identifier*) to program (*program_name,user_ID*) variable list.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager, that requested that a resource variable be added (monitored). However, the variable structure describing the resource variable could not be added to a list anchored by the program structure describing the program to be monitored on behalf of the resource variable.

A previous error message may describe the cause of

the problem. The instance identifier of the resource variable was *instance_identifier*. The program name was *program_name*, and the user ID was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-029 *RMAPI routine could not add resource variable (resource ID).*

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that the specified resource variable be added (monitored). The RMAPI routine did not add the monitored resource variable.

User Response: Record the above information and contact the IBM Support Center.

2522-030 **The RMAPI routine *RMAPI_routine* reported an add error *add_error_number*.**

Explanation: A Program Resource Monitor routine called the specified RMAPI routine to add a monitored resource variable. The RMAPI routine returned the specified add error.

User Response: Record the above information and contact the IBM Support Center.

2522-031 **The RMAPI routine *RMAPI_routine* did not return a non-NULL handle for resource variable (*resource ID*).**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that the specified resource variable be added (monitored). The RMAPI routine was called to add the monitored resource variable. However, the RMAPI returned a NULL handle.

User Response: Record the above information and contact the IBM Support Center.

2522-032 **The RMAPI routine *RMAPI_routine* changed a handle for resource variable (*resource ID*).**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that the specified resource variable be added (monitored). The RMAPI routine was called to add the monitored resource variable. However, the RMAPI returned a handle that differed from the resource variable's previous handle.

User Response: Record the above information and contact the IBM Support Center.

2522-033 **Could not create new deferred add structure.**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that a resource variable be added (monitored). However, a deferred add structure could not be created to describe the add request. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-034 **Could not add new deferred add structure to list of deferred add requests.**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that a resource variable be added (monitored). However, the deferred add structure describing the add request could not be added to the list of deferred add requests. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-035 **Could not add instance identifier to deferred add structure.**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager, that requested that a resource variable be added (monitored). However, the instance identifier of the resource variable to be monitored could not be added to a list anchored by a deferred add request structure. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-036 **Received a request to delete resource variable (*instance_identifier*), which is not instantiated.**

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested that a resource variable be deleted (not monitored). However, the resource variable is not instantiated. The instance identifier specified was *instance_identifier*.

User Response: Record the above information and contact the IBM Support Center.

2522-037 **Received a request to delete a resource variable (*instance_identifier*), which is not being monitored.**

Explanation: There are two possibilities:

- A Program Resource Monitor received a control message from a Resource Monitor Manager, that requested that a resource variable be deleted (not monitored). However, the routine determined that the resource variable was not being monitored. The instance identifier specified was *instance_identifier*.
- A Program Resource Monitor was ending a RMAPI session because a disconnect had been detected. While ending the session, the routine was told to delete a resource variable that was not being monitored. The instance identifier specified was *instance_identifier*.

User Response: Record the above information and contact the IBM Support Center.

2522-038 **Unexpected return value from RMAPI_routine: *return_value*.**

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine*, which returned an unexpected return value, *return_value*.

User Response: Record the above information and contact the IBM Support Center.

2522-039 **The RMAPI routine *RMAPI_routine* did not return a NULL handle, as expected.**

Explanation: A Program Resource Monitor routine called the RMAPI routine *RMAPI_routine* to delete a resource variable. The RMAPI routine returned a value indicating that the resource variable should no longer be monitored. However, the RMAPI routine also returned a handle that was not NULL.

User Response: Record the above information and contact the IBM Support Center.

2522-040 **Could not remove variable (*instance_identifier*) from program's variable list.**

Explanation: The variable structure describing a resource variable could not be removed from a list anchored by the program structure describing the program being monitored on behalf of the resource variable. A previous error message may describe the cause of the problem. The instance identifier of the resource variable was *instance_identifier*.

User Response: Record the above information and contact the IBM Support Center.

2522-041 **Could not remove program (*program_name*; *user_ID*) from monitored programs list.**

Explanation: The program structure describing the program that was monitored on behalf of a resource variable could not be removed from the list of monitored programs. A previous error message may describe the cause of the problem. The program name was *program_name*, and the user identifier was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-042 **Could not remove program (*program_name*; *user_ID*) from changed programs list.**

Explanation: The program structure describing a program that is being monitored on behalf of a resource variable could not be removed from the list of changed programs. A previous error message may describe the cause of the problem. The program name was *program_name*, and the user identifier was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-043 **Could not delete unnecessary program structure (*program_name*; *user_ID*).**

Explanation: The program structure describing a program that was being monitored on behalf of a resource variable could not be destroyed. A previous error message may describe the cause of the problem. The program name was *program_name*, and the user identifier was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-044 **Could not remove process (*process_ID*) from program (*program_name*; *user_ID*) process list.**

Explanation: The process structure describing a process being monitored on behalf of a program could not be removed from a list anchored by the program structure describing the program. A previous error message may describe the cause of the problem. The process identifier was *process_ID*. The program name was *program_name*, and the user identifier was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-045 **Could not remove process (*process_ID*) from monitored process list.**

Explanation: The process structure describing a process being monitored on behalf of a program could not be removed from the list of monitored processes. A

previous error message may describe the cause of the problem. The process identifier was *process_ID*

User Response: Record the above information and contact the IBM Support Center.

2522-046 Could not delete unnecessar process structure (*process_ID*).

Explanation: The process structure that had described a process being monitored on behalf of a program could not be destroyed. A previous error message may describe the cause of the problem. The process identifier was *process_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-047 Found instance identifier (*instance_identifier*) with no resource variable.

Explanation: A Program Resource Monitor routine encountered what was believed to be a valid instance identifier, *instance_identifier*, which had no resource variable associated with it.

User Response: Record the above information and contact the IBM Support Center.

2522-048 Could not remove session (*session_file_descriptor*) from active session list.

Explanation: The session structure describing a RMAPI session could not be removed from the list of active sessions. A previous error message may describe the cause of the problem. The session file descriptor was *session_file_descriptor*.

User Response: Record the above information and contact the IBM Support Center.

2522-049 Kernel extension reported the death of a process (*process_ID*) that is not being monitored.

Explanation: A Program Resource Monitor Kernel Extension reported to a Program Resource Monitor routine the end of a process, whose PID was *process_ID*, which the Program Resource Monitor was not monitoring.

User Response: Record the above information and contact the IBM Support Center.

2522-050 Monitored process (*process_ID*) does not have an associated monitored program.

Explanation: A Program Resource Monitor routine encountered a monitored process that did not have an

associated monitored program. The PID of the process was *process_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-051 Could not put program (*program_name;user_ID*) on changed program list.

Explanation: A Program Resource Monitor routine could not place a program structure on the changed program list. The program name was *program_name*, and the user identifier was *user_ID*. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-052 Could not access system process table entry.

Explanation: A Program Resource Monitor routine could not access the system's process table. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-053 Could not create new process structure for *process_ID*.

Explanation: A Program Resource Monitor routine could not create a process structure to describe the process with PID *process_ID*. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-054 Could not add process (*process_ID*) to program (*program_name;user_ID*) process list.

Explanation: A Program Resource Monitor routine could not add the process structure describing the process with PID *process_ID* to a list anchored by the program structure describing the program for which the process is to be monitored. A previous error message may describe the cause of the problem. The program name was *program_name*, and the user ID was *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-055 Process (*process_ID*) was to be reused, but it is in an unexpected state.

Explanation: A Program Resource Monitor routine discovered a process with PID *process_ID* already associated with a program, but with an unexpected state.

User Response: Record the above information and contact the IBM Support Center.

2522-056 Could not add process (*process_ID*) to monitored process list.

Explanation: A Program Resource Monitor routine could not add the process structure describing the process with PID *process_ID* to the list of monitored processes. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-057 Could not remove new deferred add structure from list of deferred add requests.

Explanation: A deferred add structure could not be removed from the list of deferred add requests. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-058 Could not delete unnecessary deferred add structure.

Explanation: A deferred add structure could not be destroyed. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-059 Cannot do deferred add of resource variable (*instance_identifier*); it is not instantiated.

Explanation: A Program Resource Monitor routine encountered what was believed to be a valid instance identifier, *instance_identifier*, that had no resource variable associated with it. The resource variable was supposed to be added (monitored).

User Response: Record the above information and contact the IBM Support Center.

2522-060 Cannot do deferred add of resource variable (*instance_identifier*); no associated program found.

Explanation: A Program Resource Monitor routine encountered a resource variable, with instance identifier *instance_identifier*, for which deferred add processing was needed, however, it had no program associated with it.

User Response: Record the above information and contact the IBM Support Center.

2522-061 Could not initialize process lists for program (*program_name*; *user_ID*).

Explanation: A Program Resource Monitor routine could not initialize some process lists. The program name was *program_name*, and the user identifier was *user_ID*. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-062 For report phase *report_phase*, an unexpected process state (*process_state*) for process (*process_ID*) associated with program (*program_name*; *user_ID*) was found.

Explanation: A Program Resource Monitor routine was running in report phase *report_phase*, and found a process with PID *process_ID* that had an unexpected state: *process_state*. The process was associated with a program with the name *program_name* and the user identifier *user_ID*.

User Response: Record the above information and contact the IBM Support Center.

2522-063 Could not create new structured byte string for program (*program_name*; *user_ID*).

Explanation: A Program Resource Monitor routine could not create a new structured byte string for a program. The program name was *program_name*, and the user identifier was *user_ID*. A previous error message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-064 User name in resource variable (*resource ID*) is unknown.

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. The user name in the resource ID could not be converted to a user ID, because the user name is unknown.

User Response: Record the above information and contact the IBM Support Center.

2522-065 Program Resource Monitor cannot monitor itself: resource variable (*resource ID*).

Explanation: A Program Resource Monitor routine received a control message from a Resource Monitor Manager that requested the instantiation of the specified resource variable. The resource ID describes the Program Resource Monitor, which cannot monitor itself.

User Response: Record the above information and contact the IBM Support Center.

2522-066 **Could not remove variable (*instance_identifier*) from instantiated resource variable list.**

Explanation: A Program Resource Monitor routine could not remove the resource variable with the specified instance identifier from the instantiated resource variable list. A previous message may describe the cause of the problem.

User Response: Record the above information and contact the IBM Support Center.

2522-067 **Could not delete unnecessary variable structure (*instance_identifier*).**

Explanation: A Program Resource Monitor routine could not delete the variable structure representing the resource variable with the specified instance identifier.

User Response: Record the above information and contact the IBM Support Center.

2522-068 **Cannot delete *object_type* object because *object_field_name* field is not free.**

Explanation: A Program Resource Monitor routine could not delete an object of type *object_type* because the memory associated with the object's *object_field_name* field has not been freed.

User Response: Record the above information and contact the IBM Support Center.

2522-069 **Number of elements used is greater than number allocated.**

Explanation: A Program Resource Monitor routine found an array where the number of elements used is greater than the number of elements allocated.

User Response: Record the above information and contact the IBM Support Center.

2522-070 **Null resource variable name received.**

Explanation: A Program Resource Monitor routine received an empty resource variable name.

User Response: Record the above information and contact the IBM Support Center.

2522-071 **Unknown resource variable name received: *resource_variable_name*.**

Explanation: A Program Resource Monitor routine received an unknown resource variable name, *resource_variable_name*.

User Response: Record the above information and contact the IBM Support Center.

2522-072 **Null resource ID received.**

Explanation: A Program Resource Monitor routine received an empty resource ID.

User Response: Record the above information and contact the IBM Support Center.

2522-073 **Resource ID *resource ID* contains one of these improper characters *illegal characters*.**

Explanation: A Program Resource Monitor routine received the specified resource ID, that includes one or more of the specified illegal characters.

User Response: Record the above information and contact the IBM Support Center.

2522-074 **Resource ID *resource ID* does not contain *number name* and value pairs.**

Explanation: A Program Resource Monitor routine received the specified resource ID, which does not include the specified number of name/value pairs.

User Response: Record the above information and contact the IBM Support Center.

2522-075 **Resource ID *resource ID* contains more than *number name* and value pairs.**

Explanation: A Program Resource Monitor routine received the specified resource ID, which includes more than the specified number of name/value pairs.

User Response: Record the above information and contact the IBM Support Center.

2522-076 **Resource ID *resource ID* does not contain the *name name* and value pair.**

Explanation: A Program Resource Monitor routine received the specified resource ID, which does not include a name/value pair for the specified name.

User Response: Record the above information and contact the IBM Support Center.

2522-077 **Resource ID *resource ID* : value for *name* exceeds *size limit* characters.**

Explanation: A Program Resource Monitor routine received the specified resource ID, which includes a name/value pair for the specified name. The value for this name exceeds the indicated size limit .

User Response: Record the above information and contact the IBM Support Center.

2522-078 **Name and value pair *name/value pair* is missing name.**

Explanation: A Program Resource Monitor routine received the specified resource ID name/value pair without a name.

User Response: Record the above information and contact the IBM Support Center.

2522-079 **Name and value pair *name/value pair* is missing value.**

Explanation: A Program Resource Monitor routine received the specified resource ID name/value pair without a value.

User Response: Record the above information and contact the IBM Support Center.

2522-080 **Name and value pair *name/value pair* has extra *character*.**

Explanation: A Program Resource Monitor routine received the specified resource ID name/value pair with an extra character.

User Response: Record the above information and contact the IBM Support Center.

2522-081 **Cannot support new session. Can only support *limit sessions*.**

Explanation: A Program Resource Monitor routine detected a new RMAPI session established with the resource monitor, and the number of sessions established exceeds the specified maximum number of RMAPI sessions supported by the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-082 **Cannot remove unknown session *session_descriptor*.**

Explanation: A Program Resource Monitor routine was requested to remove the specified unknown RMAPI session.

User Response: Record the above information and contact the IBM Support Center.

2522-083 **The process table has not been obtained.**

Explanation: A Program Resource Monitor routine was called to provide a process table entry, but it was called at an improper time.

User Response: Record the above information and contact the IBM Support Center.

2522-084 **Specification as to where to start scanning the process table is not valid.**

Explanation: A Program Resource Monitor routine was called to provide a process table entry, but the specification as to where to start scanning the process table was not valid.

User Response: Record the above information and contact the IBM Support Center.

2522-085 **Instance identifier (*instance_identifier*) is out of range.**

Explanation: A Program Resource Monitor routine received an instance identifier, *instance_identifier*, which is outside the range of currently valid instance identifiers.

User Response: Record the above information and contact the IBM Support Center.

2522-086 **Instance identifier (*instance_identifier*) is not in use.**

Explanation: A Program Resource Monitor routine received an instance identifier, *instance_identifier*, which is not currently in use.

User Response: Record the above information and contact the IBM Support Center.

2522-087 **Instance identifiers are mismatched (*instance_ID_1/instance_ID_2*).**

Explanation: A Program Resource Monitor routine found a resource variable structure that should have represented an instantiated resource variable whose instance identifier was *instance_ID_1*. However, the resource variable structure indicated that the resource variable's instance identifier was *instance_ID_2*.

User Response: Record the above information and contact the IBM Support Center.

2522-088 **No instance identifiers are in use.**

Explanation: A Program Resource Monitor routine unexpectedly found that no instance identifiers are currently in use.

User Response: Record the above information and contact the IBM Support Center.

2522-089 **The object is already linked to some list.**

Explanation: A Program Resource Monitor routine was requested to link an object into a list using a certain field of the object. However, the object appears to be already linked into a list with the specified field.

User Response: Record the above information and

contact the IBM Support Center.

2522-090 Duplicate object found on the list.

Explanation: A Program Resource Monitor routine was requested to link an object into a list. However, an object was found to already be on the list with the same key as the object to be placed into the list.

User Response: Record the above information and contact the IBM Support Center.

2522-091 The object is not on the list.

Explanation: A Program Resource Monitor routine was requested to remove an object from a list. However, the field specified through which the object should be linked into the list indicates that the object is not linked into the list.

User Response: Record the above information and contact the IBM Support Center.

2522-092 Could not trim structured byte string to *number_of_bytes* bytes.

Explanation: A Program Resource Monitor routine could not trim the length of a structured byte string to *number_of_bytes* bytes.

User Response: Record the above information and contact the IBM Support Center.

2522-300 No monitor modules available.

Explanation: The **harml**d daemon is about to exit because it does not have any monitor modules loaded. If the options/lpps which **harml**d can monitor are not installed, this is not an error.

User Response: Review prior messages. If any of the options/lpps that **harml**d monitors are installed, record the above information and contact the IBM Support Center.

**2522-301 RM API *RMAPI_routine* failed:
Fn=*RMAPI_filename*,SID=*RMAPI_file_version*,
RMAPI_line_number,Err=*RMAPI_err_number*
-*RMAPI_err_string*.,Msg=*RMAPI_err_msg*.**

Explanation: The **harml**d monitor received a severe error from the RMAPI routine.

User Response: Review the actions for the RMAPI error.

**2522-302 RMAPI *RMAPI_routine* variable
error(*variable name*): Var=*variable*
resource ID ResID=*RMAPI_err_number***

Explanation: An error was detected while trying to add/delete or register the specified variable with the

RMAPI. This error will not cause the **harml**d daemon to terminate.

User Response: If system degradation or unexpected results occur, save message data and contact the IBM Support Center.

2522-303 System call *system call (useful parameters (if any))* was unsuccessful with *errno* *errno*.

Explanation: The specified system call *system_call* was not successful, which may result in the daemon terminating.

User Response: Contact the IBM Support Center.

**2522-304 Bad return code from module during
action_(INIT/UPDAT/CLEANUP):
Module=*module_name*
Class=*variable_class*
Error=*error_number*.**

Explanation: The **harml**d received a bad return code from a load module when called to initialize, update values, or end.

User Response: Record the above information and contact the IBM Support Center.

**2522-305 Maximum number of manager sessions
exceeded. Closing session number
session_number, socket descriptor
socket_file_descriptor.**

Explanation: The number of manager sessions exceeded the maximum allowed by the RMAPI. The last connection accepted will be closed.

User Response: Record the above information and contact the IBM Support Center.

2522-306 Internal program error: *error_text*.

Explanation: A **harml**d internal program error occurred.

User Response: Record the above information and contact the IBM Support Center.

2522-307 Exiting with internal return code *errno*.

Explanation: The **harml**d daemon is about to exit on a detected error.

User Response: Review prior messages to determine the error or contact the IBM Support Center.

2522-308 **Module *module_name* is not a regular file.**

Explanation: The monitor module was not found to be a regular file.

User Response: Record the above information and contact the IBM Support Center.

2522-309 **Unknown control message (*control_msg_ID*) received -n- from socket descriptor *socket_fd*.**

Explanation: The **harmlid** received an unknown control message type from the specified socket *socket_fd*.

User Response: Record the above information and contact the IBM Support Center.

2522-310 **A control message requested an unknown instance:**

Explanation: *Socket=descriptor*

Cmd=control_cmd_number

Instld=instance_module—instance_variable_id

The **harmlid** daemon received a control message which requested an unknown variable instance.

User Response: Contact the IBM Support Center. **harmlid** will ignore the control command and continue processing.

2522-311 **A control message requested an unregistered or unadded variable: *Socket=descriptor Cmd=control cmd number Class=variable class Var=variable name (variable resource ID)*.**

Explanation: **harmlid** received either an **HA_RR_CMD_ADDV** request to add an unregistered variable, or a **HA_RR_CMD_DELV** request to delete a variable that has not been previously added by **ha_rr_add_var()**. **harmlid** will ignore the control command and continue execution.

User Response: Record the above information and contact the IBM Support Center.

2522-312 **Unable to determine syspar name. SDRGetSyspar() failed.**

Explanation: While trying to determine the local system partition name, the SDR SDRGetSyspar() function was not successful, returning a NULL value.

User Response: Record the above information and contact the IBM Support Center.

2522-313 **ODM error: *ODM_function, ODM_error_string*"**

Explanation: While trying to determine the node number of the host machine, the ODM routine returned an error to **harmlid**.

User Response: Record the above information and contact the IBM Support Center.

2522-314 **The node number format in the ODM is not valid; value was: *value*.**

Explanation: **harmlid** attempted to determine the node number of the host machine. It found an object in the CuAt object class with the name attribute set to **sp** and attribute attribute set to **node_number**. However, the format of the value attribute was not valid. The value of the value attribute was *value*.

User Response: Contact the IBM Support Center.

2522-315 **Too many objects providing the node number were found in the ODM.**

Explanation: **harmlid** attempted to determine the node number of the host machine. It found more than one object in the CuAt object class with the name attribute set to **sp** and attribute attribute set to *node_number*. Therefore, the node number cannot be determined.

User Response: Contact the IBM Support Center.

2522-316 **The node number was not found in the ODM.**

Explanation: **harmlid** attempted to determine the node number of the host machine. No objects were found in the CuAt object class with the name attribute set to **sp** and attribute attribute set to *node_number*.

User Response: Contact the IBM Support Center.

2522-601 *daemon support routine : error message.*

Explanation: An AIXOS Resource Monitor routine called the specified daemon support routine. However, the support routine returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-602 **Could not start signal pipe for terminate signal.**

Explanation: An AIXOS Resource Monitor routine could not perform the initialization needed to handle a signal used to terminate the program.

User Response: Record the above information and contact the IBM Support Center.

2522-603 **Could not start signal pipe for alarm signal.**

Explanation: An AIXOS Resource Monitor routine could not perform the initialization needed to handle a signal used to receive alarms.

User Response: Record the above information and contact the IBM Support Center.

2522-604 **RMAPI routine RMAPI routine error error number : error message.**

Explanation: An AIXOS Resource Monitor routine called the specified RMAPI routine, that returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-605 **flag argument flag argument not a number.**

Explanation: An AIXOS Resource Monitor routine found a problem with the specified argument for the specified flag. The argument must be a number.

User Response: Record the above information and contact the IBM Support Center.

2522-606 **flag instantiation interval argument specified instantiation interval is negative.**

Explanation: An AIXOS Resource Monitor routine found a problem with the argument of the specified flag. The argument is the instantiation interval and it must be 0 or a positive number. The value specified is negative.

User Response: Record the above information and contact the IBM Support Center.

2522-607 **flag domain type argument specified domain type not valid.**

Explanation: An AIXOS Resource Monitor routine found a problem with the argument of the specified flag. The argument, the domain type, must be SP or HACMP.

User Response: Record the above information and contact the IBM Support Center.

2522-608 **flag domain name argument specified domain name not valid.**

Explanation: An AIXOS Resource Monitor routine found a problem with the argument of the specified flag. The argument is the domain name and it must not be a null string.

User Response: Record the above information and contact the IBM Support Center.

2522-609 **-flag flag requires an argument.**

Explanation: An AIXOS Resource Monitor routine found a problem with the specified flag. The flag must have an argument, but none was specified.

User Response: Record the above information and contact the IBM Support Center.

2522-610 **-flag flag not recognized.**

Explanation: An AIXOS Resource Monitor routine found a problem with the program arguments. The specified flag is not valid.

User Response: Record the above information and contact the IBM Support Center.

2522-611 **flag flag not specified.**

Explanation: An AIXOS Resource Monitor routine found a problem with the program arguments. The indicated flag was not specified, but it is required.

User Response: Record the above information and contact the IBM Support Center.

2522-612 **system routine system routine returned error: error message.**

Explanation: An AIXOS Resource Monitor routine called the specified system routine. However, the system routine returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-613 **An assertion has stopped program execution: (failed assertion).**

Explanation: An AIXOS Resource Monitor routine found that the specified assertion was not true. The assertion must always be true. This error indicates a logic error in the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-614 **An assertion has stopped program execution: (value 1 string operator value 2 string) value1: value 1 value2: value 2.**

Explanation: An AIXOS Resource Monitor routine found that an assertion was not true. The assertion must always be true. This error indicates a logic error in the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-615 An assertion has stopped program execution: (value 1 string operator value 2 string) value1: value 1 value2: value 2.

Explanation: An AIXOS Resource Monitor routine found that an assertion was not true. The assertion must always be true. This error indicates a logic error in the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-616 An assertion has stopped program execution: (value 1 string operator value 2 string) value1: value 1 value2: value 2.

Explanation: An AIXOS Resource Monitor routine found that an assertion was not true. The assertion must always be true. This error indicates a logic error in the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-617 An unrecognized command (*command*) was received from the RMAPI.

Explanation: An AIXOS Resource Monitor routine received an unrecognized command from a Resource Monitor Manager.

User Response: Record the above information and contact the IBM Support Center.

2522-618 The number of variables (*number of variables*) in a control message from the RMAPI was not positive.

Explanation: An AIXOS Resource Monitor routine received a control message from a Resource Monitor Manager that did not contain a positive number of variables.

User Response: Record the above information and contact the IBM Support Center.

2522-619 The EMCDB has a statistic *statistic name* unexpectedly at the top of the SPMI context tree.

Explanation: An AIXOS Resource Monitor routine found a statistic named in the Event Management Configuration Database at the top of the SPMI context tree. This is unexpected.

User Response: If the statistic was defined locally, correct the configuration. Otherwise, record the above information and contact the IBM Support Center.

2522-620 The EMCDB has a context *statistic name* not in the SPMI context tree.

Explanation: An AIXOS Resource Monitor routine found a statistic named in the Event Management Configuration Database that is not in the SPMI context tree.

User Response: If the statistic was defined locally, correct the configuration. Otherwise, record the above information and contact the IBM Support Center.

2522-621 SPMI routine *SPMI routine* returned error (*error code*): *error message*.

Explanation: An AIXOS Resource Monitor routine called the specified SPMI routine. However, the SPMI routine returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-622 SPMI-like routine *SPMI-like routine* was unsuccessful.

Explanation: An AIXOS Resource Monitor routine called the specified SPMI-like routine, which was not successful. The details of the error are given in a previously issued message.

User Response: Record the above information and contact the IBM Support Center.

2522-623 RMAPI routine *ha_rr_reg_var()* registered *actually registered of attempted to register variables*.

Explanation: An AIXOS Resource Monitor routine attempted to register resource variable instances with the RMAPI. The number of actually registered instances was less than the number of instance registration attempts.

User Response: Record the above information and contact the IBM Support Center.

2522-624 RMAPI routine *ha_rr_reg_var()* reported registration error *error number* for *name, resource ID, instance ID*.

Explanation: An AIXOS Resource Monitor routine called *ha_rr_reg_var()* to register the specified resource variable instance. The RMAPI routine returned the specified registration error number.

User Response: Record the above information and contact the IBM Support Center.

2522-625 RMAPI routine `ha_rr_add_var()` added actually added of attempted to add variables.

Explanation: An AIXOS Resource Monitor routine attempted to add resource variable instances with the RMAPI. The number of actually registered instances was less than the number of instance registration attempts.

User Response: Record the above information and contact the IBM Support Center.

2522-626 RMAPI routine `ha_rr_add_var()` reported add error *error number* for name, resource ID.

Explanation: An AIXOS Resource Monitor routine called `ha_rr_add_var()` to add the specified resource variable instance. The RMAPI routine returned the specified add error.

User Response: Record the above information and contact the IBM Support Center.

2522-627 RMAPI routine `ha_rr_unreg_var()` unregistered actually unregistered of attempted to unregister variables.

Explanation: An AIXOS Resource Monitor routine attempted to unregister resource variable instances with the RMAPI. The number of actually registered instances was less than the number of instance registration attempts.

User Response: Record the above information and contact the IBM Support Center.

2522-628 RMAPI routine `ha_rr_unreg_var()` reported unregistration error *error number* for name, resource ID.

Explanation: An AIXOS Resource Monitor routine called `ha_rr_unreg_var()` to unregister the specified resource variable instance. The RMAPI routine returned the specified unregistration error.

User Response: Record the above information and contact the IBM Support Center.

2522-629 SPMI routine *SPMI routine* returned error *error number* : *error message*.

Explanation: An AIXOS Resource Monitor routine called the specified SPMI routine. However, the SPMI routine returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-630 SPMI statistic returned error code *error number*.

Explanation: An AIXOS Resource Monitor routine encountered a statistic with the specified error code.

User Response: Record the above information and contact the IBM Support Center.

2522-631 Cannot support new session. Can only support *limit sessions*.

Explanation: An AIXOS Resource Monitor routine detected that a new RMAPI session has been established with the resource monitor, and that the number of sessions established exceeds the maximum number of RMAPI sessions supported by the resource monitor.

User Response: Record the above information and contact the IBM Support Center.

2522-632 Cannot remove unknown session *session descriptor*.

Explanation: An AIXOS Resource Monitor routine was requested to remove the specified RMAPI session, but the session was unknown.

User Response: Record the above information and contact the IBM Support Center.

2522-633 ODM routine *ODM routine* returned an error: *ODM error message*.

Explanation: An AIXOS Resource Monitor routine called the specified ODM routine. It returned the specified error.

User Response: Record the above information and contact the IBM Support Center.

2522-634 LVM routine *LVM routine* returned an error: *LVM error number*.

Explanation: An AIXOS Resource Monitor routine called the specified LVM routine, which returned the specified LVM error number.

User Response: Record the above information and contact the IBM Support Center.

2522-635 The command *command* terminated with the exit value *exit value*.

Explanation: An AIXOS Resource Monitor routine had run the command identified above to obtain information about the HACMP domain. The exit value of the command, *exit value*, indicates an error occurred.

User Response: Record the above information and contact the IBM Support Center.

2522-636 **The command *command* returned unexpected status: 0x *status*.**

Explanation: An AIXOS Resource Monitor routine ran the specified command to obtain information about the HACMP domain. The command terminated with unexpected status.

User Response: Record the above information and contact the IBM Support Center.

2522-637 **The command *command* did not return a domain name.**

Explanation: An AIXOS Resource Monitor routine ran the specified command to obtain information about the HACMP domain. The command did not return a domain name.

User Response: Record the above information and contact the IBM Support Center.

2522-900 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Errno=*error code*
Msg=Unable to start a session with the Hardware Monitor.

The Hardmon Resource Monitor was unable to connect to the Hardware Monitor via the specified API interface.

User Response: Ensure that the Hardware Monitor is active. If the problem persists, record the above information and contact the IBM Support Center.

2522-901 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Errno=*error code*
Msg=Unable to obtain system partition information.

The Hardmon Resource Monitor was unable to obtain system partition configuration information from the System Data Repository (SDR).

User Response: Verify that the SDR has been properly configured and that the Hardware Monitor configuration information is present in the SDR. For a description of this configuration information, see the man page for the **hardmon** command.

2522-902 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Errno=*error code*
Msg=Unable to obtain query information.

The specified API interface could not obtain state information from the Hardware Monitor daemon.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2522-903 **Hardware Monitor API error**

Explanation:

Module=*api interface*
Errno=*error code*
Msg=Unable to monitor state information.

The specified API interface could not obtain state information from the Hardware Monitor daemon.

User Response: If the problem persists, save the message data and contact the IBM Support Center.

2522-904 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Errno=*error code*
Msg=Unable to obtain state information.

The specified API interface could not obtain state information from the Hardware Monitor daemon.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2522-905 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Variable Index=*variable index*
Msg=Internal error, unknown variable id detected.

The Hardmon Resource Monitor has detected an unknown variable ID returned by the specified Hardware Monitor API interface. This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

2522-906 **Hardware Monitor API error.**

Explanation:

Module=*api interface*
Data Type=*data type code*
Msg=Internal error, unknown variable data type detected.

The Hardmon Resource Monitor detected an unknown data type returned by the specified Hardware Monitor API interface. This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

2522-907 Hardware Monitor API error.**Explanation:**

Module=*api interface*
Frame=*frame_id*
Slot=*slot_id*
Msg=Internal error, unexpected slot occupation detected.

This is a reserved message that is currently not used.

User Response: None.

2522-908 SDR error.**Explanation:**

Module=*api interface*
Errno=*error code*
Msg=Unable to start a session with the SDR.

The Hardmon Resource Monitor was unable to connect to the SDR.

User Response: Ensure that the SDR is active in the currently defined system partition. If problem persists, record the above information and contact the IBM Support Center.

2522-909 SDR error.**Explanation:**

Module=*api interface*
Errno=*error code*
Msg=Unable to obtain objects from the SDR *sdr class* class.

The Hardmon Resource Monitor could not obtain objects from the specified SDR class.

User Response: Ensure that the specified class is properly configured. If problem persists, record the above information and contact the IBM Support Center.

2522-910 SDR error.**Explanation:**

Module=*api interface*
Errno=*error code*
Msg=Unable to obtain *sdr object* from the SDR *sdr class* class.

The Hardmon Resource Monitor could not find the specified attribute.

User Response: Ensure that the specified class is properly configured. If the problem persists, record the above information and contact the IBM Support Center.

2522-911 SDR error.**Explanation:**

Module=*api interface*
Errno=*error code*
Msg=Undetermined data type for *sdr object* from the SDR *sdr class* class.

The Hardmon Resource Monitor found an unexpected data type for the specified attribute.

User Response: Ensure that the specified class is properly configured. If the problem persists, record the above information and contact the IBM Support Center.

2522-912 SDR error.**Explanation:**

Module=*api interface*
Msg=There are no frames defined in the SDR *sdr class* class.

Although the Hardmon Resource Monitor has successfully obtained configuration information from the SDR, the information in the specified class is incomplete.

User Response: Ensure that the specified class is properly configured. If the problem persists, record the above information and contact the IBM Support Center.

2522-913 Resource Monitor API error.**Explanation:**

Errno=*rm_api_error_code*
Msg=*rm_api_error_message*

The Event Manager, through the Resource Monitor API, has returned an unexpected error condition. The Resource Monitor API error code *errno* and error message *msg* returned by the Resource Monitor API are included in this message.

User Response: Correct the problem indicated by the Resource Monitor API error code *errno* and message *msg*. If the problem persists, record the above information and contact the IBM Support Center.

2522-914 Resource Monitor API warning.**Explanation:**

Module=*api interface*
Msg=Internal error, unknown control message *control message code* received.

The Hardmon Resource Monitor has received an unknown control message from the Resource Monitor API. This message indicates an internal program problem, but this error does not cause the Hardmon Resource Monitor to terminate.

User Response: If system degradation or unexpected

results occur, record the above information and contact the IBM Support Center.

2522-915 Resource Monitor API warning.**Explanation:**

Module=*api interface*
Msg=Internal error, incorrect instance ID *instance id code* received.

The Hardmon Resource Monitor has received an unknown control id named by *instance id code* in response from the Resource Monitor API. This message indicates an internal program problem, however this error does not cause the Hardmon Resource Monitor to terminate.

User Response: If system degradation or unexpected results occur, record the above information and contact the IBM Support Center.

2522-916 Resource Monitor API warning.**Explanation:**

Errno=*error code*
Variable=*resource name*
RsrcID=*resource ID*
Msg= *api request* not complete.

The Hardmon Resource Monitor received an "add", "delete", or "register" error from the Resource Monitor API. This message indicates an internal program problem, but this error does not cause the Hardmon Resource Monitor to terminate.

User Response: If system degradation or unexpected results occur, record the above information and contact the IBM Support Center.

2522-917 Could not allocate memory.**Explanation:**

Request=*requesting_data_structure*
Current=*bytes_currently_allocated* bytes
Attempted=*bytes_to_be_allocated* bytes

Memory could not be allocated for the named data structure.

User Response: Record the above information and contact the IBM Support Center.

2522-918 Internal error, select mask too small.

Explanation: This message indicates an internal program problem.

User Response: Record the above information and contact the IBM Support Center.

2522-919 System call error.**Explanation:**

Module= *system_call*
Errno=*system_error_code*
Msg= *system_error_message*.

This message indicates a problem with the kernel system interface named by *system_call*. The *system_error_code* and *system_error_message* are included.

User Response: Correct the problem indicated by the system error message. If the problem persists, record the above information and contact the IBM Support Center.

2522-920 Could not obtain kerberos ticket-granting-ticket. Logfile=*log file name*.

Explanation: The Hardmon Resource Monitor was unable to connect to the Hardware Monitor.

User Response: Check the security-related environment variables and authorization mechanisms as described in *PSSP: Administration Guide*. Check the specified log file for trace information. Use the information provided in the log file, which includes Kerberos error codes and messages, to correct the problem.

Chapter 33. 2523 - Topology Services messages

2523-001 Address for local adapter missing from the adapter information.

Explanation: There is no local adapter with the address expected for this offset. It is possible that the adapter is not configured or is configured with a different address than the one in the **machines.lst** file.

User Response: Verify that the adapter is configured with the correct address by issuing the **netstat -in** command. In the PSSP environment, the address for the adapter must match the address in the **machines.lst** file for the local node and given adapter offset. Verify that the adapter information is correctly entered in the SDR.

2523-002 GROUP_PROCLAIM message from outside the configuration, ID=*adapter_id*, ignored.

Explanation: Daemon received a Group Proclaim message from a node outside the current configuration. One or more daemons may have outdated configurations.

User Response: Perform a daemon refresh with the **hatsctrl -r** command on the control workstation and on every node in the affected partition.

2523-003 Got a heartbeat from someone that is not my neighbor, ID=*adapter_id* GID=*group_id*.

Explanation: A node did not respond to committing of new groups. This problem should be transient.

User Response: If the problem persists, reset the daemon on the offending node.

2523-005 Failed to send heartbeat to *adapter_id*.

Explanation: The heartbeat message was not sent, possibly due to network problems.

User Response: Fix any network problems.

2523-006 Unable to fork child process.

Explanation: Attempt to fork was not successful, possibly due to too many running processes.

User Response: Determine and correct the resource problem.

2523-007 *argument_value*: Not a valid *argument_flag* flag; positive integer expected.

Explanation: The daemon was invoked with an incorrect value for the indicated argument.

User Response: Correct the argument value to a positive integer value.

2523-008 *argument_value*: Not a valid *argument_flag* flag; non-negative integer less than *upper_bound* expected.

Explanation: The daemon was invoked with an incorrect value for the indicated argument.

User Response: Correct the argument value to a non-negative number less than the upper bound.

2523-009 *argument_value*: Not a valid *argument_flag* flag.

Explanation: The daemon was invoked with an incorrect flag.

User Response: Specify a flag with the correct value.

2523-010 *argument_value*: Not a valid *argument_flag* flag; integer expected.

Explanation: The daemon was invoked with an incorrect flag.

User Response: Specify a flag with an integer value.

2523-011 Unrecognized parameter *parameter*.

Explanation: The daemon was invoked with an unrecognized parameter.

User Response: Specify the parameter correctly.

2523-012 Unable to obtain socket port number from */etc/services*. FFDC id *FFDC error identifier*.

Explanation: The **hats.partition name** entry is missing in the **/etc/services** file.

User Response: Run the **syspar_ctrl -d hats** and **syspar_ctrl -a hats** commands in the affected partition.

2523-013 *adapter_offset*: Not a valid HB_SOCKET port number: expecting *lower_bound* - *upper_bound*.

Explanation: The specified port number is not in the range *lower_bound* - *upper_bound*.

User Response: Specify **HB_SOCKET** port number in the indicated range.

2523-014 **My node number is not defined. FFDC id** *FFDC error identifier.*

Explanation: This node was not specified in the configuration.

User Response: Correct the configuration error.

2523-015 **Do not know how to broadcast**
message_type **messages.**

Explanation: The daemon is not capable of broadcasting a message of the indicated type.

User Response: Record the above information and contact the IBM Support Center.

2523-016 **Unable to send message, remote**
socket is not ready for writing.

Explanation: The attempt to write to the Remote Socket was not successful.

User Response: Verify that the network is working correctly.

2523-017 **Received a** *message_type* **message for**
an unknown address *address.*

Explanation: Received a message that is not destined for any node in the configuration.

User Response: Record the above information and contact the IBM Support Center.

2523-018 **Could not obtain**
HB_SHARED_MEM_KEY
shared_memory_id. **FFDC id** *FFDC error*
identifier.

Explanation: Unable to obtain an interprocess communication key for shared memory.

User Response: Use the **ipcrm** command to clean up shared memory.

2523-019 **Could not obtain**
HB_SHARED_SEM_KEY. **FFDC id** *FFDC*
error identifier.

Explanation: Unable to obtain an interprocess communication key for semaphore.

User Response: Use the **ipcrm** command to clean up semaphore.

2523-020 **Could not create shared memory**
segment
shared_memory_segment_number. **FFDC**
id *FFDC error identifier.*

Explanation: Unable to create a shared memory segment.

User Response: Use the **ipcrm** command to clean up shared memory.

2523-021 **Could not attach shared memory**
segment
shared_memory_segment_number. **FFDC**
id *FFDC error identifier.*

Explanation: Unable to attach to a shared memory segment.

User Response: Use the **ipcrm** command to clean up shared memory.

2523-022 **Could not create semaphore. FFDC id**
FFDC error identifier.

Explanation: Unable to create a semaphore.

User Response: Use the **ipcrm** command to clean up semaphores.

2523-023 **Could not initialize semaphore. FFDC**
id *FFDC error identifier*

Explanation: Unable to initialize a semaphore.

User Response: Use the **ipcrm** command to clean up semaphores.

2523-024 *key_number:* **Not a valid**
HB_SHARED_MEM_KEY **number:**
expecting *lower_bound - upper_bound.*

Explanation: The shared memory key number is not in the valid range.

User Response: Specify a correct shared memory key number.

2523-025 *key_number:* **Not a valid**
HB_SHARED_SEM_KEY **number:**
expecting *lower_bound - upper_bound.*

Explanation: Shared memory key number is not in the valid range.

User Response: Specify a correct shared memory key number.

2523-026 **Could not open Local Socket. FFDC id**
FFDC error identifier.

Explanation: An attempt to open the connection socket was not successful, possibly because of incorrect permissions.

User Response: Remove the local socket file.

2523-027 *option: setsockopt on socket class*
Socket failed. FFDC id FFDC error
identifier.

Explanation: Unable to set the socket option on the socket class (Remote, Listening, Client).

User Response: Try to set the socket option again.

2523-028 **Could not bind Local Socket =**
file-descriptor to socket-name. FFDC id
FFDC error identifier.

Explanation: Unable to bind the local socket with the indicated file descriptor.

User Response: Remove the socket file and try again.

2523-029 **Unable to send message on Remote**
Socket, message too long.

Explanation: The **sendto** command returned an errno of EMSGSIZE due to the size of the message.

User Response: None.

2523-030 **Client message from pid=(PID) on an**
unregistered socket, message ignored.

Explanation: Received a client message from the indicated PID. This PID is no longer a registered client, or possibly registered with a different PID.

User Response: This process must register to have access.

2523-031 **Incomplete client message sent,**
bytes_sent out of msg_size bytes sent.

Explanation: Unable to send the entire message.

User Response: None.

2523-033 **Unable to send Client message, the**
message pointer is not valid.

Explanation: The message pointer is not valid.

User Response: Start the **hats** daemon again in this partition.

2523-034 **Function listen () failed. Errno = errno.**
FFDC id FFDC error code.

Explanation: The call to function listen() was not successful.

User Response: None.

2523-035 **Listening Socket Error ID = error_id,**
not recognized.

Explanation: An error was generated that was not recognized.

User Response: None.

2523-036 **Error Accepting Client Connection,**
errno=errno.

Explanation: The accept of a connection request was not successful.

User Response: None.

2523-037 **Error sending data to pid=pid, rc =**
return_code, errno = errno.

Explanation: Error sending data to indicated process id.

User Response: None.

2523-038 **Error receiving data from pid=pid, rc =**
return_code, errno = errno.

Explanation: Error receiving data from indicated process id.

User Response: None.

2523-039 **Could not open Remote Socket. FFDC**
id FFDC error code.

Explanation: Unable to open remote socket. This may indicate lack of resources.

User Response: Identify and correct the problem and try again.

2523-040 *option: setsockopt on socket class*
Socket failed. FFDC id FFDC error code.

Explanation: Unable to set the socket option on the socket class (Remote, Local, Client).

User Response: Try to set the socket option again.

2523-041 **Could not bind Remote Socket to**
address = address, port = port-number.
FFDC id FFDC error code.

Explanation: Unable to bind the remote socket to the indicated port number.

User Response: Check to see if the port number is already in use.

2523-042 **Getsockname on Remote Socket failed.**
FFDC id *FFDC error code*.

Explanation: An internal daemon error may be the cause of the problem.

User Response: None.

2523-043 **Unmatching From ID.**

Explanation: The address of the sender and the address listed in the message do not match.

User Response: None.

2523-044 **Received *message_size* bytes from *sender_address* with unmatching from ID.**

Explanation: The address of the sender and address listed in the message do not match.

User Response: Verify the source of the message.

2523-045 **Bad Socket Descriptor.**

Explanation: The socket descriptor is corrupted.

User Response: Start the topology services daemon again.

2523-046 **Internal Data Error.**

Explanation: An internal data error was detected.

User Response: None.

2523-047 **Caught Signal.**

Explanation: The **select** call ended due to a signal.

User Response: None.

2523-048 **Select data value not valid.**

Explanation: A parameter to a **select** call was not valid.

User Response: Start the daemon again.

2523-049 **Select data pointer not valid.**

Explanation: The data pointer to the **select** call is not valid.

User Response: Start the daemon again.

2523-050 **Unexpected error from select.**

Explanation: Unexpected **errno** set by the **select** call.

User Response: Start the daemon again.

2523-051 **Could not open machine file *file_name*.**
FFDC id *FFDC error code*.

Explanation: Unable to open the machines list file indicated.

User Response: Check to see if the file exists and has the appropriate permissions.

2523-055 **Node number duplicated: *string*.** FFDC id *FFDC error code*.

Explanation: The string is the line in the machines list that duplicates the node number.

User Response: Fix the inconsistency in the configuration.

2523-056 **Gethostbyname *host_name* Failed, *errno* = *errno*.**

Explanation: Unable to convert the host name to an IP address.

User Response: Verify that the host name is known to the network server and name server.

2523-057 **IP address duplicated: node *node_number* address *IP_address*.**
FFDC id *FFDC error code*.

Explanation: The indicated IP address was already encountered in the configuration.

User Response: Fix the inconsistency in the configuration.

2523-058 **Ignoring Adapter *adapter_name* at offset *adapter_offset* on node *node_number*.** FFDC id *FFDC error code*.

Explanation: Unable to convert the adapter name *adapter_name* of the adapter at the adapter offset *adapter_offset* on node indicated to an IP address.

User Response: Verify that adapter is known to the network and name server.

2523-059 **Network *network-name* exceeds limit of *offsets-allowed* networks, will be ignored.** FFDC id *FFDC-error-identifier*.

Explanation: The number of offsets in the **machines.lst** file exceeds the maximum allowed.

User Response: Reduce number of networks or adapters in system.

2523-060 Configuration error - no nodes defined.

Explanation: No nodes or adapters defined in the machines list file.

User Response: Check to see if the configuration has nodes defined.

2523-061 Refresh: deleted myself!

Explanation: An interface on this node is missing from the configuration.

User Response: Verify if you intended to omit the interface.

2523-062 Operation: ioctl failed. FFDC id FFDC error code.

Explanation: The **ioctl** operation was not successful.

User Response: Determine the reason for the problem.

2523-063 Node is not in my group, ignoring Node Connectivity message!

Explanation: Received a node connectivity message from a node that is not in my group.

User Response: If the problem persists, restart the daemon that issued the message.

2523-064 Node number for *adapter_offset* is not valid, ignoring message!

Explanation: The indicated adapter ID does not correspond to a valid node number.

User Response: Verify the source of the message.

2523-065 NCT unable to compute node reachability!

Explanation: Unsuccessful in computing node reachability.

User Response: Start the daemon again.

2523-066 Node number of *adapter_offset* in my group not found.

Explanation: Unable to map an adapter in my group to a node number.

User Response: If the problem persists, stop and then start the **hats** daemon by issuing the **hatsctrl -k** and **hatsctrl -s** commands.

2523-067 Adapter (*IP-address*) at offset *adapter_offset* not found.

Explanation: Unable to find this group member in NCT.

User Response: If the problem persists, obtain a core dump of the daemon by issuing the command **kill -6 *daemon process id*** and contact the IBM Support Center.

2523-068 Node number *node number* is not valid.

Explanation: Unable to convert from adapter ID to node number.

User Response: If the problem persists, obtain a core dump of the daemon by issuing the command **kill -6 *daemon process id*** and contact the IBM Support Center.

2523-069 No members in current group.

Explanation: No members exist in the current group.

User Response: None.

2523-070 My adapter not in current group.

Explanation: The adapter is not a member of my own group.

User Response: None.

2523-071 Adapter *adapter_offset* is already in the current group.

Explanation: Attempted to merge groups that had a member in common.

User Response: None.

2523-072 Missing adapter not found in my group.

Explanation: Members to be removed from the group were already missing.

User Response: None.

2523-073 My node number is not defined.

Explanation: The node number is not defined.

User Response: Check for the node definition in */var/ha/run/hats.partition name/machines.lst*.

2523-074 Adapter offset *adapter_offset* is not valid.

Explanation: Adapter offset indicated is out of range.

User Response: Specify a valid adapter offset.

2523-075 **Old subscription entry
old_subscription_entry still exists.**

Explanation: An old subscription entry already exists.

User Response: Remove the old subscription entry before creating a new one.

2523-076 **Unknown subscription type.**

Explanation: Not a valid subscription type.

User Response: Specify a valid subscription type.

2523-077 **Cannot send Hb_No_Event to clients.**

Explanation: Not a valid event.

User Response: Specify a valid subscription event.

2523-078 **Cannot send Hb_All_Events to clients.**

Explanation: Not a valid event.

User Response: Specify a valid subscription event.

2523-079 **Cannot send Unknown event to clients.**

Explanation: Not a valid event.

User Response: Specify a valid subscription event.

2523-080 **Cannot delete a NULL entry.**

Explanation: Attempted to delete a null interest entry.

User Response: None.

2523-081 **Cannot delete entry from an empty list.**

Explanation: Attempted to delete a subscription entry from an empty list.

User Response: None.

2523-082 **ACK retry count exhausted, no ACK sent.**

Explanation: Already sent maximum number of retry ACKs.

User Response: None.

2523-083 **Leader died and originator is not the crown prince.**

Explanation: The Group leader died, and the PTC message was not from the crown prince.

User Response: None.

2523-084 **From Id = sender_ID From Group ID = sender_GID.**

Explanation: Display sender's ID and Group ID.

User Response: None.

2523-085 **Crown Prince Id = ID.**

Explanation: Display the crown prince's ID.

User Response: None.

2523-086 **PTC NAK ignored, I am not the group leader.**

Explanation: Received a PTC negative acknowledgment, but I am not the group leader.

User Response: None.

2523-087 **PTC NAK ignored, I am not committing.**

Explanation: Received a PTC negative acknowledgment, but I am not processing a group change.

User Response: None.

2523-088 **PTC NAK ignored, no longer in PTC mode.**

Explanation: Receive a PTC negative acknowledgment, but no longer accepting them.

User Response: None.

2523-089 **PTC ACK ignored, I am not the group leader.**

Explanation: Received a PTC acknowledgment, but I am not the group leader.

User Response: None.

2523-090 **PTC ACK ignored, I am not committing.**

Explanation: Received a PTC acknowledgment, but I am not processing a group change.

User Response: None.

2523-091 **PTC ACK ignored, no longer in PTC mode.**

Explanation: Received a PTC acknowledgment, but I am no longer accepting them.

User Response: None.

2523-092 **JOIN request rejected, I am not the group leader.**

Explanation: Received a JOIN request, but I am not the group leader.

User Response: None.

2523-093 **JOIN request rejected, I am currently busy.**

Explanation: Received a JOIN request, but I am currently busy handling group changes.

User Response: None.

2523-094 **DEATH_IN_FAMILY ignored, not from a group member.**

Explanation: Received a DEATH_IN_FAMILY message, but it was not from a group member.

User Response: None.

2523-095 **DEATH_IN_FAMILY ignored, I am not the group leader.**

Explanation: Received a DEATH_IN_FAMILY message, but I am not the group leader.

User Response: None.

2523-096 **DISSOLVE GROUP ignored, not from a group member.**

Explanation: Received a DISSOLVE GROUP message from outside our group.

User Response: None.

2523-097 **JOIN time has expired. PROCLAIM message was sent by *proclaimer*.**

Explanation: Time has expired for waiting for a reply to our JOIN request. Wait for another proclaim message. If this problem occurs repeatedly, it may indicate that this node and the proclaimer are having problems communicating in both directions.

User Response: None.

2523-098 **PTC ACK time has expired, committing group.**

Explanation: Time has expired for waiting for PTC acknowledgments, commit the group with the members that did acknowledge.

User Response: None.

2523-099 **COMMIT BROADCAST ACK time has expired, ACKS missing.**

Explanation: Not everyone acknowledged the commit broadcast message.

User Response: None.

2523-100 **COMMIT ACK time has expired, not everyone ACKed.**

Explanation: Not everyone in the new group responded.

User Response: None.

2523-101 **PTC ACK retry count exhausted.**

Explanation: A Commit was never received.

User Response: None.

2523-102 **COMMIT time has expired, reinitializing.**

Explanation: The node has lost communication with the leader. The node assumes a "singleton" role.

User Response: None.

2523-103 **Received an unknown message type, message = *message_type*.**

Explanation: The message received is not recognized.

User Response: None.

2523-104 **Malloc failed, size = *size*.**

Explanation: Not able to satisfy the memory request. This is indicative of a memory leak.

User Response: Start the daemon again.

2523-105 **Group Connectivity Message from outside the configuration, ID=*adapter_ID*, ignored.**

Explanation: Received a group connectivity message from outside the configuration.

User Response: None.

2523-106 **Open of *css0* device failed.**

Explanation: Unable to open **css** device.

User Response: Check permissions on **/dev/css0**.

2523-107 **Css ioctl Failed rc = *return_code* errno = *errno*.**

Explanation: The `ioctl` of the `css` device was not successful and issued the indicated return code and `errno` value.

User Response: Record the above information and contact the IBM Support Center.

2523-108 **Undefined return from switch ioctl = *return_value*.**

Explanation: The return value from `ioctl` of `css` device was unexpected.

User Response: Record the above information and contact the IBM Support Center.

2523-111 **Sending data to pid=*PID* would block, complete message not sent.**

Explanation: Client socket not ready for sending.

User Response: None.

2523-112 **Sending data to pid=*PID* interrupted and not restarted.**

Explanation: Interrupted system call.

User Response: None.

2523-113 **Sending data to pid=*PID* caused an IO ERROR.**

Explanation: The client socket class caused an IO error.

User Response: None.

2523-114 **Receiving data from pid=*PID* would block, complete message not received.**

Explanation: The client socket is not read for reading.

User Response: None.

2523-115 **Receiving data from pid=*PID* interrupted and not restarted.**

Explanation: Interrupted system call.

User Response: None.

2523-116 **Sending data to pid=*PID* caused an IO ERROR.**

Explanation: The client socket class caused an IO error.

User Response: None.

2523-117 **Client Socket Error ID = *error_ID*, not recognized.**

Explanation: Unrecognized error from the client socket class.

User Response: None.

2523-118 **sendto would block.**

Explanation: The socket is not ready for sending.

User Response: None.

2523-119 **recvfrom would block.**

Explanation: There is nothing to receive at this point.

User Response: None.

2523-120 **recvfrom failure.**

Explanation: Receive error from the remote socket.

User Response: None.

2523-121 **Late in sending Heartbeat by *seconds.microseconds* seconds.**

Explanation: Heartbeats are sent out based on the time specified by the `TS_Frequency` tunable values with a default of one second. The daemon checks how much time has elapsed since the last heartbeat was sent. If the difference is greater than two times the `TS_Frequency` tunable value, this message displays by how many seconds it was late.

User Response: None.

2523-122 ***tunable_value*, Not a valid value for TS_Frequency; positive integer expected.**

Explanation: The tunable value is encoded as part of the configuration and is specified in the `TS_Config` object in the SDR.

User Response: Specify a correct value.

2523-123 ***tunable_value*, Not a valid value for TS_Sensitivity; positive integer expected.**

Explanation: The tunable value is encoded as part of the configuration and is specified in the `TS_Config` object in the SDR.

User Response: Specify a correct value.

2523-124 *tunable-value* does not specify a valid value for **TS_FixedPriority**. Valid values are between *lowest-valid-value* and *highest-valid-value*. Default fixed priority *default_value* used.

Explanation: The tunable value is encoded as part of the configuration. For PSSP, the tunable value is specified in the **TS_Config** class in the SDR. In the HACMP environment, the tunable value is in the **HACMPtopsvcs ODM** class. In the Linux GPFS environment, the tunable value is in the **GPFS mini-SDR**.

User Response: Specify a valid fixed priority value.

2523-125 *tunable-value*, **Not a valid value for TS_LogLength; positive integer expected.**

Explanation: The tunable value is encoded as part of the configuration and is specified in the **TS_Config** object in the SDR.

User Response: Specify a correct value.

2523-145 **Unable to lock queue.**

Explanation: This message indicates an internal program error.

User Response: Record the above information and contact the IBM Support Center.

2523-146 **Unable to unlock queue.**

Explanation: This message indicates an internal program error.

User Response: Record the above information and contact the IBM Support Center.

2523-147 **Unable to increment count of items of queue.**

Explanation: This message indicates an internal program error.

User Response: Record the above information and contact the IBM Support Center.

2523-148 **Unable to decrement count of items of queue.**

Explanation: This message indicates an internal program error.

User Response: Record the above information and contact the IBM Support Center.

2523-149 **Unable to initialize thread attributes.**
FFDC id *FFDC error identifier*.

Explanation: The program could not initialize thread attributes. Therefore, the program could not create a new thread to send or receive messages, or to handle client requests.

User Response: Record the above information and contact the IBM Support Center.

2523-150 **Unable to create the send thread for adapter.** FFDC id *FFDC error identifier*.

Explanation: The program could not create the thread responsible for sending messages.

User Response: Record the above information and contact the IBM Support Center.

2523-151 **Unable to create the receive thread for adapter.**

Explanation: The program could not create the thread responsible for receiving messages.

User Response: Record the above information and contact the IBM Support Center.

2523-152 **Incorrect machines list file, Instance Number header not found.**

Explanation: The machines list has an incorrect format. The instance number header was not found at the top of the file.

User Response: Verify the contents of the **machines.lst** file. Stop and then start the **hats** daemon again, using the **hatsctrl -k** and **hatsctrl -s** commands.

2523-153 **Incorrect machines list file.**
Configuration ID header not found.

Explanation: The machines list has an incorrect format. The configuration ID header is missing from the top of the file.

User Response: Verify the contents of the **machines.lst** file. Stop and then start the **hats** daemon again. Issue the **hatsctrl -k** and **hatsctrl -s** commands.

2523-154 **Incorrect machines list file, new ID=*new-config-id* current ID=*current-config-id*.** FFDC id *FFDC error identifier*.

Explanation: The configuration ID in the new **machines.lst** file generated during a refresh operation is different from the previous version of the file.

User Response: Record the above information and contact the IBM Support Center.

2523-155 Refresh dispatcher process pid *hatsctrl/topsvcsctrl-process-pid* has not finished.

Explanation: The refresh dispatcher process has not finished yet. The refresh dispatcher process is used to rebuild the machines list file and refresh the configuration,

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-156 Error *errno-value* in *waitpid()* system call.

Explanation: The *waitpid()* call issued by the daemon to obtain the exit status of the refresh dispatcher process returned with an error value.

User Response: Record the above information and contact the IBM Support Center.

2523-157 Refresh dispatcher process terminated with signal *signal-number*.

Explanation: The refresh dispatcher process terminated using the specified signal.

User Response: Record the above information and contact the IBM Support Center.

2523-200 Function not implemented yet.

Explanation: This message indicates an internal program error.

User Response: Record the above information and contact the IBM Support Center.

2523-201 TMIOSTAT ioctl failed

Explanation: The TMIOSTAT IOCTL call that was issued for a Target-mode device was unsuccessful. The daemon cannot use the Target-mode device for heartbeating.

User Response: Record the above information and contact the IBM Support Center.

2523-202 SCSI Adapter Error.

Explanation: An attempt to obtain the operational status of the of the Target-mode device returned an error.

User Response: Record the above information and contact the IBM Support Center.

2523-203 General error in SCSI Card Status.

Explanation: An attempt to obtain the operational status of the Target-mode device returned an error.

User Response: Record the above information and contact the IBM Support Center.

2523-204 Failed to obtain SCSI device sense.

Explanation: An attempt to obtain Target-mode device sense data was unsuccessful.

User Response: Record the above information and contact the IBM Support Center.

2523-205 Sleeping too long without getting data.

Explanation: An attempt to obtain data from a Target-mode device is timing out.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-206 Connection lost.

Explanation: An error occurred while reading data from a non-IP device.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-207 Failed to open serial port on *device-name*.

Explanation: An attempt to open a serial port device for heartbeating was not successful. The daemon cannot use that device for heartbeating.

User Response: Check to see if the device exists and is of the correct type.

2523-208 Could not get the flags - fcntl error

Explanation: The program could not get the flags associated with a serial device.

User Response: Check to see if the serial device is of the correct type.

2523-209 fcntl failure - could not set to non-blocking and no delay.

Explanation: The program could not configure a serial device for non-blocking and no delay mode.

User Response: Check to see if the serial device is of the correct type. If it is and the problem still occurs, record the above information and contact the IBM Support Center.

2523-210 Terminal device is not OK.

Explanation: The program could not set the current serial device state information

User Response: Check to see if the serial device is of the correct type. If it is and the problem still occurs, record the above information and contact the IBM Support Center.

2523-211 Failed to set attributes for device.

Explanation: The program could not set serial device characteristics.

User Response: Check to see if the serial device is of the correct type. If it is and the problem still occurs, record the above information and contact the IBM Support Center.

2523-212 Could not add rts to stream stack.

Explanation: The program could not set the serial device to add rts to the stream stack.

User Response: Check to see if the serial device is of the correct type. If it is and the problem still occurs, record the above information and contact the IBM Support Center.

2523-213 Failed to flush input and output.

Explanation: The program could not flush input and output in a serial device.

User Response: Check to see if the serial device is of the correct type. If it is and the problem still occurs, record the above information and contact the IBM Support Center.

2523-214 No data read from device *device-name*.

Explanation: The program could not read any data from the specified device. The connection may be broken or the remote node may not be alive, or the daemon may not be running on the remote node.

User Response: Check to see if the serial connection is operating correctly and if the daemon is running on the remote node.

2523-215 SCSI port *device-name* open failed.

Explanation: The program could not open a Target-mode device for heartbeating. The daemon cannot use the device for heartbeating.

User Response: Check to see if the device actually exists and is of the correct type.

2523-216 Trying to send to a device not opened.

Explanation: The program was not successful sending a message to a Target-mode device that is not opened.

User Response: Record the above information and contact the IBM Support Center.

2523-217 No elements in the queue.

Explanation: There are no elements in the queue for a Target-mode device.

User Response: Record the above information and contact the IBM Support Center.

2523-218 Packet size less than zero.

Explanation: An error occurred while passing a packet from the Target-mode receive thread to the main thread.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-219 Did not write all the bytes. Packet size =*packet-size*. Bytes sent=*bytes-sent*, device *device-name*.

Explanation: An error occurred while writing to a serial or Target-mode device. The remote daemon may not be running, or the connection may be broken.

User Response: Check to see if the remote daemon is running and device connection is operating correctly.

2523-220 Did not write all the bytes. Packet type = *packet-type*, device *device-name*.

Explanation: An error occurred while writing to a serial or Target-mode device. The remote daemon may not be running, or the connection may be broken.

User Response: Check to see if the remote daemon is running and the device connection is operating correctly.

2523-221 Packet size too long!! Packet size = *packet-size*.

Explanation: The program tried to write a packet that is larger than the maximum allowed into a serial or Target-mode device

User Response: Record the above information and contact the IBM Support Center.

2523-222 Packet check sum incorrect, device *device-name*.

Explanation: The program received a packet with an incorrect checksum through the serial device. A noisy connection or another process trying to use the same serial device may cause this error.

User Response: Check the serial connection. Also, check to see if there are other processes trying to write to the same serial device.

2523-223 **Errno *errno* when writing packet on *device-name*.**

Explanation: The program received the specified error code when trying to write a packet to specified device. The connection may be broken or the daemon on the remote node may not be running.

User Response: Check the device connection. Also check to see if the daemon is running on the remote node.

2523-224 **Received a Grace request from *Adapter-ID* with incorrect or missing data: 4 words of data from the auxiliary header.**

Explanation: The details contained in the auxiliary header were not present. The second line contains the data that was found.

User Response: This message indicates corrupted message data. Record the above information and contact the IBM Support Center.

2523-225 **Cannot find network offset in ADAPTER_CONFIGURATION message. *Gid group-id*, address *0xaddress*.**

Explanation: The program could not find the network offset that contains the specified address in an ADAPTER_CONFIGURATION message.

User Response: If the message persists, record the above information and contact the IBM Support Center.

2523-226 **Cannot force boot-to-service transition for *boot-addr1*. Service addr *serv-addr* is being used in offset *offset*, boot addr *boot-addr2*.**

Explanation: The program cannot force a boot-to-service transition for the specified boot address because the specified service address is already being used by the second specified boot address.

User Response: There is a problem in the configuration, either before or after migration. Force a dump of the Topology Services daemon by using the **kill -6 *pid of hatsd* in HACMP/ES** command. Record the above information and contact the IBM Support Center.

2523-227 **Cannot find adapter number for address *boot-addr* when trying to force a boot-to-service transition. FFDC id *FFDC error identifier*.**

Explanation: The adapter number for the adapter with the specified address is missing. The adapter number is needed in the process of forcing a boot-to-service transition after a migration refresh.

User Response: There is a problem in the configuration, either before or after migration. Force a dump of the Topology Services daemon by using the **kill -6 *pid of hatsd* in HACMP/ES** command. Record the above information and contact the IBM Support Center.

2523-228 **Address *serv-addr* is already in use when trying to force a boot-to-service transition for address *boot-addr*. FFDC id *FFDC error identifier*.**

Explanation: The specified address is already in use by another adapter when trying to force a boot-to-service transition after a migration refresh.

User Response: There is a problem in the configuration, either before or after migration. Force a dump of the Topology Services daemon by using the command **kill -6 *pid of hatsd* in HACMP/ES**. Record the above information and contact the IBM Support Center.

2523-229 **Cannot find service address for *boot-addr* when trying to force a boot-to-service transition. FFDC id *FFDC error identifier*.**

Explanation: After a migration refresh, the current address configured on the adapter does not match any of the possible service addresses for this network.

User Response: There is a problem in the configuration, either before or after migration. Force a dump of the Topology Services daemon by using the command **kill -6 *pid of hatsd* in HACMP/ES**. Record the above information and contact the IBM Support Center.

2523-230 **Interface name for *addr* missing in *machines.lst* file. Discarding adapter. FFDC id *FFDC error identifier*.**

Explanation: The interface name for the adapter was missing from the **machines.lst** file that was produced in a refresh operation.

User Response: There may be a problem with either the HACMP/ES cluster manager or the Topology Services script. Record the above information and contact the IBM Support Center.

2523-231 Invalid slide of adapter *interface node* into network *network-name:* migration refresh.

Explanation: The `machines.lst` produced for a migration refresh has caused the Topology Services daemon to attempt an adapter slide. Adapter slides are adapters moving into a different Topology Services network. They are not allowed in a migration refresh, since adapters cannot be added or removed in a migration refresh.

User Response: There may be a problem with either the HACMP/ES cluster manager or the Topology Services script. Record the above information and contact the IBM Support Center.

2523-232 *key-version-value*, Not a valid value for **KeyVersion**; positive integer expected.

Explanation: The version of encryption key for peer authentication is not in the correct format. It should be a positive integer.

User Response: There may be a problem with the DCE administration or the SP security services. Contact the IBM Support Center.

2523-233 Received a *message-type* message from *sender-address* that cannot be authenticated. Message was late by *delay time* seconds.

Explanation: The daemon received a daemon-to-daemon message with one of these problems:

- The message contains an encrypted checksum that cannot be authenticated.
- The message contains timestamp indicating that the message is a replay of a previous message.

User Response: Either there is a security breach attempt, or some delay in network transmission. Inform your system administrator of this message immediately.

2523-234 Security services routine failed. File: *filename*, line: *line number*, spsec routine: *spsec routine*, spsec error code: *spsec error code*, DCE error code: *DCE error code*, GSSAPI major error code: *GSSAPI major error code*, GSSAPI minor error code: *GSSAPI minor error code* system call **errno**: *errno* DCE routine: *DCE routine* spsec error text: *spsec error text*.

Explanation: The daemon could not verify local security configuration because of the following reasons:

- The security services library `/usr/lib/libspsec.a` is not installed.
- Calls to security services routines failed.

- Local node is not configured in DCE-only mode.

User Response: Inform the system administrator immediately. If the problem persists, inform the IBM Support Center.

2523-235 Failed to load SP security services library `/usr/lib/libspsec.a`

Explanation: The daemon could not load SP security services library `/usr/lib/libspsec.a`.

User Response: Inform the system administrator immediately. If the problem persists, inform the IBM Support Center.

2523-236 The call to `des_key_sched` failed. rc = *return code*.

Explanation: The call to `des_key_sched` was not successful.

User Response: If the problem persists, inform the IBM Support Center.

2523-237 Active authentication methods for trusted services are: DCE if DCE on, compat if compat on. Expect DCE only.

Explanation: Local node should be configured in DCE-only mode, but it is not.

User Response: Inform the system administrator immediately. If the problem persists, inform the IBM Support Center.

2523-238 During the past *interval in seconds* seconds, daemon has received *number of failures* messages that cannot be authenticated.

Explanation: During a certain time interval, the daemon received several daemon-to-daemon messages, each of which had one of these problems:

- The message contained an encrypted checksum that could not be authenticated.
- The message contained a timestamp that indicated that the message is a replay of a previous message.

User Response: Either there is a security breach attempt, or some delay in network transmission. Inform the system administrator immediately.

2523-239 Hats script on CWS could not determine the security state. Daemon exiting. FFDC id *FFDC error identifier*.

Explanation: The hats script on the control workstation either could not determine the security mode of the partition, or could not access the hats keyfile.

User Response: There are installation problems or

configuration problems with DCE or PSSP security services. Inform the system administrator immediately.

2523-240 Time-to-Live expired for Daemon Routing message. Port *port-number*, first destination *first-destination-node*.

Explanation: There is a routing loop in the Daemon Routing messages. Different nodes have inconsistent views of the network topology. The present daemon routing message is discarded.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-241 No route to send Daemon Routing message to node *node-number* (port *port-number*).

Explanation: No route was found when trying to send a Daemon Routing message to the specified node. It may be due to a temporary route outage. Usually Group Services does not pass a Daemon Routing request to Topology Services if there is no route to the destination node.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-242 Low priority queue is full. Discarding packet *packet-type*, device *device-name* (total *total-count-dropped* dropped).

Explanation: The queue for low priority packets is full, forcing a low priority packet to be discarded. Low priority packets should correspond to PRM packets. The PRM client will retry these packets. This message generally indicates a burst of Daemon Routing messages.

Keeping too many of these messages in the queue is not useful, since after some point, the time it takes for the message to be transmitted to the destination is more than enough time for the client to consider the message lost.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-243 Cannot find adapter offset to send Daemon Routing message. Destination: *destination-adapter*.

Explanation: The Daemon Routing logic was unable to find an adapter offset that corresponds to a given destination address (which is the first hop of the message route). A changing network topology could cause the problem.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-244 Invalid number of destination nodes in Daemon Routing message: *number-of-nodes*.

Explanation: The Topology Services daemon received a request to send a Daemon Routing message to a number of nodes which was not valid. The request is likely to contain data which is not valid.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-245 Invalid node number in Daemon Routing message: *node-number*.

Explanation: The Topology Services daemon received a request to send a Daemon Routing message to an incorrect node number. The request is likely to contain data which is not valid.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-246 Invalid size of PRM message in Daemon Routing message: *size-of-PRM-message*.

Explanation: The Topology Services daemon received a request to send a Daemon Routing message with an incorrect number of bytes. The number of bytes is specified above. The request is likely to contain data which is not valid.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2523-250 Duplicated network name in machines.lst *network name*. FFDC id *FFDC id*.

Explanation: The machines.lst file was generated with a duplicated network in the Topology Services startup script.

User Response: Contact the IBM Support Center.

2523-251 Internal error: *source-file, line-number*. Value 1: *value-1*. Value 2: *value-2*.

Explanation: An internal error has occurred.

User Response: Record the above information and contact the IBM Support Center.

2523-252 Topology Services is using almost all CPU cycles available (*milliseconds-CPU-time msec of CPU in the last milliseconds-elapsed msec*): exiting. FFDC id [*FFDC-id*].

Explanation: The daemon or the child processes are using almost all CPU cycles available, probably not accomplishing its goals and also preventing other

processes from running. The daemon will exit with a core dump to clean up the situation and allow debugging.

User Response: Record the above information and contact the IBM Support Center.

2523-253 **Main thread has not made progress for *seconds-blocked* seconds (number of major page faults in the last *milliseconds-elapsed* msec: *major-page-faults*): exiting. FFDC id [*FFDC-id*].**

Explanation: The main thread was unable to make progress for the given amount of time. It is very likely that some resource shortage or deadlock is preventing the main thread from running. The daemon will exit, since the main thread needs to make progress to give correct notifications to clients.

User Response: Examine the memory and disk I/O load to locate the cause of the resource shortage. If a cause is not found and the problem cannot be corrected, record the above information and contact the IBM Support Center.

2523-254 **After *number-of-retries* retries, daemon still could not find key version *key-version* in keyfile. Exiting. FFDC id [*FFDC-error-identifier*].**

Explanation: The hats daemon could not find the specific key in the hats keyfile `/spdata/sys1/keyfiles/rsctl/partition/hats` after several retries.

User Response: Verify that the keyfiles on the control workstation and the nodes are consistent. If the problem persists, record the above information and contact the IBM Support Center.

2523-255 **Unable to open a pipe to command *command-path*.**

Explanation: The hats daemon could not open a pipe to the specified command.

User Response: Verify that the command exists and is executable. If problem persists, record the above information and contact the IBM Support Center.

2523-260 **Incorrect or missing address for *interface-name*. Address: *actual-address*. Boot-time address: *boot-time-address*. FFDC id [*FFDC-error-identifier*].**

Explanation: The address on adapter *interface-name* is either missing or incorrect (outside the cluster configuration). Topology Services cannot monitor the adapter.

User Response: Verify and correct the adapter configuration.

2523-261 **Interface name missing in *machines.lst* for *address*. Interface name assigned: *interface-name*. FFDC id [*FFDC-error-identifier*].**

Explanation: The interface name for the given address is missing from the `machines.lst` file. In HACMP, the interface name is read from the HACMPadapter class. The interface name is added to HACMPadapter at Topology Synchronization time. A missing interface name in HACMPadapter indicates some failure to either obtain or update the interface name.

A possible cause is the adapter boot-time address not matching the HACMP configuration. Topology Services will attempt to recover from the problem by assigning an available interface name to the adapter. However, even if the operation succeeds, subsequent refresh operations (Topology DARE) may fail.

User Response: Verify that the adapter boot-time addresses match the HACMP configuration and then synchronize the cluster topology. If problem persists, record the above information and contact the IBM Support Center.

2523-262 **Internal Force Down error. Address: *address*. File: *source-file-name*. Line *line number*. Version *code version*.**

Explanation: Internal error in Force Down procedure.

User Response: Record the above information and contact the IBM Support Center.

2523-263 **Error in parsing a line in *machines.lst* file: *input-line*.**

Explanation: An error happened when parsing a line in the `machines.lst` configuration file. This is likely to be an internal error in either the Topology Services startup script or in HACMP.

User Response: Record the above information and contact the IBM Support Center.

2523-264 **Duplicated keyword in *machines.lst* file: *input-line*.**

Explanation: A duplicated keyword is found when parsing a line in the `machines.lst` configuration file. This is likely to be an internal error in either the Topology Services startup script or in HACMP.

User Response: Record the above information and contact the IBM Support Center.

2523-265 Cannot open *memory map file name* file. Memory locking functions may not work properly without access to *memory map file name*.

Explanation: Linux memory map file (*/proc/self/maps*) provides the information needed by the memory locking (pinning) functions. These functions may not work properly if the memory map file is not accessible.

The memory map file is not a real file, but a communication mechanism between applications and the kernel. It is a kernel option and can be turned off if customers recompile the kernel. This mechanism uses a file system-like form. Therefore, the */proc* virtual file system may not work properly if the */proc* mount point does not exist, or its entry is not added into */etc/fstab*.

User Response: Check if:

1. The */proc* mount point exists.
2. The file */etc/fstab* contains a correct entry for */proc*.
3. The CONFIG_PROC_FS option is turned on when recompiling the kernel.

2523-270 NIM (*interface-name*) process pid *pid* terminated. Signal number: *signal-number*. Exit value (if not signal): *exit-value*. FFDC id [*FFDC-error-identifier*].

Explanation: The NIM process died. The problem could be an internal error, a or a signal may have terminated a process.

User Response: The NIM should be restarted automatically by the daemon. If the new instances also terminate, the corresponding adapter will be considered down. Record the above information and contact the IBM Support Center.

2523-271 Error in netmon library (*interface-name*). Errno: *errno-value*. Error code: *error-code*. Function name: *function-name*. FFDC id [*FFDC-error-identifier*].

Explanation: There is an error in the netmon library, which is used by NIM to determine the status of a local adapter. This error will prevent the adapter state from being correctly determined.

User Response: Record the above information and contact the IBM Support Center.

2523-272 Error preparing packet for NIM process. Status: *status*. Errno: *errno*.

Explanation: Error when preparing a packet that is being sent to NIM process. The daemon may have run out of memory, or this is an internal error.

User Response: Record the above information and contact the IBM Support Center.

2523-273 Error sending message to NIM process. Status: *status*. Errno: *errno*.

Explanation: Error when sending a packet to NIM process via the UNIX-domain socket.

User Response: Record the above information and contact the IBM Support Center.

2523-274 Unexpected response from NIM (*interface-name*). Message *nim-message-number*.

Explanation: Received an unexpected response from the NIM process. Problem may exist is in the implementation of the NIM.

User Response: If the NIM was created by IBM, record the above information and contact the IBM Support Center.

2523-275 Failed to open NIM (*interface-name*). Reason: *reason-string - description*. *value-1*, *value-2*.

Explanation: Failed to open NIM connection to local adapter. Possible reasons: NIM process was blocked while responding to NIM open command, NIM failed to open non-IP device, NIM received an unexpected error code from a system call, Topology Services daemon failed to create UNIX-domain socket.

User Response: The open operation will be retried. If problem persists, record the above information and contact the IBM Support Center.

2523-276 NIM (*interface-name*) process PID *pid* taking too long to terminate.

Explanation: The NIM process is taking too long to terminate. The process might be blocked. Topology Services will declare the corresponding adapter dead.

User Response: Investigate why the process is blocked. Record the above information and contact the IBM Support Center.

2523-300 Refresh operation failed because of errors in machines.lst file.

Explanation: The refresh operation failed because there is a problem with the new configuration. More details are in the Topology Services log file. One possible cause for the problem is an IP address that appears to belong to two different adapters.

User Response: Correct the configuration problem and invoke the refresh again.

2523-301 Call to `dead_man_sw` in kernel extension failed, return code = `DMS` return code, `errno` = `errno`.

Explanation: Unable to initialize Dead Man Switch kernel extension. The Dead Man Switch timer will remain inactive.

User Response: See the Topology Services log file for more information and contact the IBM Support Center.

2523-380 Approximately `lines lost` write attempts failed on file `log file name` previously.

Explanation: A problem writing to the log file caused some lines to be lost.

User Response: Check if the disk is full or if the log file permissions have changed or if there is a lack of system resources.

2523-500 No extension specified.

Explanation: No parameter used in `haDMS_load`.

User Response: Routine `haDMS_load` is called internally by the startup script. Inform the IBM Support Center.

2523-501 Error `error code` from `sysconfig QUERY`.

Explanation: Error in the system call to check whether the kernel extension is loaded.

User Response: Inform the IBM Support Center if the Topology Services daemon fails to start.

2523-502 `sysconfig QUERYLOAD`.

Explanation: Error in the system call to check whether the kernel extension is loaded.

User Response: Inform the IBM Support Center if the Topology Services daemon fails to start.

2523-503 Could not find a loaded `module name`.

Explanation: The kernel extension is not currently loaded. This is not an indication of a problem, as the kernel extension will be loaded.

User Response: None.

2523-504 Error `error code` from `sysconfig LOAD`.

Explanation: Error in the system call to load the kernel extension.

User Response: Inform the IBM Support Center if the Topology Services daemon fails to start.

2523-505 `sysconfig KULOAD`

Explanation: Error in the system call to unload the kernel extension.

User Response: Inform the IBM Support Center if the Topology Services daemon fails to start.

2523-506 Unloaded kernel extension `kmid` = `module id`.

Explanation: The kernel extension has been updated.

User Response: None.

2523-507 `sysconfig SINGLELOAD`.

Explanation: Error in the system call to load the kernel extension.

User Response: Inform the IBM Support Center if the Topology Services daemon fails to start.

2523-510 No kernel module id specified.

Explanation: A parameter is missing in the call to `haDMS_unload`.

User Response: Provide the kernel module id to `haDMS_unload`.

2523-511 Error `error number` from `sysconfig`.

Explanation: Error in the system call to unload the kernel extension.

User Response: Inform the IBM Support Center if the Topology Services daemon will not start.

2523-512 Usage: `haDMS_stop DMS timer id`

Explanation: Program `haDMS_stop` is used incorrectly. An argument `DMS timer id` is expected. This program is called by the `topsvcs_down_script` and should not be invoked manually.

User Response: Inform the IBM Support Center.

2523-513 `haDMS_stop: timer id incorrect: timer id`.

Explanation: Program `haDMS_stop` is used incorrectly. The timer id passed to `haDMS_stop` must be between zero and `NumTimers`. This program is called by the `topsvcs_down_script` and should not be invoked manually.

User Response: Inform the IBM Support Center.

2523-514 **haDMS_stop: Dead Man Switch timer timer id disabled.**

Explanation: The given timer has been disabled by the haDMS_stop program. This is the expected behavior.

User Response: None.

2523-515 **haDMS_stop: must be root.**

Explanation: Program haDMS_stop is used incorrectly. This program is called by the topsvcs_down_script and should not be invoked manually. This program must be run under root authority.

User Response: Inform the IBM Support Center.

2523-516 **haDMS_stop: timer was inactive.**

Explanation: The Dead Man Switch timer was not enabled when haDMS_stop was invoked. This is the expected behavior if HACMP was started without the Dead Man Switch option.

User Response: Inform the IBM Support Center if the Dead Man Switch option was enabled.

2523-517 **DMS timer not active for realm (PSSP or HACMP/ES)**

Explanation: The Dead Man Switch timer is not active. This is the expected behavior if Topology Services for this realm was not started, or if the Dead Man Switch timer is not enabled.

User Response: None.

2523-518 **Incorrect data passed to dms_get_trigger_info() realm (PSSP or HACMP/ES)**

Explanation: This is an internal error. Incorrect data was passed to the kernel extension function **dms_get_trigger_info()** .

User Response: Contact the IBM Support Center.

2523-519 **No memory available for kernel buffers realm (PSSP or HACMP/ES)**

Explanation: No memory is available to allocate the kernel buffers needed to store the time-to-trigger information of the Dead Man Switch timer .

User Response: Contact the IBM Support Center.

2523-520 **Incorrect address passed to dms_get_trigger_info() realm (PSSP or HACMP/ES)**

Explanation: This is an internal error. An incorrect pointer address was passed to the **dms_get_trigger_info()** kernel extension function.

User Response: Contact the IBM Support Center.

2523-600 **Exit with return code: Error code**

Explanation: The error code that caused HATS to exit. HATS uses it as the exit code.

User Response: See the HATS script log for additional information.

2523-601 **Cannot initialize FFDC environment.**

Explanation: FFDC initialization error.

User Response: Check if FFDC environment is working.

2523-602 **Cannot find or validate the active partition name using spget_syspar.**

Explanation: The **spget_syspar** command cannot find SP partition name.

User Response: Check if running on an SP and spget_syspar is working correctly.

2523-603 **Cannot create directory directory**

Explanation: Cannot create specified directory.

User Response: Check if the specified directory is missing or is missing write permissions.

2523-604 **Unable to retrieve node number, exiting.**

Explanation: The program **node_number** returned an error code.

User Response: Tool **/usr/lpp/ssp/install/bin/node_number** cannot find the node number. Check to see if the **node_number** program works correctly.

2523-605 **Cannot find the address of the control workstation. SAVED_CW_IPADDRS: saved control workstation IP addresses netstat -in**

Explanation: Cannot find the control workstation IP address to place in the **machines.lst** file. The IP address must correspond to one Ethernet adapter on the control workstation that is on the same subnet as one of the nodes. Use the AIX command, **netstat -in** to verify the problem.

User Response: Verify if there is one Ethernet adapter on the control workstation that is on the same subnet as one of the nodes. Verify the output of the **ifconfig enX** command for all the Ethernet adapters on the control workstation. Verify that the subnet masks are consistent.

2523-606 Execution of hats_keys command failed.

Explanation: There was an error when issuing the **hats_keys** command.

User Response: Verify that DCE is installed, configured, and running correctly. Verify that SP security services is properly installed and configured. Contact the IBM Support Center if the problem persists.

2523-607 Partition is not in DCE-only mode.

Explanation: The active trusted services authentication method in the SP partition is not DCE-only.

User Response: Verify that this is desirable.

2523-608 Command lsauthpts failed.

Explanation: The exit value of the command **lsauthpts** indicates that the command was unsuccessful.

User Response: Verify that PSSP is installed. If the problem persists, contact the IBM Support Center.

2523-609 Unable to start the daemon after number retries. Quitting.

Explanation: Maximum retry count exceeded and still cannot start HATS.

User Response: There may be an SDR problem. Look at the error log and the HATS script log for details.

2523-610 Sleeping for sleep time in seconds seconds.

Explanation: This message is used with message 2523 - 623. This message (2523 - 610) informs users of the action that HATS script takes when message 2523 - 623 is issued.

User Response: Wait the amount of time specified. HATS will continue as soon as the condition specified in message 2523 - 623 has been resolved.

2523-611 Unable to retrieve machine list file. Quitting.

Explanation: Unable to retrieve machine list file.

User Response: There may be an SDR problem. Look at the error log and the HATS script log for details.

2523-612 Output from ifconfig network interface name has no netmask information.

Explanation: AIX command **ifconfig** does not give netmask information.

User Response: Check the Ethernet adapter configuration on the control workstation.

2523-620 Unable to retrieve SDR SDR class name class log file count.

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-621 Unable to retrieve name to retrieve from SDR SDR class name class [log file count].

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-622 Unable to retrieve SDR Adapter subnet attribute [log file count]

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-623 Unable to retrieve SDR file SDR file name [log file count]

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-624 Unable to create SDR file SDR file name.

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-625 Unable to replace SDR file SDR file name.

Explanation: It is possible that the SDR server is busy.

User Response: If the problem persists, check to see if there is an SDR problem.

2523-626 DMS kernel extension not loaded or has an older version. Loading DMS kernel extension.

Explanation: Kernel extension is either not currently loaded or has a version that is older than the version required by the Topology Services daemon. The kernel extension is being reloaded.

User Response: None.

2523-630 Cannot remove service entry from /etc/services.

Explanation: Error removing entry from */etc/services*.

User Response: Check if the file permission of */etc/services* permit write access.

2523-631 Cannot get system partition name.

Explanation: Command `/usr/lpp/ssp/bin/spget_syspar -n` does not return a valid SP partition name.

User Response: Check that PSSP is installed correctly.

2523-632 Cannot get system partition IP address.

Explanation: Command `/usr/lpp/ssp/bin/spget_syspar -n` does not return a valid IP address.

User Response: Check that PSSP is installed correctly.

2523-633 Cannot get node number.

Explanation: Command `/usr/lpp/ssp/bin/node_number` does not return a valid node number.

User Response: Check that PSSP is installed correctly.

2523-634 Missing command flag.

Explanation: User did not specify any command line option. A command line option is necessary.

User Response: Check the usage message to find out the supported options.

2523-635 Only one command flag permitted.

Explanation: The user specified more than one command line option. Only one command line option is permitted.

User Response: Check the usage message to find out the supported options.

2523-636 The *subsystem name* subsystem must be stopped before remaking it.

Explanation: The daemon is running. You must stop it before remaking it.

User Response: Stop the HATS daemon by issuing the commands `hatsctrl -k` and `hatsctrl -a`.

2523-637 Port number not in SDR.

Explanation: The port number used by the HATS daemon must be registered in the SDR.

User Response: Issue the command `hatsctrl -a`.

2523-638 Cannot set port number into /etc/services.

Explanation: Error setting port number in */etc/services*.

User Response: Check to see if the permissions in */etc/services* allow you to write to the file.

2523-639 Unable to retrieve *retrieve data* from SDR.

Explanation: SDR is busy and cannot supply the requested information.

User Response: Try again later.

2523-640 *daemon path/daemon file name* is not executable.

Explanation: The daemon must be an executable.

User Response: Check if the file permission of the HATS daemon is executable.

2523-641 Could not add *subsystem name* subsystem to SRC.

Explanation: The SDR did not allow the subsystem to be written.

User Response: Check if the SDR is busy and try again.

2523-642 Could not obtain HACWS status.

Explanation: The command `/bin/lshacws` does not return a valid HACWS status.

User Response: Check that PSSP is correctly configured.

2523-643 Could not add *subsystem name* to /etc/inittab.

Explanation: Error adding an entry in */etc/inittab*.

User Response: Check to see if the file permissions

of `/etc/inittab` allow write access.

2523-644 **Cannot verify registration of service name *service name* protocol UDP, port *port number*.**

Explanation: Error when verifying the service name that was added previously in `/etc/services` file.

User Response: Check if `/etc/services` can be read.

2523-645 **Cannot get DCE credentials to update SDR.**

Explanation: The command `dsrvtgt` failed to get DCE credential for principal `ssp/spbgrout`. The credential cache file is in `/opt/dcelocal/var/security/creds`.

User Response: Check that DCE is properly installed and configured.

2523-646 **Refresh operation failed. Details are in the AIX error log and in the hats script log (*/var/ha/log/hats.partition name*).**

Explanation: Command `hatsctrl -r` was not successful because of a problem while running the hats script.

User Response: You can find more information about the problem in the AIX error log and in the hats script log at `/var/ha/log/hats.partition name`.

2523-650 **Unknown parameter *parameter*.**

Explanation: An unsupported option is specified.

User Response: Type `topsvcs -h` to find out the correct syntax.

2523-651 **Cluster designator not valid : *designator*.**

Explanation: A valid designator is required for option `-cluster`.

User Response: Type `topsvcs -h` to find out the correct syntax.

2523-655 **Unable to execute the `odmget HACMPtopsvcs` command.**

Explanation: Cannot execute command `odmget HACMPtopsvcs`.

User Response: Check if `/bin/odmget` exists and is executable. Check if the `HACMPtopsvcs` class is present in the ODM.

2523-656 **Unable to get the ODM *class class*.**

Explanation: Cannot get ODM class.

User Response: Check if `/bin/odmget` exists and is executable. Check if the `HACMPtopsvcs` class is present in the ODM.

2523-660 **Unable to execute HACMP utility *utility name*.**

Explanation: The HACMP utility *utility name* is missing or is not executable.

User Response: Check `/usr/sbin/cluster/utilities/` and `/usr/es/sbin/cluster/utilities/` to see if the utility program is there and is executable.

2523-661 **File *utility name* does not exist or is not executable.**

Explanation: Utility *utility name* is missing or is not executable.

User Response: Check `/usr/sbin/cluster/utilities/` and `/usr/es/sbin/cluster/utilities/` to see if the utility program is there and is executable.

2523-662 **Error occurred while creating the machine list file.**

Explanation: An error occurred when creating the machine list file.

User Response: This message is issued at the end of the creation of the machine file, if there is an error. This message is used in conjunction with other detailed messages. See the message issued before this message to find the root cause of the problem.

2523-663 **Unable to open file *filename*.**

Explanation: Cannot open a file.

User Response: Check if the file to be opened exists and can be read.

2523-664 **Node is not in HACMP Mode.**

Explanation: The HACMP command `clisif` is missing or is not executable.

User Response: Check if HACMP is correctly installed.

2523-665 **Number of networks exceeds limit. Network *network_name* ignored.**

Explanation: Number of offsets in machines list exceeds maximum allowed.

User Response: Reduce number of networks in system.

2523-670 The installed SP_Switch2 has no css1 interfaces.

Explanation: The installed SP_Switch2 has a two plane configuration, but it has no css1 interfaces.

User Response: Check that the switch involving css1 is correctly configured.

2523-671 There are *number of different switch types* types of switches installed on the system.

Explanation: There are more than one types of switches present in the system.

User Response: Check that the switch is correctly configured.

2523-700 Cannot discard stale messages: *error-string*.

Explanation: Cannot instruct Topology Services daemon to discard incoming stale messages.

User Response: Verify if Topology Services daemon is running.

2523-701 Cannot accept stale messages: *error-string*.

Explanation: Cannot instruct Topology Services daemon to accept incoming stale messages.

User Response: Verify that Topology Services is running.

2523-705 SP Security services routine *spsec routine failed. spsec error code: spsec error code*DCE error code: *DCE error code*, GSSAPI major error code: *GSSAPI major error code*, GSSAPI minor error code: *GSSAPI minor error code*, system call errno: *system call errno*, DCE routine: *DCE routine*, spsec error text: *spsec error text*.

Explanation: The hats_key command could not verify local security configuration because of the following reasons:

- SP security services is not installed or configured properly.
- DCE is not installed or configured properly.

User Response: Inform the system administrator immediately. If the problem persists, contact the IBM Support Center.

2523-706 Failed to load SP security services library /usr/lib/libspsec.a.

Explanation: The SP security services is not installed or configured properly.

User Response: Inform the system administrator immediately. If the problem persists, contact the IBM Support Center.

2523-721 Option *option* is not a valid option.

Explanation: An invalid option was entered.

User Response: Check the man page or online help for the correct syntax.

2523-722 Option *option* cannot be reused.

Explanation: The same option appears more than once.

User Response: The same option can only be used once. Check the man page or online help for the correct syntax.

2523-723 Option *option* cannot coexist with options -d and -h.

Explanation: Some options are mutually exclusive.

User Response: Check the man page or online help for the correct command syntax.

2523-724 Option -d cannot coexist with options -f, -s, -p, -l, -m, and -h.

Explanation: Some options are mutually exclusive.

User Response: Check the man page or online help for the correct command syntax.

2523-725 Option -h cannot coexist with options -f, -s, -p, -l, -m and -d.

Explanation: Some options are mutually exclusive.

User Response: Check the man page or the online help for the correct command syntax.

2523-726 Options -f, -s, -p, -l, and -m need an extra option.

Explanation: Some options require a suboption.

User Response: Check the man page or the online help for the correct command syntax.

2523-727 *invalid option is not a valid object. Valid objects are None, Text, Data, Proc, and default.*

Explanation: Only some valid suboptions are allowed.

User Response: Valid suboptions are shown in the message itself. For more information, check the man page or online help for the correct syntax of option **-m**.

2523-728 *invalid number is not a valid decimal number.*

Explanation: A decimal number is expected for some suboptions.

User Response: Check to see if the number contains non-numeric characters.

2523-729 **A valid decimal number is expected.**

Explanation: A decimal number is expected for some suboptions.

User Response: Check to see if the number contains non-numeric characters.

2523-730 **Default frequency value is redefined.**

Explanation: Default frequency value cannot be set twice in one **hatstune** command.

User Response: Check the man page or the online help for the correct syntax for option **-f**.

2523-731 **Default sensitivity value is redefined.**

Explanation: Default sensitivity value cannot be set twice in one **hatstune** command.

User Response: Check the man page or the online help for correct syntax of option **-s**.

2523-732 **Frequency value of network *network name* is redefined.**

Explanation: The frequency value of individual network cannot be set twice in one **hatstune** command.

User Response: Check the man page or the online help for the correct syntax of option **-f**.

2523-733 **Sensitivity value of network *network name* is redefined.**

Explanation: The sensitivity value of an individual network cannot be set twice in one **hatstune** command.

User Response: Check the man page or the online help for the correct command syntax of option **-s**.

2523-734 **-r option requires root privilege.**

Explanation: Refresh (**-r** option) calls **hatsctrl -r**. It requires root authority.

User Response: Login as root to use the **-r** option.

2523-740 **Frequency value *frequency value* is too small. Valid range is [*lower bound/upper bound*].**

Explanation: The given frequency is too small.

User Response: The message itself shows the valid range. For more information, check the man page or the online help for the correct syntax of option **-f**.

2523-741 **Frequency value *frequency value* is too large. Valid range is [*upper bound/lower bound*].**

Explanation: The given frequency is too large.

User Response: The message itself shows the valid range. For more information, check the man page or the online help for the correct syntax for option **-f**.

2523-742 **Sensitivity value *sensitivity value* is too small. Valid range is [*upper bound/lower bound*].**

Explanation: The given sensitivity value is too small.

User Response: The message itself shows the valid range. For more information, check the man page or the online help for the correct syntax of option **-s**.

2523-743 **Sensitivity value *sensitivity value* is too large. Valid range is [*upper bound/lower bound*].**

Explanation: The given sensitivity value is too small.

User Response: The message itself shows the valid range. For more information, check the man page or the online help for the correct syntax of option **-s**.

2523-744 **Priority value *priority value* is too small. Valid range is [*upper bound/lower bound*].**

Explanation: The given priority value is too small.

User Response: The message itself shows the valid range. For more information, check the man page or the online help for the correct syntax for option **-p**.

2523-745 **Priority value *priority value* is too large. Valid range is [*upper bound/lower bound*].**

Explanation: The given priority value is too large.

User Response: The message itself shows the valid

range. For more information, check the man page or the online help for correct syntax of option **-p**.

2523-746 **Maximum number of lines in the log files** *maximum number of lines in the log file value is too small. Valid range is [lower bound/upper bound].*

Explanation: The given number of lines in the log file is too small.

User Response: The message itself shows valid range. For more information, check the man page or the online help for the correct syntax for option **-l**.

2523-747 **Maximum number of lines in the log files** *maximum number lines in the log files value is too large. Valid range is [lower bound/upper bound].*

Explanation: The given maximum number of lines in the log files is too large.

User Response: The message itself shows the valid range. For more information, see the man page or the online help for the correct syntax for option **-l**.

2523-748 **Network name** *network name is not defined.*

Explanation: User tried to tune a HATS tunable value of an unknown network.

User Response: Type **hatstune -v** to show all the HATS tunable values.

2523-749 **Cannot get DCE credentials to update SDR.** *rc=return code from dsrvtgt.*

Explanation: The command, **dsrvtgt**, was not successful in getting DCE credential for principal **ssp/spbgroot**. The credential cache file is in **/opt/dcelocal/var/security/creds/**.

User Response: Check if DCE is properly installed and configured.

2523-750 **PSSP command** *missing PSSP command is missing. Check if PSSP is installed properly.*

Explanation: PSSP is required for HATS to run in the SP realm.

User Response: Make sure that PSSP is installed correctly.

2523-751 **SDR subsystem is not working properly.**

Explanation: PSSP SDR subsystem is required for HATS to run in the SP realm.

User Response: Make sure that PSSP is installed correctly.

2523-752 **Error changing attribute values of SDR class TS_Config.**

Explanation: SDR access problem.

User Response: Check if the SDR is running by issuing **lssrc -g sdr**. Check if the user has root privilege. The SDR may also be busy. If so, wait a few minutes and retry.

2523-753 **Error changing attribute values of SDR class Network for** *network name.*

Explanation: SDR access problem.

User Response: Check if the SDR is running by issuing the **lssrc -g sdr** command. Check if the user has root authority. The SDR may also be busy. If so, wait a few minutes and retry.

2523-754 **Error retrieving SDR class TS_Config.**

Explanation: SDR access problem.

User Response: Check if the SDR is running by issuing **lssrc -g sdr**. The SDR or network may be busy. If so, wait for a few minutes and retry.

2523-755 **HATS tunable values can only be changed on the control workstation.**

Explanation: HATS tunable values can be changed only on the control workstation.

User Response: Use the control workstation to change the HATS tunable values.

Chapter 34. 2525 - RS/6000 Cluster Technology common messages

2525-000 Cannot display message from script: missing arguments (*argument count*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with too few arguments. This indicates an error in the script.

User Response: Record the above information and the name of the program you were executing at the time this error was displayed. Contact the IBM Support Center.

2525-001 Cannot display message from script: set name too long (*set name*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with a set name that was too long. This indicates an error in the script.

User Response: Record the above information and the name of the program you were executing at the time this error was displayed. Contact the IBM Support Center.

2525-002 Cannot display message from script: catalog name too long (*catalog name*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with a catalog name that was too long. This indicates an error in the script.

User Response: Record the above information and the name of the program you were executing at the time this error was displayed. Contact the IBM Support Center.

2525-003 Cannot display message from script: message name too long (*message name*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with a message name that was too long. This indicates an error in the script.

User Response: Record the above information and the name of the program you were executing at the time this error was displayed. Contact the IBM Support Center.

2525-004 Cannot display message from script: improperly formed catalog name (*catalog name*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with a catalog name that was not in correct format. This indicates an error in the script.

User Response: Record the above information and the name of the program you were executing at the time this error was displayed. Contact the IBM Support Center.

2525-005 Cannot display message from script: cannot open message map file (*message map file name*).

Explanation: The specified program is used by scripts to display informational or error messages. The program could not open the specified message map file.

User Response: Verify that the message map file is present and readable. If the file is not present, reinstall the LP that contains the program you were running at the time this error was displayed. If this does not resolve the problem, reinstall prerequisite LPs.

If the message map file is present but not readable, use the **chmod** command to make it readable. If the problem persists, record the above information and contact the IBM Support Center.

2525-006 Cannot display message from script: error in message map file (*message map file name at line line number*).

Explanation: The specified program is used by scripts to display informational or error messages. The program found an error in the specified message map file.

User Response: Record the name of the program you were executing at the time this error was displayed, the name of the message map file and the line number in error. Contact the IBM Support Center.

2525-007 Cannot display message from script: cannot find message name (*message name*).

Explanation: The specified program is used by scripts to display informational or error messages. A script has called the program with a message name that does not exist in the associated map file. This indicates an error in the script.

User Response: Record the above information and the name of the program that you were executing at the

time this error was displayed. Contact the IBM Support Center.

Chapter 35. 2530 - Node grouping command line messages

2530-001 Encountered a problem while assessing the SDR.

Explanation: Could not connect to the SDR.

User Response: Contact the system administrator.

2530-002 Insufficient operands supplied.

Explanation: Command requires more operands than were supplied.

User Response: Check the syntax and enter the command again.

2530-003 Must have SDR write authorization to create or modify a node group.

Explanation: The user must be authorized to write to the SDR to perform this function.

User Response: Obtain the appropriate security credentials to write to the SDR.

2530-004 Could not create Node Group *node_group*.

Explanation: The node group was not created.

User Response: See the previous message for an explanation of the problem. Check the error stack for more detailed information.

2530-005 Node group name must be supplied.

Explanation: A node group must be supplied to this command.

User Response: Check the syntax and enter the command again.

2530-006 SDR write problem.

Explanation: An error was encountered while trying to write to the SDR.

User Response: Check the error stack for further information, or contact the system administrator.

2530-007 Node Group *destination_node_group* does not exist.

Explanation: The supplied node group could not be found.

User Response: Run the command **nglist** to identify the node groups that have been defined.

2530-009 Adding to node group *destination_node_group* was not successful.

Explanation: The supplied nodes and node groups were not added.

User Response: Check the previous message for an explanation of the problem. Also check the error stack for more detailed information.

2530-010 Node group *destination_node_group* was not created. *Argument is not a valid argument.*

Explanation: The node group was not created.

User Response: Check the syntax and enter the command again.

2530-011 Too many operands supplied.

Explanation: Too many operands were supplied to the command.

User Response: Check the syntax and enter the command again.

2530-012 Command was not successful.

Explanation: The command did not complete successfully.

User Response: Check the previous message for an explanation of the problem. Also check the error stack for more detailed information.

2530-051 Could not delete Node Group *node_group_name*.

Explanation: The node group was not successfully deleted.

User Response: Check the previous message for an explanation of the problem. Also check the error stack for more detailed information.

2530-061 Removing from node group *node_group_name* was not successful.

Explanation: The members were not successfully removed from the node group.

User Response: Check the previous message for an explanation of the problem. Also check the error stack for more detailed information.

2530-101 Only one node group may be created.

Explanation: The command was not entered correctly.

User Response: Check the syntax and enter the command again.

2530-102 Node group *destination_node_group* was not created. Node range provided was not valid.

Explanation: No nodes were found within the supplied node range.

User Response: Enter the command again with the correct node range. You may want to run **splstdata** to identify which nodes are defined.

2530-103 Node group *destination_node_group* was not created. Could not find hostname.

Explanation: The supplied hostname was not found. Currently, a node group only contains nodes within the system partition, or within the SP system if the **-G** flag is supplied.

User Response: Enter the command again.

2530-104 Node group *destination_node_group* was not created. Frame range provided was not valid.

Explanation: No nodes were found within the supplied frame range.

User Response: Enter the command again with the correct frame range. You may want to run **splstdata** to identify which nodes and frames are defined.

Chapter 36. 2531 - System partitioning aid messages

2531-001 Cannot open or access file *file_name*

Explanation: File does not exist or does not have proper permissions.

User Response: Verify the file exists and has the proper permissions.

2531-002 Cannot access working directory
full_path_to_working_directory.

Explanation: Directory does not exist or does not have proper permissions.

User Response: Verify the directory exists and has the proper permissions.

2531-003 Nodelist for system partition
partition_name has fewer nodes than
the number of nodes specified for the
partition.

Explanation: Error in the input file.

User Response: Verify that the nodelist for partition *partition_name* contains the same number of nodes as the number of nodes specified for the partition.

2531-004 Nodelist for system partition
partition_name has more nodes than the
number of nodes specified for the
partition.

Explanation: Error in the input file.

User Response: Verify that the nodelist for partition *partition_name* contains the same number of nodes as the number of nodes specified for the partition.

2531-005 Input file has more nodelists than the
number of system partitions specified.

Explanation: Error in the input file.

User Response: Verify that the input file has the same number of nodelists as the number of partitions specified.

2531-006 A range specified under system
partition *partition_name* is incomplete
or is not valid.

Explanation: Input file error. Nodelist contains a range that is either incomplete or not valid.

User Response: Provide the correct range for node numbers or switch port numbers in the input file.

2531-007 Input file does not contain a nodelist
for each system partition specified.

Explanation: Error in the input file.

User Response: Verify that the input file has the same number of nodelists as the number of partitions specified.

2531-008 Node number *node_number* not found
in the SDR.

Explanation: The node number is not found in the SDR.

User Response: Verify the input file contains valid node numbers.

2531-009 Cannot access or create
current_directory/next_directory.

Explanation: The current directory (in the target directory path) does not have the right access permission.

User Response: Provide a path to the desired target directory, which has the correct access permission.

2531-010 The layout directory
layout_directory_name already exists.
Provide a different location.

Explanation: The directory where the layout is saved already exists.

User Response: Provide a new layout directory name for **sysparaid** to create and save the newly generated layout.

2531-011 You do not have permission to save
the layout in
base_dir_name/sysdir_name/
config_name/layout.layout_name.

Explanation: Path to the desired target directory does not have the right access permission.

User Response: Provide a path to the desired target directory, which has the correct access permission.

2531-012 Layout not saved. A layout can be
saved in the system partition directory
tree only when the **-s** option is invoked
with a file name extension for layout
directory.

Explanation: A layout cannot be saved in the system partition directory tree if a fullpath starting with **/spdata** is given with **-s** option.

User Response: Invoke the **-s** option with a file name extension for the layout.

2531-013 **The layout directory**
*base_dir_name/sysdir_name/
config_name/layout. layout_name*
already exists. Provide a different location.

Explanation: The directory under which the layout is to be saved already exists.

User Response: Provide a new layout directory name for sysparaid to create and save the newly generated layout.

2531-014 **Cannot remove old files from the working directory** *working_directory.*

Explanation: The working directory does not have write permission.

User Response: Provide a working directory that you have write permission to.

2531-015 **System Partition** *partition_name* **has been defined more than once in the input file.**

Explanation: Error in the input file.

User Response: Verify that a partition is defined only once in the input, that is, make sure that a partition name is not repeated.

2531-016 **The total number of nodes in the nodelists does not match the number of nodes in the system.**

Explanation: Error in the input file.

User Response: Verify that the total number of nodes in the nodelists is equal to the number of nodes specified.

2531-017 **The number of nodes in system partition** *partition_name* **not specified.**

Explanation: Error in the input file.

User Response: Verify that the number of nodes in each system partition is specified before providing the nodelist for the partition.

2531-018 **The input file** *file_name* **has not been formatted correctly.**

Explanation: The input file format is wrong or a wrong file name has been provided.

User Response: Verify the specified input file has the same format as the template file `/spdata/sys1/syspar_configs/bin/infile.template`.

2531-019 **Cannot save the layout. There is not enough space in the file system.**

Explanation: The file system is full.

User Response: Create space in the file system.

2531-101 **Input Error. The switch port number** *switch_port_number* **is above the system limit.**

Explanation: Input file contains a switch port number *switch_port_number* that is above the system limit.

User Response: Verify that the input file contains switch port numbers within the correct range.

2531-102 **Input Error. The node or the switch chip linked to switch port number** *switch_port_number* **has already been assigned to system partitions** *partition_name* **and** *partition_name.*

Explanation: The same switch node or chip is assigned to two different partitions.

User Response: Verify that nodes or switch ports linked to the same chip are assigned to only one system partition in the input file.

2531-103 **Violation of Rule 1: A switch chip cannot be part of more than one system partition. Switch chips connected to switch port number** *switch_port_number*, **in partition** *partition_name*, **has already been assigned to partition** *partition_name.*

Explanation: Two nodes or switch ports connected to the same switch chip have been placed in two different system partitions.

User Response: Modify the input file so that all nodes or switch ports connected to the same switch chip are in the same partition.

2531-104 **Violation of Rule 2: No node switch board can be part of more than two multi-chip partitions. No link switch chips are available on board** *switch_board_id* **for system partition** *partition_name.*

Explanation: No link switch chips are available for a system partition, because all link switch chips have been assigned to other partitions.

User Response: Modify the input requirement so that no node switch board is part of more than two multi-chip system partitions.

2531-105 **Needed link switch chips 0 and 1 are not available on board** *switch_board_id* **for partition** *partition_name*.

Explanation: Link switch chips 0 and 1 on some node switch boards have been assigned to this system partition, but are not available on one of the switch boards.

User Response: Try a different system partition configuration.

2531-106 **Needed link switch chips 2 and 3 are not available on board** *switch_board_id* **for partition** *partition_name*.

Explanation: Link switch chips 2 and 3 on some node switch boards have been assigned to this system partition, but are not available on one of the switch boards.

User Response: Try a different system partition configuration.

2531-107 **No switch chips are available on intermediate switch boards for partition** *partition_name*.

Explanation: More interboard system partitions have been specified than the partitioning algorithm can accommodate.

User Response: Reduce the number of multiboard system partitions specified. View the current chip allocation saved in **spa.snapshot**.

2531-108 **Cannot access SDR class:** *SDR class attribute: attribute*.

Explanation: Error accessing the SDR.

User Response: Check the appropriate class using the **SDRGetObjects** command.

2531-109 **Partitioning is not allowed on this system.**

Explanation: The attribute **IsPartitionable** in the class **SP** is set to "false".

User Response: The value of **Ispartitionable** is set during system configuration. If the value is correct, the command issued, and system partitioning, are not allowed.

Chapter 37. 2532 - Problem Management messages

2532-000 SMUX API error. **Function=***function*;
smux_error=*error*; **smux_info=***info*.

Explanation: The SP SNMP proxy subagent called the specified SMUX function, which returned the indicated error.

User Response: The SP SNMP proxy subagent will attempt to reconnect to the AIX SNMP agent every 5 seconds. Ensure that `snmpd` is active. If the problem persists, save the message data and contact the IBM support center.

2532-001 SP SNMP proxy agent terminating due to an SDR error. **Function=***function*;
errno=*error*.

Explanation: The SP SNMP proxy subagent issued a System Data Repository (SDR) function call and received the indicated error return code.

User Response: Ensure that the SDR is active. If the problem persists, save the message data and contact the IBM support center.

2532-002 EM API error. **Function=***function*;
partition=*partition*; **EM_Errmsg=***error*.

Explanation: The SP SNMP proxy subagent issued an Event Management (EM) function call and received the indicated error message. The EM connection is closed and an attempt to reopen the EM connection is attempted periodically.

User Response: Ensure that the EM is active. If the problem persists, save the message data and contact the IBM support center.

2532-003 Invalid switch value ignored.
Switch=*switch*; **invalid value=***value*;
value used=*value_used*.

Explanation: The SP SNMP proxy subagent determined that a switch, which had a value that was not valid, was specified when starting the SP SNMP proxy subagent.

User Response: The indicated value is used for the switch.

2532-004 Invalid switch ignored. **Switch=***switch*.

Explanation: The SP SNMP proxy subagent determined that an switch, which was not valid, was specified when starting the SP SNMP proxy subagent.

User Response: The switch is ignored.

2532-005 Invalid parameter ignored; only switches may be specified.
Parameter=*parameter*.

Explanation: The SP SNMP proxy subagent determined that a parameter other than a switch was specified when starting the SP SNMP proxy subagent.

User Response: The parameter is ignored.

2532-006 SMUX function error.
Function=*function*; **object=***object*;
result=*result*.

Explanation: The SP SNMP proxy subagent called the indicated SMUX function, which returned an error code with the indicated result.

User Response: Save message data and contact the IBM Support Center.

2532-007 Error starting the SP SNMP proxy subagent. **Msg=***message*.

Explanation: The SP SNMP proxy subagent invoked daemon initialization logic, `dae_init()`, which returned the indicated error message. Start processing for the SP SNMP proxy agent ended.

User Response: Only a single instance of the daemon may be running on a node. Correct the error sequence indicated in the message and start the `sp_configd` daemon again, if appropriate.

2532-008 Unable to create FIFO *fifo*. The SP SNMP proxy agent is terminating.
Errno=*errno*; **SysMsg=***system_message*.

Explanation: The SP SNMP proxy subagent was unable to create the indicated FIFO. The `mknod()` function returned the `errno` value.

User Response: Correct the problem indicated by the `mknod()` function and start the SP SNMP proxy subagent.

2532-009 `popen()` failure. The SP SNMP proxy agent is terminating.
Command=*command*.

Explanation: The SP SNMP proxy subagent called the AIX `popen()` function to issue the specified command in order to obtain the node number of the host on which the daemon is running.

User Response: Ensure that the specified command is available. If the problem persists, save the message data and contact the IBM Support Center.

2532-010 **node_number command failure. The SP SNMP proxy agent is terminating.**

Explanation: The SP SNMP proxy subagent called the AIX **popen()** function to issue the specified command in order to obtain the node number of the host on which the daemon is running. The **node_number** command did not return a numeric value.

User Response: Ensure that the specified command is working correctly. If the problem persists, save the message data and contact the IBM Support Center.

2532-011 **SDR error. Function=function; errno=errno.**

Explanation: The SP SNMP proxy subagent called the indicated function, which returned a nonzero return code.

User Response: Ensure that the SDR is active. If the problem persists, save the message data and contact the IBM Support Center.

2532-012 **Unable to open FIFO fifo for writing. The SP SNMP proxy agent is terminating. Errno=errno.**

Explanation: The SP SNMP proxy subagent was unable to open the indicated FIFO. The AIX **open()** function returned the specified error number.

User Response: Check the attribute on the specified file and start the SP SNMP proxy subagent. If the problem persists, save the message data and contact the IBM Support Center.

2532-013 **Unable to open FIFO fifo for reading. The SP SNMP proxy agent is terminating. Errno=errno.**

Explanation: The SP SNMP proxy subagent was unable to open the indicated FIFO. The AIX **open()** function returned the specified error number.

User Response: Check the attribute on the specified file and start the SP SNMP proxy subagent again. If the problem persists, save the message data and contact the IBM Support Center.

2532-014 **There is no SMUX entry for sp_configd in the file file. The SP SNMP proxy agent is terminating.**

Explanation: The SP SNMP proxy subagent issued a **getsmuxEntrybyname()** function call, which returned an error.

User Response: Ensure that there is a SMUX entry for the **sp_configd** daemon in the specified file and start the SP SNMP proxy subagent again. If the problem

persists, save the message data and contact the IBM Support Center.

2532-015 **There are no MIB definitions in the file file.**

Explanation: The SP SNMP proxy subagent issued a **readobjects()** function call, which returned an error.

User Response: Ensure that the specified file exists and start the SP SNMP proxy subagent again. If the problem persists, save the message data and contact the IBM Support Center.

2532-016 **There is no MIB definition for the object object in the file file. The SP SNMP proxy agent is terminating.**

Explanation: The SP SNMP proxy subagent, issued a **text2obj()** function call, which returned an error.

User Response: Ensure that the specified object is defined in the specified file and start the SP SNMP proxy subagent again. If problem persists, save the message data and contact the IBM Support Center.

2532-017 **Could not allocate memory. The SP SNMP proxy agent is terminating. Request=request; bytes requested=bytes_requested.**

Explanation: The SP SNMP proxy subagent issued the specified request to allocate storage, which returned an error. Memory could not be allocated for the named data structure.

User Response: Save the message data and contact the IBM Support Center.

2532-018 **System call error. The SP SNMP proxy agent is terminating. Errno=errno; SystemMsg=system_message.**

Explanation: This message indicates a problem with a kernel system interface.

User Response: Save the message data and contact the IBM Support Center.

2532-019 **System call error. SNMP request response terminated. Errno=errno; SystemMsg=system_message.**

Explanation: This message indicates a problem with a kernel system interface.

User Response: Save the message data and contact the IBM Support Center.

2532-020 SMUX MIB object registration failure.
Object=*object*.

Explanation: The SP SNMP proxy subagent received a failure response from the AIX snmpd daemon, resulting from a request to register the MIB variable specified in the Object. Objects maintained by the SP agent underneath this object in the ibmSP miib are unavailable.

User Response: Check the **/etc/mib.defs** file to make sure the ibmSPMIB is defined there. If it is not, **cat** the **/usr/lpp/ssp/config/snmp_proxy/ibmSPMIB.defs** file to the end of the **/etc/mib.defs** file. Save the message data and contact the IBM Support Center.

Chapter 38. 2536 - SNMP Manager for Dependent Nodes messages

2536-000 **Cannot write to log file** *trace file name, error indication.*

Explanation: The SNMP Manager for Dependent Nodes, spmgrd, was unable to record an entry in its trace file. spmgrd processing continues.

User Response: Correct the indicated error condition.

2536-001 *file name* **cannot be opened for tracing.**

Explanation: An open for the indicated trace file failed.

User Response: The trace file name was probably misspelled. Correct the trace file name and restart the spmgr subsystem.

2536-003 **spmgrd terminated - reason for termination**

Explanation: The spmgrd daemon terminated as a result of the failure.

User Response: Correct the failure and restart the spmgr subsystem

2536-004 **Current system max limit on the trace file** *current max size, is less than the requested max size request max size.*

Explanation: The current maximum size is used as the file size limit.

User Response: Either reenter a new maximum file size or do nothing and accept the maximum file size stated in the error message.

2536-005 **Authentication failure notification received from host** *hostname*

Explanation: An SNMP message was received by the SNMP agent running on the specified host which had a community name within it which did not match the community name the agent associates with the sending host.

User Response: Verify that the community name sent by the SNMP agent running on this host is the same as the community name specified for this host on the host on which the SNMP agent is running

2536-006 **spmgrd terminated: it only runs on the Control Workstation**

Explanation: The spmgrd daemon only runs on the control workstation.

User Response: The ssp.spmgr file set should only

be installed on the SP control workstation. This condition should not occur. Contact IBM service for more information.

2536-007 **An authentication failure notification was received from an SNMP Agent running on host** *hostname* **which supports Dependent Nodes.**

Explanation: An SNMP message was received by the SNMP agent running on the specified host which had a community name within it which did not match the community name the agent associates with the sending host.

User Response: Verify that the community name sent by the SNMP agent running on this host is the same as the community name specified for this host on the host on which the SNMP agent is running.

2536-008 **The following trap from agent** *object identifier, running on hostname* **hostname contains an unknown OID in its variable binding:**

Explanation: Ticks: *time ticks value from the trap message*

Typ: *generic trap type*

Object *unknown object identifier*

The SNMP agent for dependent nodes sent a trap containing an erroneous variable binding.

User Response: Consult the vendor supplying the SNMP agent.

2536-009 **The following trap from agent** *object identifier, running on hostname* **hostname contains the wrong object in its variable binding.**

Explanation: Ticks: *time ticks value from the trap message*

Typ: *generic trap type*

Object *unknown object identifier*

The SNMP agent for dependent nodes sent a trap containing an erroneous variable binding.

User Response: Consult the vendor supplying the SNMP agent

2536-010 **gethostbyaddr() failed for ipaddr IP address with return code failure code: failure description.**

Explanation: The message from the agent is ignored.

User Response: Correct the failure cause.

2536-011 **The following trap from agent object identifier running on hostname hostname contains an invalid instance id:**

Explanation: Ticks: *time ticks value from the trap message*

Typ: *generic trap type and specific trap type*

Object *object identifier*

The SNMP agent for dependent nodes sent a trap containing an instance id that did not identify an extension node (i.e. dependent node).

User Response: Consult the vendor supplying the SNMP agent.

2536-012 **The following trap from agent object identifier, running on hostname hostname contains an invalid value.**

Explanation: Ticks: *time ticks value from the trap message*

Typ: *generic trap type and specific trap type*

Object *object identifier*

Value: *Invalid value*

The SNMP agent for dependent nodes sent a trap containing an invalid value.

User Response: The trap is ignored; consult the vendor supplying the SNMP agent.

2536-013 **Trap from host hostname contains an invalid value.**

Explanation: The SNMP agent for dependent nodes sent a trap containing an invalid value.

User Response: The trap is ignored; to capture further information about the trap, run the **spmgrd** with long tracing enabled. Consult the vendor supplying the SNMP agent.

2536-014 **Trap from host hostname contains an invalid instance id.**

Explanation: The SNMP agent for dependent nodes sent a trap containing an invalid instance identifier.

User Response: The trap is ignored; to capture further information about the trap, run the **spmgrd** with

long tracing enabled. Consult the vendor supplying the SNMP agent.

2536-015 **Trap from host hostname contains erroneous variable binding.**

Explanation: The SNMP agent for dependent nodes sent a trap containing the wrong object instance in its variable binding.

User Response: The trap is ignored; to capture further information about the trap, run the **spmgrd** with long tracing enabled. Consult the vendor supplying the SNMP agent.

2536-016 **Trap from host hostname contains unknown OID in its variable binding.**

Explanation: The SNMP agent for dependent nodes sent a trap containing an unknown OID in its variable binding.

User Response: The trap is ignored; to capture further information about the trap, run the **spmgrd** with long tracing enabled. Consult the vendor supplying the SNMP agent.

Chapter 39. 2543 - Switch admin daemon (cssadm daemon) messages

2543-001 **Switch *switch number* needs clocking. All *switch_responds=0* but there are nodes up.**

Explanation: On a switch in the system, all the nodes were off switch responds but at least one of the nodes was up on host responds. This indicates the possible need for clocking on that switch.

User Response: The cssadm daemon will clock the switch appropriately.

2543-002 **Error in *get_responds_values* for switch *switch number*. Cannot determine state of this switch.**

Explanation: When calling the said routine to read the SDR, an error occurred.

User Response: See detailed messages from the routine for more data.

2543-003 **Error in initializing the state of the daemon. Recovery may be impacted.**

Explanation: While trying to determine the initial state of the system, an error occurred. See other messages in the */var/adm/SPdata/css/cssadm** files for details.

The switch admin daemon may not properly recover from any pre-initialization conditions on this SP system as a result of this error.

User Response: Check the associated messages in the log and, if necessary, perform manual recovery of any existing switch connectivity losses. Or, correct the problem indicated in the log and restart this daemon.

2543-004 **Error in *get_primary_list*. Cannot determine state of the primary nodes on this system.**

Explanation: When calling the *get_primary_list* routine to read the SDR, an error occurred.

User Response: See detailed messages from the routine for more data.

2543-005 **Error in *get_neg_switch_responds*. Cannot determine state of the primary nodes on this system.**

Explanation: When calling the *get_neg_switch_responds* routine to read the SDR, an error occurred.

User Response: See detailed messages from the routine for more data.

2543-006 **Error in *Add_event* rc =*Add_event return code*. Cannot recover from primary node outage on primary node *primary node number*.**

Explanation: When calling the **Add_event** routine to update the list of recoverable errors, an error occurred. The daemon will not be able to perform this recovery.

User Response: Check the *cssadm.** logs for further messages from the routine, correct the problem and restart the daemon.

2543-007 **Error in *Add_event* rc =*return code*. Cannot add recovery event for clocking on switch *switch number*.**

Explanation: When attempting to add an event to the recovery queue, an error occurred. See detailed messages from the routine for more data.

User Response: Check the associated messages in the log and, if necessary, perform manual recovery of any existing switch connectivity losses. Or, correct the problem indicated by the log, and restart the switch admin daemon.

2543-008 **Error in *routine name*. Cannot determine state of the switch clocking on this system.**

Explanation: When calling the specified routine to read the SDR, an error occurred. See detailed messages from the routine for more data.

User Response: Check the associated messages in the log and, if necessary, perform manual recovery of any existing switch connectivity losses. Or correct the problem indicated by the log and restart the switch admin daemon.

2543-009 **(parent) could not fork(), *errno =errno*.**

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-010 **(child) could not set up signal handlers w/*sigaction()*, *errno = errno*.**

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-011 (child) setsid() failed, errno = *errno*.

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-012 (child) close() failed, errno = *errno*.

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-013 (child) chdir(/tmp) failed, errno = *errno*.

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-014 Could not redirect stdout and/or stderr, freopen() failed w/ errno = *errno*.

Explanation: A base operating system service call experienced an error.

User Response: Use the *errno* value to determine the reason for the error.

2543-015 cssadm_main() returned *errno*.

Explanation: The **cssadm** mainline daemon code exited.

User Response: Check the **cssadm.*** logs for further messages from the routine, correct the problem and restart the daemon.

2543-016 The **cssadm** got a SIGTERM signal.

Explanation: The **cssadm** was sent a SIGTERM.

User Response: Check the **cssadm.*** logs for further messages from the routine, correct the problem and restart the daemon.

2543-017 The **cssadm** daemon was sent a SIGDANGER signal, probably because the system is starting to get low on pg space.

Explanation: The **cssadm** daemon received a SIGDANGER signal because the system is starting to get low on paging space.

User Response: Increase paging space or stop some processes on the control workstation and restart the **cssadm** daemon.

2543-018 The **cssadm** process has exited.

Explanation: The **cssadm** has exited.

User Response: None

2543-019 Error opening the configuration file *configuration file path*.

Explanation: The switch admin daemon cannot run without the parameters located in the configuration file. Therefore, it has exited.

User Response: Check that the configuration file exists and has the correct permissions.

2543-020 Error reading the configuration file, format error *configuration file path*.

Explanation: The switch admin daemon cannot run without the parameters located in the configuration file. The file is not of the correct format. Therefore, the daemon has exited.

User Response: Check the file format. If necessary, remove the file and rerun **cssadm_ctrl** to recreate it.

2543-021 Primary and oncoming primary node not available in partition *partition name*. No further recovery will be tried until the oncoming primary is up.

Explanation: The primary node is down on **switch_responds**. The oncoming primary node is not up on **host_responds**, so the **cssadm** daemon cannot attempt to establish a primary node.

User Response: Check the oncoming primary node. If possible, reboot it to make it available on **host_responds** so that the daemon can recover. If it cannot be rebooted, manual intervention is required. You must move the primary using the **Eprimary** and **Estart** commands.

2543-022 Estart failed on partition *partition name*. No further recovery will be tried.

Explanation: A recovery **Estart** on the specified system partition was not successful. See the **/var/adm/SPIogs/css/cssadm.*** files for command output.

User Response: Determine the cause of the error from the logs, correct the problem and issue the **Estart** command.

2543-023 SDR call failure in *init_node_array*. Node recovery may not succeed.

Explanation: Initialization of an array of node and frame numbers was not successful on an SDR call. Recovery cannot proceed.

User Response: Determine the cause of the error from the logs, correct the problem and restart the **cssadm** daemon.

2543-024 Malloc failure in getting storage for a hardmon data. Global recovery may be impacted.

Explanation: Attempt to malloc storage to hold hardmon data for a switch and was not successful. Will not be able to determine the initial state of the switches. Recovery, if necessary, will be impacted.

User Response: Determine the cause of the error from the logs, correct and restart the **cssadm** daemon to reinitialize.

2543-025 Error in get_global_scoop rc = return code. Cannot obtain hardmon data for switches, cannot determine if recovery is required.

Explanation: When attempting to get the hardmon data for the master switch, an error occurred. See detailed messages from the routine for more data.

User Response: Check the associated messages in the log and, if necessary, perform manual recovery of any existing switch connectivity losses. Or, fix the problem indicated and restart this daemon.

2543-026 Error in find_switch_in_hm_array. Hardmon and SDR data are inconsistent. Recovery will be impacted.

Explanation: When attempting to find the hardmon data for a switch, an error occurred. This probably means the SDR does not have proper information regarding the switches. Check the SDR against the Hardmon data for the switches and fix the data, if necessary.

User Response: Perform manual recovery of any existing switch connectivity losses or fix the problem indicated and restart this daemon.

2543-027 Event receptor could not lock data cache: (errno) errno string.

Explanation: The event receptor was not successful locking the mutex protecting its data cache. The specific error is described in the message.

User Response: Record the above information and contact the IBM Support Center.

2543-028 Event receptor could not find location for cached data value *variable name* item *variable instance number*.

Explanation: The event receptor could not find the switch, frame, or node data in its cache for an event it received.

User Response: Restart the **cssadm** daemon. If the error persists, record the above information and contact the IBM Support Center

2543-029 Event receptor could not unlock data cache: (errno) errno string.

Explanation: The event receptor was not successful in unlocking the mutex protecting its data cache.

User Response: Record the above information and contact the IBM Support Center.

2543-030 Event receptor could not signal that cached data is ready: (errno) errno string.

Explanation: The event receptor was not successful in signaling the main program that the cached data was ready.

User Response: Record the above information and contact the IBM Support Center.

2543-031 Event receptor callback for *variable name (partition name)* had error: general general error value specific specific error value.

Explanation: The event receptor's callback for a variable processed the specified Event Management error for the variable. The codes for the error are shown in the message.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-032 Event receptor could not find SwitchNum in instance vector.

Explanation: The event receptor's callback for a power supply variable could not find the SwitchNum field in the instance vector for an Event Management event it processed.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-033 Event receptor could not locate switch *switch number* info for power supply *power supply number = power supply value*.

Explanation: The event receptor's callback for a power supply variable could not locate the data for the

switch specified by an event on the variable in its data cache.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-034 **Event receptor could not get frame information for a switch event on switch event on switch** *switch number frame frame number.*

Explanation: The event receptor could not find data for the frame specified in an oscillator error event.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-035 **Event receptor failed to get primary list.**

Explanation: SDR calls to get a list of primaries was not successful. See the **cssadm.stderr** file for details.

User Response: Check to see if the SDR is up and accessible. If the problem persists, record the above information and contact the IBM Support Center.

2543-036 **Event receptor could not get node list in partition** *partition name.*

Explanation: SDR calls to get the list of nodes in a system partition was not successful. See **cssadm.stderr** for details.

User Response: Check to see if the SDR is up and accessible. If the problem persists, record the above information and contact the IBM Support Center.

2543-037 **Event receptor failed storing cached value for** *variable name element node switch or frame number in partition partition name.*

Explanation: The Event receptor was not successful storing a variable value into the data cache. See previous messages for the cause of the error.

User Response: Record the above information and contact the IBM Support Center.

2543-038 **Event receptor could not lock SDR mutex:** *(errno) errno string.*

Explanation: Event receptor was not successful locking SDR mutex. The error is described in previous messages.

User Response: Record the above information and contact the IBM Support Center.

2543-039 **Event receptor could not unlock SDR mutex:** *(errno) errno string.*

Explanation: The Event receptor was not successful unlocking the SDR mutex. The error is described in previous messages.

User Response: Record the above information and contact the IBM Support Center.

2543-040 **Event receptor could not get partition names.**

Explanation: The Event receptor experienced an error getting system partition names. See the **cssadm.stderr** file for details.

User Response: Check to see if the SDR is up and accessible. If the problem persists, record the above information and contact the IBM Support Center.

2543-041 **Event Management session table malloc failed.**

Explanation: Storage could not be allocated.

User Response: Increase available memory by ending nonessential processes or increasing page space. If the problem persists, record the above information and contact the IBM Support Center.

2543-042 **ha_em_start_session for** *partition name failed: Event Management failure codeEvent Mgmt failure string. We will retry until we have success.*

Explanation: Event Management call to start session for a partition was not successful. Details are in the message.

User Response: Check that Event Management is up in the specified partition. If the problem persists, record the above information and contact the IBM Support Center.

2543-043 **Event Management registration for** *variable name failed in partition name: Event Management error code.*

Explanation: The program was not successful registering with Event Management for events on a variable in a system partition. The details are contained in previous messages.

User Response: Check that Event Management is up in the specified system partition. If the problem persists, record the above information and contact the IBM Support Center.

2543-044 **Event Management restart for *partition name* failed:** *Event Management failure string.*

Explanation: A call to restart an Event Management session in a system partition was not successful. The details are contained in the message.

User Response: Check that Event Management is up in the specified system partition. If the problem persists, record the above information and contact the IBM Support Center

2543-045 **Could not reconnect to Event Management in *partition name* after *attempt count* attempts.**

Explanation: Repeated attempts to restart the Event Management session for a system partition were not successful.

User Response: Check that Event Management is up in the specified system partition. If the problem persists, record the above information and contact the IBM Support Center.

2543-046 **Could not match Event Management event to one of our registrations in *partition name*.**

Explanation: An event was received from Event Management that did not correspond to any of the registrations made for the specified system partition.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-047 **Event Management error for *variable name (instance vector) in partition name*: *gen: general error spec: specific error*.**

Explanation: An Event Management event indicating an error for the specified registration in the specified system partition was received. Execution continues.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-048 **Event receptor had error in error-handling function for *variable name in partition name (gen: general error spec: specific error)*.**

Explanation: The function handling a "no-instances-available" condition for a variable had an error. See preceding messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-049 **Could not find locator *locator string* in *ivector instance vector* for *variable name* in *partition name*.**

Explanation: The label of the locator element of an instance vector for an Event Management variable was not found.

User Response: Record the above information and contact the IBM Support Center.

2543-050 **Event receptor could not enqueue *variable name* event.**

Explanation: The Event receptor was not successful while creating an internal record for an event on the specified Event Management variable. See previous messages for the cause of the error.

User Response: Record the above information and contact the IBM Support Center.

2543-051 **Problem with Event Management registration for *variable name in partition name (instance vector)*: *gen: general error spec: specific error pred error: predicate error error pos: error position*.**

Explanation: The Event receptor received an error registering for events on an Event Management variable in a system partition. Details are in the message.

User Response: Record the above information and contact the IBM Support Center.

2543-052 **Event receptor had internal failure trying to restart session for *partition name*.**

Explanation: The Event receptor was not successful restarting an Event Management session for a system partition. See preceding messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-053 **Event Management receive for *partition name: error string*.**

Explanation: The Event Management subsystem returned an error for a **receive**. The error is described in the message.

User Response: Check that Event Management is up in the specified system partition. If the problem persists, record the above information and contact the IBM Support Center.

2543-054 Event receptor failed processing event traffic.

Explanation: The Event receptor was unsuccessful processing Event Management events. See previous messages for details.

User Response: If the problem persists, record the above information and contact the IBM Support Center.

2543-055 Event receptor received unknown command *Event Management command value from Event Management for partition name.*

Explanation: An unrecognized command value was received from Event Management.

User Response: Record the above information and contact the IBM Support Center.

2543-056 Initialization of SDR access failed.

Explanation: An internal error occurred while initializing interfaces to the SDR. See previous messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-057 Event receptor thread will not run.

Explanation: The event receptor thread was not successful and could not be restarted.

User Response: Restart the **cssadm** daemon. If the error occurs again, record the above information and contact the IBM Support Center.

2543-058 Could not get event list.

Explanation: The attempt to get the latest set of events was not successful.

User Response: Restart the **cssadm** daemon. If the error occurs again, record the above information and contact the IBM Support Center.

2543-059 Failure starting event thread.

Explanation: The event receptor thread was not successful during initial startup.

User Response: Restart the **cssadm** daemon. If the error occurs again, record the above information and contact the IBM Support Center.

2543-060 Could not lock data mutex: (*errno value*) *errno string*.

Explanation: The **cssadm** daemon could not lock the data cache.

User Response: Record the above information and

contact the IBM Support Center.

2543-061 Timed wait for cached data ready failed: (*errno value*) *errno string*.

Explanation: A call to wait for cached data to be ready returned with an error.

User Response: Record the above information and contact the IBM Support Center.

2543-062 Could not unlock data mutex: (*errno value*) *errno string*.

Explanation: The **cssadm** daemon could not unlock the data cache.

User Response: Record the above information and contact the IBM Support Center.

2543-063 Event receptor has not signalled that cached reported data is ready.

Explanation: The Event receptor has not yet signalled the **cssadm** daemon that the cached data it supplies is ready. Execution continues with assumed defaults.

User Response: No action is necessary. If the problem persists or the **cssadm** daemon fails for other reasons, record the above information and contact the IBM Support Center.

2543-064 Switch_ponds for node *node number* not yet supplied by Event Management, assuming down.

Explanation: The Event receptor has not yet received information about the switch connectivity of the specified node, and is assuming that the node is off the switch.

User Response: No action is necessary. Check the **switch_ponds** state of the node to verify that it is off the switch.

2543-065 Host responds for node *node number* not yet supplied by Event Management, assuming down.

Explanation: The Event receptor has not yet received information about whether the specified node is up or down and is assuming that the node is down.

User Response: No action is necessary. Check the **host_ponds** state of the node to verify that it is down.

2543-066 Could not present events enqueued by initialization.

Explanation: The **cssadm** daemon could not use previously queued events. See previous messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-067 Could not determine switch type from SDR. CSS Admin daemon aborting.

Explanation: The **cssadm** daemon could not determine switch type from the SDR. See the **cssadm.stderr** file for error messages.

User Response: Correct the SDR problems.

2543-068 Daemon not supported on non-SP switch. CSS Admin daemon aborting.

Explanation: The **cssadm** daemon is supported only in an SP switch environment.

User Response: None.

2543-069 Event receptor had failure while verifying it should generate event for Event Management variable name element node switch or frame number in partition partition name.

Explanation: The Event receptor was not successful while verifying that it should generate an event for an Event Management variable change it received. Details are in the message text. See previous messages for the cause of the error.

User Response: Restart the **cssadm** daemon. If problem recurs, record the above information and contact the IBM Support Center.

2543-070 Daemon not supported on this system size. CSS Admin daemon aborting.

Explanation: The **cssadm** daemon is supported only in configurations of 128 nodes or less.

User Response: None.

2543-071 Could not initialize list storage mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not lock the event list storage mutex. Details are contained in the message.

User Response: Record the above information and contact the IBM Support Center.

2543-072 Could not lock event storage mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not lock the event list storage mutex. Details are contained in the message.

User Response: Record the above information and contact the IBM Support Center.

2543-073 Could not unlock the event storage mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not lock the event list storage mutex. Details are contained in the message.

User Response: Record the above information and contact the IBM Support Center.

2543-074 Could not initialize event list mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not initialize the event list mutex.

User Response: Record the above information and contact the IBM Support Center.

2543-075 Could not initialize event list condvar: (errno) errno string.

Explanation: The **cssadm** daemon could not initialize the event list condition variable.

User Response: Record the above information and contact the IBM Support Center.

2543-076 Could not lock event list mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not lock the event list mutex.

User Response: Record the above information and contact the IBM Support Center.

2543-077 Enqueue of event failed.

Explanation: The **cssadm** daemon could not enqueue an internal event. See preceding messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-078 Could not unlock event list mutex: (errno) errno string.

Explanation: The **cssadm** daemon could not unlock the event list mutex.

User Response: Record the above information and contact the IBM Support Center.

2543-079 Could not present events after user Eclock request.

Explanation: The **cssadm** daemon could not use previously queued events. See preceding messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-080 **failure waiting for enqueued events:**
(errno) errno string.

Explanation: The **cssadm** daemon was not successful while waiting for enqueued events to become available.

User Response: Record the above information and contact the IBM Support Center.

2543-081 **Event list already available.**

Explanation: The **cssadm** daemon attempted to make enqueued events available, but found that they had already been made available. This is an internal error.

User Response: Record the above information and contact the IBM Support Center.

2543-082 **Could not signal event list available:**
(errno) errno string.

Explanation: The **cssadm** daemon was not successful signaling that the event list is available.

User Response: Record the above information and contact the IBM Support Center.

2543-083 **SIGALRM handler got unexpected signal**
signal number.

Explanation: The **cssadm** daemon received an unexpected signal.

User Response: Record the above information and contact the IBM Support Center.

2543-084 **Signal handler could not present events.**

Explanation: The **cssadm** daemon could not present enqueued events in a signal handler.

User Response: Record the above information and contact the IBM Support Center.

2543-085 **Event receptor could not cancel alarm handler:**
(errno) errno string.

Explanation: The **cssadm** daemon could not cancel an alarm handling thread.

User Response: Record the above information and contact the IBM Support Center.

2543-086 **Event receptor could not set signal mask:**
(errno) errno string.

Explanation: The **cssadm** daemon could not set the signal mask for the event receptor.

User Response: Record the above information and contact the IBM Support Center.

2543-087 **Event receptor could not start SIGALRM handler:**
(errno) errno string.

Explanation: The **cssadm** daemon could not start the signal handling thread.

User Response: Record the above information and contact the IBM Support Center.

2543-088 **EM registration failed**

Explanation: The **cssadm** daemon could not register with Event Management. See preceding messages for details.

User Response: Check to see if Event Management is operational. If the problem persists, record the above information and contact the IBM Support Center.

2543-089 **Could not set up user Eclock request socket**

Explanation: Error establishing socket for user Eclock requests. See preceding messages for details.

User Response: Call the IBM Support Center if the problem persists.

2543-090 **Event wait failed**
errno errno string

Explanation: Select for Event Management events and user Eclock requests was not successful.

User Response: Check if Event Management is operational. Call the IBM Support Center if the problem persists.

2543-091 **Event receptor had failure processing Eclock request**

Explanation: Error establishing socket for user Eclock requests. See preceding messages for details.

User Response: Contact the IBM Support Center.

2543-092 **Could not initialize event list mechanism.**

Explanation: The **cssadm** daemon could not initialize the event list. See preceding messages for details.

User Response: Record the above information and contact the IBM Support Center.

2543-093 **Could not init thread attr object:**
(errno) errno string.

Explanation: The **cssadm** daemon could not initialize the thread attributes object for the event receptor.

User Response: Record the above information and contact the IBM Support Center.

2543-094 **Could not set thread detach state:**
(*errno*) *errno string*.

Explanation: The **cssadm** daemon could not set the detach state for the event receptor.

User Response: Record the above information and contact the IBM Support Center.

2543-095 **Could not start event receptor thread:**
(*errno*) *errno string*.

Explanation: The **cssadm** daemon could not start the event receptor thread.

User Response: Record the above information and contact the IBM Support Center.

2543-096 **Unable to check event receptor thread liveness:** (*errno*) *errno string*.

Explanation: The **cssadm** daemon could not check the event receptor thread liveness.

User Response: Record the above information and contact the IBM Support Center.

2543-097 **Event receptor thread inoperative, attempting restart.**

Explanation: The event receptor is not responding. See preceding messages for details. The **cssadm** daemon will attempt to restart it.

User Response: Check to see if Event Management is operational. If the problem persists, record the above information and contact the IBM Support Center.

2543-098 **Could not join to event receptor:** (*errno*) *errno string*.

Explanation: The **cssadm** daemon could not join to an old event receptor thread.

User Response: Record the above information and contact the IBM Support Center.

2543-099 **Event receptor had internal failure.**

Explanation: An old event receptor thread died because of an internal error. See preceding messages for details.

User Response: Restart the **cssadm** daemon. If the problem persists, record the above information and contact the IBM Support Center.

2543-100 **Not all hosts down for a frame controller down event for Node frame.**

Explanation: Not all nodes down on a node frame reporting a frame controller down even. The nodes must still have power.

User Response: Record the error information contact the IBM Support Center.

2543-101 **Not all nodes are down on the switch for a frame controller down event for the intermediate switch frame.**

Explanation: An intermediate switch frame had a controller responds down event but the switch is not down globally.

User Response: Check to see if the switch primary node is down. If it is not, record the error information and contact the IBM Support Center.

2543-102 **Leaf switch failed to Eclock. switch number *switch number* clock_input *clock input value*.**

Explanation: The specified switch number failed to Eclock successfully.

User Response: Record the error information contact the IBM Support Center.

2543-103 **Invalid line in Eclock topology file at line *line number*.**

Explanation: The Eclock topology file contains a line with data which is not valid.

User Response: Review the current Eclock topology file and correct the data on the specified line.

2543-104 **Master clock recovery has failed.**

Explanation: Recovery from a mast clock failure was not successful.

User Response: Run **Eclock —d** and if necessary, **Eclock —a**. If these commands are not successful, record the error information and contact the IBM Support Center.

2543-105 **Running Eclock failed with file *file name* and alternative *alternative number*.**

Explanation: Attempt to clock switch with a particular alternative was not successful.

User Response: If the problem persists, contact the IBM Support Center.

2543-106 **Attempt to restart event receptor failed:** (*errno*) *errno string*.

Explanation: An attempt to start a new event receptor thread was not successful.

User Response: Record the above information and contact the IBM Support Center.

2543-107 **Could not restart event receptor thread after *start attempt count* tries.**

Explanation: An attempt to restart an event receptor thread was not successful. See preceding messages for details.

User Response: Restart the **cssadm** daemon. If the problem persists, record the above information and contact the IBM Support Center.

2543-108 **Could not read from user Eclock socket: *errno errorn string***

Explanation: Unsuccessful reading user Eclock request from socket.

User Response: Contact the IBM Support Center.

2543-109 **Could not write to user Eclock socket: *errno errorn string***

Explanation: Unsuccessful writing output to user Eclock command.

User Response: Contact the IBM Support Center.

2543-110 **Bad parameters from user Eclock: *Eclock parameter string***

Explanation: Unsuccessful translating user Eclock parameters.

User Response: Contact the IBM Support Center.

2543-111 **Fork for Eclock failed: (*errno*) *errno string***

Explanation: Unsuccessful trying to fork process for user Eclock request.

User Response: If message indicates insufficient resources, retry request after freeing resources. Contact the IBM Support Center if the problem persists.

2543-112 **Could not open Eclock log: (*errno*) *errno string***

Explanation: Unsuccessful opening log file for internal Eclock execution output.

User Response: Contact the IBM Support Center.

2543-113 **dup2 of user Eclock socket failed: (*errno*) *errno string***

Explanation: Unsuccessful duplicating output file descriptors for Eclock execution.

User Response: Contact the IBM Support Center.

2543-114 **Execution of Eclock failed: (*errno*) *errno string***

Explanation: Unsuccessful executing internal Eclock script.

User Response: Contact the IBM Support Center.

2543-115 **waitpid for Eclock failed: (*errno*) *errno string***

Explanation: Unsuccessful waiting for internal Eclock script to complete.

User Response: Contact the IBM Support Center.

2543-116 **Could not find switch *switch number* we just clocked in switch array.**

Explanation: A switch which was just clocked by an internal or user Eclock was not found in internal switch array.

User Response: Contact the IBM Support Center.

2543-117 **Could not get switch and frame information from SDR**

Explanation: Unsuccessful obtaining Switch and Frame class information from SDR.

User Response: Check that SDR is operational. Contact IBM software service if problem persists.

2543-118 **Could not open socket for Eclock requests: (*errno*) *errno string***

Explanation: Unsuccessful opening socket for Eclock requests

User Response: Contact the IBM Support Center.

2543-119 **unlink of user Eclock socket file failed: (*errno*) *errno string***

Explanation: Unsuccessful removing old Eclock socket file.

User Response: Contact the IBM Support Center.

2543-120 **Could not bind Eclock socket: *errno errno string***

Explanation: Unsuccessful binding user Eclock request socket.

User Response: Contact the IBM Support Center.

2543-121 **Eclock socket listen failed: *errno errno string***

Explanation: Unsuccessful setting up user Eclock request socket for listening

User Response: Contact the IBM Support Center.

2543-122 **Accept on Eclock socket failed:** *errno*
errno string

Explanation: Unsuccessful establishing connection to user Eclock request.

User Response: Contact the IBM Support Center.

2543-123 **Could not add event for user Eclock**

Explanation: Unsuccessful enqueueing event for user Eclock request. See preceding messages for details.

User Response: Contact the IBM Support Center.

2543-124 **Could not set thread scope:** *errno* *errno*
string

Explanation: Unsuccessful setting scope for thread.

User Response: Contact the IBM Support Center.

2543-125 **Global recovery is not available for systems greater than four switches**

Explanation: Global recovery of the Switch Admin. Daemon is limited to 4 switches.

User Response: Your system is above this boundary. Change the Switch Admin Daemon config file `/spdata/sys1/ha/css/cssadm.cfg` to reflect no global recovery.

2543-126 **No recovery is specified in the cssadm.cfg file, daemon exiting.**

Explanation: `/spdata/sys1/ha/css/cssadm.cfg` config file specifies neither node nor switch recovery is enabled so the daemon is not required.

User Response: Check the config file for the recovery you desire.

2543-127 **Error changing Eclock topology alternate number in SDR. SDR value may be incorrect.**

Explanation: An update of the SP object in the SDR was not successful. As a result, the `switch_clocking_alt_num` may be incorrect.

User Response: Determine the reason why you could not write to the SDR.

2543-128 **Error obtaining Eclock topology clock_source number from SDR. Recovery for switch *switch number* is aborted.**

Explanation: A query of the Switch object of the SDR was not successful. Clock recovery for the switch cannot be run.

User Response: Determine why the SDR could not be read.

2543-129 **Error obtaining Eclock topology mux information from Eclock topology file. Recovery for switch *switch number* is aborted.**

Explanation: Could not find the switch for which we are attempting recovery in the current stanza of the Eclock topology file.

User Response: Determine why the Eclock topology does not have this switch.

2543-130 **Could not determine switch type from SDR. CSS Admin2 daemon aborting.**

Explanation: Could not determine switch type from SDR. See `cssadm.stderr` for error messages.

User Response: Correct the SDR problems.

2543-131 **Daemon not supported on system without an SP Switch2 switch. CSS Admin2 aborting.**

Explanation: Daemon is only supported in SP switch environment.

User Response: None

2543-132 **Daemon not supported on this system size. CSS Admin2 daemon aborting.**

Explanation: Daemon is only supported up to 128-way.

User Response: None

2543-133 **The cssadm2 daemon process has exited.**

Explanation: The `cssadm2` process has exited.

User Response: None.

2543-200 **Error *hm_errno* returned from starting hardmon session. Recovery may be impacted.**

Explanation: `hm_start_session` gave a return code less than zero.

User Response: Ensure that the hardmon subsystem is operating correctly.

2543-201 Error *hm_errno* returned from querying hardmon data. Recovery may be impacted.

Explanation: *hm_query* gave a non-zero return code.

User Response: Ensure that the hardmon subsystem is operating correctly.

2543-202 Error *hm_errno* returned from getting hardmon data. Recovery may be impacted.

Explanation: *hm_get_state* gave a non-zero return code.

User Response: Ensure that the hardmon subsystem is operating correctly.

2543-203 Error *hm_errno* returned from creating hardmon data structure. Recovery may be impacted.

Explanation: *hm_get_state* gave a non-zero return code

User Response: Ensure that the hardmon subsystem is operating correctly.

2543-500 Could not set signal mask before calling DCE routine - return code is *sig_rc*

Explanation: Signal mask could not set signal mask before DCE call - could result in sign handling problems.

User Response: None

2543-501 Could not restore old signal mask - return code is *sig_rc*

Explanation: Signal mask could not restore signal mask after DCE call - could result in signal handling problems.

User Response: None

2543-505 Error from *spsec_get_ts_authent* - return code is *return code*

Explanation: Received an error from *spsec* routine

User Response: If other errors result, investigate security errors.

2543-506 Error from *spsec_using_auth_method* - return code is *sec_status.spsec*

Explanation: Received an error from the *spsec* routine.

User Response: If other errors result, investigate security errors.

2543-507 Error from *spsec_login_as_service* - return code is *sec_status.spsec*

Explanation: Received an error from the *spsec* routine.

User Response: If other errors result, investigate security errors.

2543-508 *spsec_get_my_identity* either returned no identity or non-zero return code *sec_status.spsec*

Explanation: Received an error from the *spsec* routine.

User Response: If other errors result, investigate security errors.

2543-509 Error from *spsec_renew_identity* - return code is *sec_status.spsec*

Explanation: Received an error from the *spsec* routine.

User Response: If other errors result, investigate security errors.

2543-510 Error text is *error message text*.

Explanation: Received an error from the *spsec* routine.

User Response: If other errors result, investigate security errors.

2543-601 Error in *get_num_planes*. Cannot determine the number of planes on this system.

Explanation: The *emasterd* daemon tried reading the *SDR.SP.number_switch_planes*.

User Response: Ensure that the System Data Repository is operating correctly.

2543-602 Error in *get primaries_info*. Cannot determine the primary nodes on this system.

Explanation: The *emasterd* daemon tried reading the *SDR.Switch_plane.primary_name*.

User Response: Ensure that the System Data Repository is operating correctly. If it is, use the

Eprimary command followed by **Estart** to set the primary node. Restart the emasterd daemon, if necessary.

2543-603 Error in get_MSS_info. Cannot determine the Master Switch Sequencer on this system.

Explanation: The emasterd daemon tried reading the *SDR.SP.master_switch_seq*.

User Response: Ensure that the System Data Repository is operating correctly. If it is, restart the emasterd daemon, if necessary.

2543-604 Error in resign_MSS. Cannot force current Master Switch Sequencer node to resign.

Explanation: The emasterd daemon tried stopping the current MSS node from resigning MSS responsibilities.

User Response: If necessary, reboot the current MSS node. Run **Estart** to have a new MSS node assigned.

2543-605 assign_MSS succeeded. New Master Switch Sequencer node = new MSS node number.

Explanation: The emasterd daemon successfully assigned new Master Switch Sequencer.

User Response: None.

2543-606 Error in get_backup_prim_list. Cannot get backup primary nodes list.

Explanation: The emasterd daemon tried reading the *SDR.Switch_plane.primary_backup_name*.

User Response: Ensure that the System Data Repository is operating correctly. If it is, use the **Eprimary** command followed by **Estart**, to set the primary backup node. Restart the emasterd daemon, if necessary.

2543-607 Error in get_oncoming_prim_list. Cannot get oncoming primary nodes list.

Explanation: The emasterd daemon tried reading the *SDR.Switch_plane.oncoming_primary_name*.

User Response: Ensure that the System Data Repository is operating correctly. If it is, use the **Eprimary** command followed by **Estart**, to set the primary backup node. Restart the emasterd daemon, if necessary.

2543-608 Error in get_node_no_list. Cannot get all nodes list.

Explanation: The emasterd daemon tried reading the *SDR.Node.node_number*.

User Response: Ensure that the System Data Repository is operating correctly.

2543-609 Error in get_reliable_hostname_from_node_no. Could not determine the node reliable name.

Explanation: The emasterd daemon tried reading the *SDR.Node.reliable_hostname*.

User Response: Ensure that the System Data Repository is operating correctly.

2543-610 System command string failed. Could not i_Stub(node=node_number resign the node=node_number).

Explanation: The **emasterd** daemon was unable to issue the remote command **i_stub_CS** to the node.

User Response: Ensure that the node is operating correctly. Reboot the node, if necessary, and run **Estart** to set a new MSS node.

2543-611 System command string failed. Could not copy the i_Stub result file from node number node_number to the CWS.

Explanation: The emasterd daemon was unable to get the file from the node using a remote command.

User Response: Ensure that the node is operating correctly and ensure that the **fault_service_daemon_CS** is running or reboot the node. Run **Estart** to set a new MSS node.

2543-612 i_stub_CS(node=node_name) timedout.

Explanation: The **emasterd** daemon issued the **i_stub_CS** command to the node via a remote command, and it did not receive a response from the node.

User Response: Ensure that the node is operating correctly. Reboot the node, if necessary, and run **Estart** to set a new MSS node.

2543-613 i_stub_CS(node=node_name) failed: rc=return-code.

Explanation: The emasterd daemon received a non-zero return code from running the **i_stub_CS** command.

User Response: Ensure that the node is operating

correctly and ensure the `fault_service_daemon_CS` is running. Reboot the node, if necessary, and run **Estart** to set a new MSS node.

2543-614 **system cammand string failed.**

Explanation: The emasterd daemon was unable to issue the command.

User Response: Ensure that the control workstation and the nodes are operating correctly.

2543-615 **put_MSS(node=node_name) failed: rc=return-code.**

Explanation: The emasterd daemon was unable to assign a new MSS node.

User Response: None.

2543-616 **The emasterd daemon got a SIGTERM signal.**

Explanation: The emasterd daemon was sent a SIGTERM.

User Response: Restart the emasterd daemon.

2543-617 **The emasterd daemon got a SIGDANGER signal, probably because the system is starting to get low on pg space.**

Explanation: The emasterd daemon was sent a SIGDANGER signal because the system is starting to run low on paging space.

User Response: Release some paging resources on the control workstation and restart the emasterd daemon.

2543-618 **The emasterd process has exited.**

Explanation: The emasterd process has exited.

User Response: Restart the emasterd daemon.

2543-619 **Error in init_fabric_status. Could not determine the current status from SDR. Exiting.**

Explanation: The emasterd process has exited.

User Response: Ensure that the System Data Repository is operating correctly. Restart the emasterd daemon.

2543-620 **Error in handle_init_state. Exiting.**

Explanation: The emasterd process has exited.

User Response: Ensure that the System Data Repository is operating correctly. Restart the emasterd daemon.

2543-621 **Error in start_event_thread. Exiting.**

Explanation: The emasterd process has exited.

User Response: Restart the emasterd daemon.

2543-622 **Error in get_sw_resp_node_list. Cannot read all the planes switch responding node list on this system.**

Explanation: The emasterd daemon tried reading the `SDR.switch_responds.switch_responds0values`.

User Response: Ensure that the System Data Repository is operating correctly.

2543-623 **Error in get_oncoming_bkup_list. Cannot get oncoming backup nodes list.**

Explanation: The emasterd daemon tried reading the `SDR.Switch_plane.oncoming_backup_name`.

User Response: Ensure that the System Data Repository is operating correctly.

2543-624 **Error in get_node_info. Cannot get node= node_number information from SDR.**

Explanation: The emasterd daemon tried reading the `SDR.Node.frame_number` and `SDR.Node.reliable_hostname` and `SDR.Switch_adapter_port.switch_number` of the request node.

User Response: Ensure that the System Data Repository is operating correctly.

2543-625 **Error in get_dependent_nodes. Cannot read the list of dependent nodes from the system.**

Explanation: The emasterd daemon tried reading the `SDR.DependentNode.node_number`.

User Response: Ensure that the System Data Repository is operating correctly.

2543-667 **Could not determine switch type from SDR. CSS Emaster daemon aborting.**

Explanation: Could not determine switch type from SDR. See `emaster.stderr` for error messages.

User Response: Correct the SDR problems.

2543-668 **Daemon not supported on non-SP switch. CSS Emaster daemon aborting.**

Explanation: Daemon is only supported in an SP switch environment.

User Response: If running in an SP Switch2

environment, ensure that the System Data Repository is operating correctly. Restart the emasterd daemon.

2543-701 Event receptor could not get primary node information

Explanation: A call to `get primaries_info` by the event receptor thread was not successful.

User Response: Contact the IBM Support Center.

2543-702 Event receptor could not get Master Switch Sequencer node information

Explanation: A call to `get MSS_info` by the event receptor thread was not successful.

User Response: Contact the IBM Support Center.

**2543-703 trylock for MSS mutex failed: *errno*
*errno string***

Explanation: A call to `pthread_mutex_trylock` for the MSS mutex was not successful.

User Response: Contact the IBM Support Center.

**2543-704 could not unlock MSS mutex: *errno*
*errno string***

Explanation: A call to `pthread_mutex_unlock` for the MSS mutex was not successful.

User Response: Contact the IBM Support Center.

2543-705 Event receptor could not signal that it has become active: *errno* *errno string*

Explanation: A call to `pthread_cond_signal` was not successful.

User Response: Contact the IBM Support Center.

2543-706 Unable to malloc storage for new eventlist entry, *errno* = *errno*

Explanation: The emaster daemon was unable to obtain the storage it needed.

User Response: Release some memory on the control workstation by stopping any unnecessary applications.

2543-707 Broken event list.

Explanation: An internal error occurred.

User Response: Restart the emasterd daemon.

Chapter 40. 2545 - Authentication installation and configuration messages

2545-001 Command *command name* was unsuccessful. rc=*return code*.

Explanation: The invoked command was unsuccessful with the return code specified.

User Response: Execute the command from the prompt to diagnose the problem. Correct the problem and enter the command again.

2545-002 The **-g** option supported only from CWS.

Explanation: The command has been invoked with the **-g** option from a node. However, the **-g** option can be used only when the host is the control workstation.

User Response: Use the command with the **-g** option from the control workstation.

2545-003 Usage: *program name* [-h]

Explanation: There is a syntax error in the command line options used.

User Response: See the usage message and the man page for the command to find the correct syntax of the command line options.

2545-004 Opening file *file name* for writing was unsuccessful.

Explanation: Opening the specified file for writing was unsuccessful.

User Response: If the file exists, verify that you have write permission for the file. If the file does not exist, check the write permission of the directory in which the file is to be created. Correct the problem and enter the command again.

2545-005 Opening file *file name* for reading was unsuccessful.

Explanation: Opening the specified file for reading was unsuccessful.

User Response: Verify that the file exists and that you have read permission. Correct the problem and enter the command again.

2545-006 Could not obtain DCE hostname(s) from SDR for nodes. Local */.k5login* file will not be updated.

Explanation: A problem has been found in retrieving the **dcehostname** attribute from the SDR Node object.

User Response: The **create_dcehostnames**

command may not have run successfully. The **dcehostnames** for each node must exist in the SDR. Ensure the **create_dcehostnames** command has run and was successful. Use the **SDRGetObjects** command to retrieve and display the **dcehostname** attribute of Node object for all nodes. Correct SDR problems and enter this command again.

2545-007 Executing the **updauthfiles** command on remote nodes (through **dsh**) was unsuccessful on one or more remote nodes as indicated below:

Explanation: The control workstation has run the command on the nodes using the **dsh** command. The **updauthfiles** command was unsuccessful on at least one remote node. The list of nodes on which the command was unsuccessful is printed after this problem message.

User Response: Use the logfile */var/adm/SPIlogs/auth_install/log* file on each remote node to diagnose the problem on that node.

2545-008 Could not obtain valid CWS DCE hostname from SDR. Local */.k5login* file will not be updated.

Explanation: A problem has been found in retrieving DCE hostname of the control workstation from the SDR.

User Response: Check to see if the control workstation **dcehostname** attribute of the SP object in the SDR exists and is not empty. Correct the problem and enter the command again.

2545-009 Executing **dsh** was unsuccessful because a remote command to one or more remote nodes was unsuccessful. The **dsh** output indicating remote command problems follows:

Explanation: The **dsh** execution was unsuccessful since a remote command to one or more nodes was unsuccessful. Those nodes may be down or there may not be any common authentication mechanism turned on for remote commands to use. The list of nodes on which the remote command was unsuccessful appears after this problem message. The **updauthfiles** command is not run locally on those nodes.

User Response: Identify the nodes for which the remote command was unsuccessful and check to see if they are down. There is no problem if a node is down, since the **updauthfiles** command will be run locally on the node on its next reboot. If the node is up and running and the remote command was unsuccessful,

turn on any common authentication mechanism between the control workstation and the node.

2545-010 Unexpected errors: dsh to update authorization files in remote nodes is suspended beyond timeout value of *timeout value seconds*.

Explanation: The `updauthfiles` command is run in all the nodes through the `dsh` command. The remote command to at least one node hangs, causing the `dsh` command to hang.

User Response: See the process status to check the hanging `dsh` and remote commands. The hanging remote command, as seen by the `ps` command, indicates the set of nodes on which the remote command is hung. This may occur when the nodes are hanging, but not when they are down.

The nodes that are hung may have to be rebooted. If the nodes are not really hung, enter the `updauthfiles` command with a higher timeout value. Note that the default timeout value is assumed if the timeout value is not specified.

2545-011 Was unable to copy .klogin from *directory to directory*

Explanation: Program was unable to copy the `.klogin` file from the stated directory to another directory.

User Response: Ensure proper permissions for the 'to directory', ensure enough space available in the 'to directory' file system. Rerun the command after you have corrected the problem.

2545-012 An error occurred in trying to remote copy file *file_name* was unsuccessful with *rc=return_code*

Explanation: Remote copy was unsuccessful. Either you do not have proper authority to issue the remote copy, or the file does not exist

User Response: Ensure you have proper authority to do the remote copy and ensure that the file exists. Then, enter the command again.

2545-020 DCE *dce level (2.2)* or greater must be installed on the control workstation prior to running this command.

Explanation: The specified level of DCE is required for this level of PSSP software.

User Response: Ensure that the proper level of DCE is installed, configured, and running on the control workstation prior to running this command.

2545-021 Command syntax error. Incorrect or missing arguments.

Explanation: A required option was missing, or an incorrect argument was supplied.

User Response: Refer to the command syntax displayed and enter the command with the correct syntax.

2545-022 Error with SDR read operation for *SDR object object*.

Explanation: An error occurred while trying to issue the `SDRGetObjects` command for the specified object.

User Response: Ensure that the object and its attributes exist. The problem may be due to not running previous steps to create or update the objects in the SDR.

2545-023 Could not change attribute, *attribute*, in the SDR. SDR returned *rc = SDR return code*.

Explanation: The program was not able to update the value of the specified attribute. This could occur because the SDR daemon is not running, the object is not in the SDR, or the SDR is corrupted.

User Response: Review any previous error messages pertaining to the SDR, ensure that the SDR is running, and enter this command again.

2545-024 DCE was selected as an authentication method and is required to be installed, configured, and running for this program to continue.

Explanation: This program requires that the DCE be functional to obtain information from the DCE databases to configure the SP to use DCE.

User Response: Review the messages to determine the state of DCE. Correct as appropriate and enter the command again.

2545-025 This command must be run on the Control Workstation only.

Explanation: This command configures the DCE database with node information. The control workstation has all the required information available and must already be configured for DCE. DCE must be running.

User Response: Run the command on the control workstation.

2545-026 **The -u option requires UNIX root authority.**

Explanation: The command has been invoked with the **-u** option, by a user other than **root**.

User Response: Login as **root**, and enter the command again.

2545-027 **Could not create a temporary response file in /tmp for use with config.dce command.**

Explanation: The program was unsuccessful trying to create a temporary file in /tmp directory.

User Response: Check if /tmp file system has enough space. Fix the problem and enter the command again.

2545-028 **Problems encountered trying to do an \'admin\' \ client configure of the nodes. Refer to DCE configure log \'/opt/dcelocal/etc/cfgdce.log\' for more information.**

Explanation: Running config.dce for admin configuring all the nodes was unsuccessful. There may be problems in creating principals.

User Response: Check if DCE registry is not corrupted. Fix the problem and enter the command again. Refer to any msgs found in /opt/dcelocal/etc/cfgdce.log for more information.

2545-029 **Command syntax error. The flag flag requires a hostname.**

Explanation: A hostname was expected following the specified flag.

User Response: Enter the command again with a hostname for the stated flag.

2545-030 **DCE is not installed on this machine.**

Explanation: DCE must be installed, configured, and running for this program.

User Response: None

2545-031 **DCE is not configured on this machine.**

Explanation: DCE must be installed, configured, and running for this program.

User Response: None

2545-032 **Could not open file \'/etc/dce/cfg.dat\'.**
This file is used to determine if DCE is configured at the right levels.

Explanation: Program attempted to open file and was unsuccessful.

User Response: File is required to determine the state of DCE on this machine. This file is created by DCE and should have the appropriate read bits set. Check the file to ensure you have read permission and enter the command again.

2545-033 **DCE is not running on this machine.**
The command dcecp -c keytab catalog was used to determine if DCE is running. The command output is:

Explanation: Program attempted to open file and was unsuccessful communicating with DCE. There may be some networking problems which may cause DCE to not allow client to server communication.

User Response: Review any additional messages produced by the command. Using the DCE help text, determine the cause of the problem, correct as appropriate, and enter this program again.

2545-034 **DCE is installed but not at the minimum level required. The minimum level required is *Minimum version of DCE*.**

Explanation: This level of PSSP requires the stated level of DCE.

User Response: If this is a node, refer to the DCE documentation for upgrading DCE. Since DCE was selected as an authentication method for the node, and DCE could not be correctly installed, 'dce' will be removed from the node's authentication settings and use. This may leave the node without any authentication methods, and therefore leave the node without remote command or trusted services functions.

2545-040 **No authentication or authorization methods were specified on the command line.**

Explanation: The authentication or authorization methods must be specified on the command line. For example: **k4, std**.

User Response: Refer to the syntax of the command and enter the command with the proper syntax and options.

2545-041 **Error with SDRChangeAttrValues. SDR returned rc = *SDR return code*.**

Explanation: An error occurred while updating the SDR.

User Response: Check to ensure that the SDR is running and enter the command again.

2545-042 **Syntax error. Either -i and -d flags were specified together or neither flag on the command line.**

Explanation: The -i and -d flag are mutually exclusive and one must be specified.

User Response: Enter the correct syntax for the command.

2545-043 **updauthfiles command was unsuccessful with return code updauthfiles return code.**

Explanation: The **updauthfiles** command was unsuccessful. It may or may not be fatal. Possible reasons for the problem include: the SDR is not running, or the node itself is not running or the node is not configured to allow remote authorization.

User Response: The node must be up and running for the **updauthfiles** command to run. Some authorization must be available on the node to allow for remote execution of the command. In the case of a node being down, when it is rebooting, the node will correct or update its own authorization files. After rebooting the node, you must run the **updauthfiles** command on the control workstation to update all the other nodes.

2545-044 **This command must be run from the control workstation only.**

Explanation: The **updauthfiles** command should not be run from nodes.

User Response: Run the command from the control workstation only.

2545-045 **Missing authentication method is an additional required setting for this command due to other authentication attributes. These other attributes were set by spsetauth -d, or chauthpar, or chauthpts.**

Explanation: The complete set of authentication capabilities for this partition is required to be the union of all other partition sensitive authentication methods. These methods are for authorization of root user of AIX Remote Commands set using the **spsetauth -d** command, Enablement of Authentication methods for AIX Remote Commands set using **chauthpar**, and SP Trusted Services Authentication methods set using **chauthpts**.

User Response: Run the command with the required set of methods.

2545-046 **The set *authorization methods to be set* is not valid. There must be at least one common method between Authorization methods and Authentication methods for AIX Remote Commands.**

Explanation: There needs to be at least one common authentication method between Authorization for AIX Remote Commands and the Enabling of Authentication methods for AIX Remote Commands. Otherwise, AIX remote commands will not function properly.

User Response: Run the command with a proper set.

2545-047 **The set *auth methods to be set* is not valid; Either *k4* or *compat* must be included since there is at least one node in the partition running a PSSP code level prior to 3.2.0.0.**

Explanation: There is at least one node running a PSSP code level less than 3.2.0.0. These earlier code levels require that Kerberos Version 4 authentication be set.

User Response: Enter the command again adding either *k4* or *compat*.

2545-048 **After processing, there are no authentication methods to set. Review previous error messages to determine the cause of the problem.**

Explanation: The program verifies all settings, and those settings which are not valid are removed from the list to be set. If all are removed, there is nothing to set. Previous messages will state which methods were removed.

User Response: Enter the command again with a proper set of methods.

2545-049 ***Authorization method to be set* is not valid for this command because it is not in the list of Authentication Capabilities, which is set by spsetauth -i command.**

Explanation: In order to set an authorization method, the method must be set as a method to used on the node. There must be a one-to-one correlation to Authentication Capabilities and Authorization methods.

User Response: Either add this method to the set for Authentication Capabilities using the **spsetauth -i** command, or enter this command without this method.

2545-050 **Syntax error. Missing -p flag and its parameter.**

Explanation: The -p flag is required.

User Response: Enter the correct syntax for the command.

2545-051 **Kerberos V4 is required to be installed on this machine to select k4 as an authentication method.**

Explanation: The program determined that Kerberos Version 4 was not installed on the local machine. Kerberos Version 4 is required to be installed when selecting k4 as an authentication method.

User Response: Run `setup_authent` to install Kerberos Version 4 on this machine and then issue `spsetauth`.

2545-052 **Syntax error. Duplicate parameters specified.**

Explanation: Multiple occurrences of the same authentication method was specified.

User Response: Enter the correct syntax for the command.

2545-053 **The method "none" cannot be set unless "Remote command method" in the site environment is set to "secrshell".**

Explanation: Setting "none" as a remote command authorization method requires "Remote Command Method" program in the site environment to be set to "secrshell".

User Response: Use either the `smit enter_data` or `spsitenv` commands to modify the "Remote Command Method" (`rcmd_pgm`) to be "secrshell" and run `spsetauth` command.

2545-054 **The method "none" cannot be set unless all nodes in the partition are equal to or greater than PSSP 3.4 software level.**

Explanation: Setting "none" as a remote command authorization method requires all nodes in the partition to be at level PSSP 3.4 or higher.

User Response: Update all nodes in the partition to the proper level and run this command.

2545-060 **Incorrect flag or argument specified on the command line.**

Explanation: An incorrect flag or argument to a flag was specified.

User Response: Refer to the command syntax and enter the command again.

2545-061 **This command is to be executed on a node.**

Explanation: This command will run only on a node. It does not run on the control workstation.

User Response: Run this command on a node.

2545-062 **An error occurred while configuring DCE on the node. The error output from the config.dce command:**

Explanation: There was a problem while configuring DCE on this node. The invoked `config.dce` command was unsuccessful. The output from `config.dce` is printed following this message.

User Response: Examine the output from the `config.dce` command to determine the cause of the problem.

2545-063 **The Node objects lppsource_name attribute was not set in SDR.**

Explanation: This attribute does not have any value, which is required to find the DCE file sets for installing on the node.

User Response: Run the `spsitenv` command to set the name of the install image directory. Run this command again.

2545-064 **Could not mount the LPPSOURCE directory LPPSOURCE directory name. This directory needs to be exported from the control workstation as read-only.**

Explanation: The `upauthfiles` command could not mount the `lppsource` directory.

User Response: Ensure that the directory is exported as read-only to all the nodes and enter this command again.

2545-065 **An error occurred while installing the file sets: DCE file sets.**

Explanation: One or more of the DCE file sets was unsuccessful to install.

User Response: Refer to previous messages about the installation. Correct the problems and enter this command again.

2545-066 An error occurred when attempting to set the authentication methods for the node.

Explanation: An error occurred while running the **chauthent** command.

User Response: Refer to any messages pertaining to the **chauthent** command. Correct the problem and enter the command again.

2545-067 An error occurred while trying to read data from the SDR.

Explanation: An SDR read error occurred.

User Response: Determine the cause of the SDR read error, and enter this command again.

2545-068 An error occurred while starting DCE on the node. The error output from the **start.dce** command:

Explanation: An error occurred while the **start.dce** command was running. The output from the **start.dce** command is printed following this message.

User Response: Examine the output from the **start.dce** command to determine the cause of the problem.

2545-069 Could not enable k5 authentication method since SDR **auth_install** attribute does not contain DCE.

Explanation: The **auth_methods** attribute in the Syspar SDR object includes **k5**, but the **auth_install** attribute does not contain **DCE**. No attempt has been made to enable Kerberos on the node due to this inconsistency.

User Response: Update the **auth_install** SDR attribute to include **DCE**, as desired. Or update the **auth_methods** SDR attribute to remove **k5**, as desired.

2545-070 Command *command name* had messages returned from the command. Check the messages to determine if the command executed successfully. *rc=return code.*

Explanation: The invoked command has returned messages from the command.

User Response: See the logfile of the command for more details, if it exists.

2545-071 An error occurred when attempting to set the trusted services authentication methods for the node.

Explanation: An error occurred while running the **chauthts** command.

User Response: Refer to any messages pertaining to **chauthts**, correct any problems, and run this command.

2545-072 Missing or incomplete DCE filesets in **lppsource** directory: *lppsource* directory.

Explanation: This program tests to ensure that the fileset **dce.cds.ret** is present in the **lppsource** directory. If present, DCE can be installed.

User Response: Ensure all DCE filesets are available in the **lppsource** directory, then enter this command again.

2545-073 "mkitab" returned with *rc=return code*. Entry may not be in **/etc/inittab** correctly.

Explanation: An error occurred when creating the **itab** entry. The most common cause is insufficient authority or a file system problem.

User Response: Review the error. If it is an authority issue, ensure you have proper authority to update **/etc/inittab**. If it is a file system problem, most likely a file system full error, correct the problem and enter this command again.

2545-074 Command *command name* was unsuccessful. Output from command:

Explanation: The specified command was unsuccessful. The output from that command is displayed.

User Response: Review the output from the command to determine the problem and, if possible, correct and enter the program again.

2545-080 DCE is not running. DCE is required in order to create DCE hostnames.

Explanation: DCE is not running on this host. DCE is required for the **updauthfiles** command.

User Response: Ensure that DCE is installed, configured, and running on the control workstation; then enter the **updauthfiles** command.

2545-081 Error reading SDR data. Unable to access SDR to obtain information.

Explanation: An SDR read error occurred.

User Response: Determine the cause of the SDR read error, and enter this command.

2545-082 Error obtaining DCE host principals. Problem using **dcecp**, or DCE access error.

Explanation: A **dcecp** operation on the host catalog entries was unsuccessful. The **dcecp -c host catalog**

command is required to **host** entries from the DCE database.

User Response: Ensure that **dcecp** is installed in: **/opt/dcelocal/bin**. Ensure that DCE is configured properly. Enter the **updauthfiles** command again.

2545-083 **Problems with updating SDR attributes. Review logfile for additional messages.**

Explanation: A call to the **SDRChangeAttrValues** command was unsuccessful. See the log file for details.

User Response: Review the log file to determine which SDR command had a problem. Ensure that the SDR is operational and enter the command.

2545-084 **Invalid flag or argument specified on the command line.**

Explanation: An incorrect flag or argument to a flag was specified.

User Response: Refer to the command syntax and enter the command again.

2545-085 **This command runs only on the control workstation.**

Explanation: This command should not be run from nodes.

User Response: Run the command from the control workstation only.

2545-090 **Unable to create directory *directory name*. No logging will occur.**

Explanation: The command could not create the file.

User Response: Ensure enough space is available in the file system for the file to be created and enough space for data to be logged in this file. Enter this command again.

2545-091 **Unable to open file *logfile name* for writing. Logging of error messages will not occur.**

Explanation: The command could not open the named file for write.

User Response: Ensure the directory and file have write permission. Enter the command after you have corrected the problem.

2545-100 **Could not open file */var/adm/SPlogs/kfserver/regserver.log*. *error text*.**

Explanation: Refer to the error text for an explanation of the cause of the error. A possibility is a full file system.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-101 **Could not create socket. *error text*.**

Explanation: A socket() system call was not successful. The reason is explained by the error text.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-102 **Could not set socket options. *error text*.**

Explanation: A setsockopt() system call was not successful. The reason is explained by the error text.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-103 **Could not bind to port *port number*. *error text*. Trying the next port.**

Explanation: The program could not bind its socket to the indicated port. The program will continue, increasing the port number until an available port is found.

User Response: None.

2545-104 **Could not open file */etc/inetd.conf*. *error text*.**

Explanation: The command needs to update the **/etc/inetd.conf** file, but could not open it. The reason is explained by the error text.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-105 **kfcli service is already defined in */etc/inetd.conf*.**

Explanation: There is already an entry for a service named **kfcli**.

User Response: Remove the existing entry or rename it, then re-issue the command.

2545-106 Could not add kfcli service to */etc/inetd.conf*.

Explanation: The program could not append a line to the file to define the **kfcli** service. There may be a file system problem.

User Response: Follow standard problem resolution procedures.

2545-107 Could not add kfcli service to */etc/services*.

Explanation: The program could not append a line to the file to define the **kfcli** service. There may be a file system problem.

User Response: Follow standard problem resolution procedures.

2545-108 Could not refresh inetd.

Explanation: The program could not refresh the **inetd** daemon after registering the **kfcli** service.

User Response: Follow standard problem resolution procedures.

2545-109 Could not create **SP_ports** object for **kfserver** daemon. **SDRCreateObjects** return code: *return code*.

Explanation: The command could not save the port information in SDR. The SDR command returned the error code indicated.

User Response: Follow standard problem resolution procedures.

2545-110 Required fileset *fileset* is not installed.

Explanation: **setup_CWS** requires specific file sets to be installed. During program processing, the stated file set was not found.

User Response: File sets required may be **bos.net.uucp**, which is needed for systems using kerberos V4, because it contains the **uencode** and **uudecode** code for encoding of **srvtab** files that are sent over the **s1term** line.

2545-111 Was unable to copy *file* to *file/directory*.

Explanation: The AIX **cp** command failed.

User Response: Refer to the message given by the **cp** command and correct the problem. A possible problem is that the receiving directory does not exist. Create the directory and run this command again.

2545-113 **KF_PORT** was not set - trying port **32801**.

Explanation: This command expects the **KF_PORT** environment variable to be set to the port used by the **kfserver** daemon on the control workstation. The default port number is used instead.

User Response: Check to make sure that the port number for the **kfserver** daemon is saved in an **SP_ports** object in the SDR. If not, run the **setup_CWS** command to save it. If the problem persists, follow normal problem reporting procedures.

2545-114 The **KF_PORT** value is not numeric.

Explanation: This command expects the **KF_PORT** environment variable to be set to the port used by the **kfserver** daemon on the control workstation. It was set to a non-numeric value.

User Response: Check to make sure that the port number for the **kfserver** daemon is saved in an **SP_ports** object in the SDR. If not, run the **setup_CWS** command to save it. If the problem persists, follow normal problem reporting procedures.

2545-115 Could not determine IP address of **kfserver** host *hostname*.

Explanation: The command could not obtain the IP address of the **kfserver** host using the **inet_aton** subroutine.

User Response: Check for a networking problem accessing the control workstation from the node. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-116 Could not create socket. *error text*.

Explanation: A **socket()** system call was not successful. The reason is explained by the error text.

User Response: Take corrective action based on the error text and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-117 Could not connect to **kfserver**. *error text*.

Explanation: The command could not establish a socket connection with the **kfserver** daemon on the control workstation.

User Response: Check that the **kfcli** service is defined in the */etc/inetd.conf* and */etc/services* files on the control workstation, and that **inetd** was refreshed successfully. You may find information in the log file */var/adm/SPlugs/kfserver/regserver.log* on the control workstation. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-118 **Could not open keyfile for writing.** *error text.*

Explanation: Refer to the error text for an explanation of the cause of the error. A possible cause is a full file system.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-119 **Could not open /dev/tty0.** *error text.*

Explanation: Refer to the error text for an explanation of the cause of the error. A possible cause is a full file system.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-120 **Could not close socket.** *error text.*

Explanation: Refer to the error text for an explanation of the cause of the error.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-130 **Could not open file /var/adm/SPlogs/kfserver/kfserver.log.PID.** *error text.*

Explanation: Refer to the error text for an explanation of the cause of the error. A possible cause is a full file system.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-131 **getpeername STDIN was unsuccessful.** *error text.*

Explanation: The perl function **getpeername** did not return the socket information for STDIN. The error text gives more information about the error.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-132 **unpack_sockaddr_in was unsuccessful.** *error text.*

Explanation: The perl function **unpack_sockaddr_in** could not process the socket information. The error text gives more information about the error.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-133 **Could not obtain information for node *node number*. SDRGetObjects return code: *error code*.**

Explanation: Check the SDR return code to determine the reason for the failure. The **Node** object associated with the client **Adapter** object could not be obtained.

User Response: Follow normal problem reporting procedures.

2545-134 **The uuencode command was unsuccessful.**

Explanation: The **uuencode** command could not process the specified key file. Refer to the error message explaining the failure.

User Response: Take corrective action based on error information reported by the **uuencode** command. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-135 **The s1term command was unsuccessful.**

Explanation: The **s1term** command did not complete normally. Refer to other error messages explaining the failure.

User Response: Take corrective action based on error information reported by the **s1term** command. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-136 **Could not remove temporary file *file path*.**

Explanation: The command could not remove the uuencoded key file. If there are no other error messages in the **kfserver.log.PID** file, then the keyfile was successfully transmitted to the node.

User Response: Check for system or file system problems. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-137 **inet_ntoa was unsuccessful.** *error text.*

Explanation: The perl function `inet_ntoa` could not process the client IP address information. The error text gives more information about the error.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-138 **Client address IP address was not found. SDRGetObjects return code:** *error code.*

Explanation: Check the SDR return code to determine the reason for the failure. The `get_keyfiles` command may have been invoked from a host that is not a node on this SP system.

User Response: If the specified node does not exist, re-issue the `get_keyfiles` command, specifying a correct node number. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-140 **Could not open file** */var/adm/SPlogs/get_keyfiles/get_keyfiles.log* **error text.**

Explanation: Refer to the error text for an explanation of the cause of the error. A possible cause is a full file system.

User Response: Take corrective action based on the error text, and re-issue the command after you have corrected the problem. If you cannot correct it, follow standard problem reporting procedures.

2545-141 **Incorrect number of operands.**

Explanation: This command requires two operands: the name of the file to obtain from the `kfserver`, and the hostname on which the `kfserver` runs.

User Response: Re-issue the command, specifying the required operands.

2545-142 **The keyfile name operand is not valid.**

Explanation: The name of the keyfile to be obtained from the `kfserver` has a format that is not valid.

User Response: Re-issue the command, specifying the name of a keyfile.

2545-143 **The server name operand is not valid.**

Explanation: The hostname of the `kfserver` has a format that is not valid.

User Response: Re-issue the command, specifying a valid hostname.

2545-144 **Could not remove the cons (getty) entry from inittab.**

Explanation: The command could not temporarily remove the `/dev/tty0` entry named `cons` from the `inittab`. This is necessary to allow the `get_keyfiles` command to receive the keyfile over that interface.

User Response: Check for system and file system problems. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-145 **Could not stop the cons (getty) process.**

Explanation: The command could terminate the `getty` process using `/dev/tty0`. This is necessary to allow the `get_keyfiles` command to receive the keyfile over that interface.

User Response: Check for system problems. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-146 **Could not obtain node number.**

Explanation: The `node_number` command did not complete successfully, so this command cannot identify itself to the `kfserver`.

User Response: Follow normal problem reporting procedures.

2545-147 **This command is valid only on SP nodes.**

Explanation: `get_keyfiles` is designed to retrieve an SP node's keyfiles from the `kfserver` daemon on the control workstation. It is not valid when issued on the control workstation itself, or on other RS/6000 hosts that are not SP nodes.

User Response: None.

2545-149 **The uuencode command was unsuccessful.**

Explanation: The `uuencode` command could not process the specified key file. Refer to the error message explaining the failure.

User Response: Take corrective action based on error information reported by the `uuencode` command. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-150 **Could not remove temporary file** *file path.*

Explanation: The command could not remove the uuencoded key file. If there are no other error messages in the `get_keyfiles.log` file, then the keyfile was successfully received on the node.

User Response: Check for system or file system problems. If you cannot resolve the problem, follow normal problem reporting procedures.

2545-151 **Could not add the cons (getty) entry to inittab.**

Explanation: The command could not replace the **inittab** entry that it temporarily removed.

User Response: Use the **s1term** command on the control workstation to login to the node and manually replace the **inittab** entry.

Chapter 41. 2548 - SP switch advanced diagnostic messages

2548-001 **Switch wrap test, testing link between *Frame-Switch-BulkHead-Jack1* and *Frame-Switch-BulkHead-Jack2*.**

Explanation: The test is verifying the link between the specified components.

User Response: None.

2548-002 **Run Efence for node *node-number* (*frame-node*) and restart the test.**

Explanation: The node is not currently fenced. In order to test a node link, the node must be fenced.

User Response: Issue the **Efence** command for the node specified and restart the test.

2548-003 **Port *port-number* on device *switch-number* (*Frame-Switch-BulkHead-Jack*) cannot be tested. Run adapter diagnostics on node *node-number* (*frame-node*). Make sure that the switch cable is connected, press OK when ready.**

Explanation: The switch side of the node link cannot be tested. In order to test the node side of the link, invoke adapter diagnostics.

User Response: Run adapter diagnostics.

2548-004 **The cable is longer than 10 meters. Unable to test the cable.**

Explanation: The test cannot verify a cable longer than 10 meters.

User Response: None.

2548-005 **Disconnect the cable from *Frame-Switch-BulkHead-Jack* (port *port-number* of device *switch-number*), and plug the wrap plug assembly. Press OK when ready.**

Explanation: The user is requested to install the wrap assembly.

User Response: Disconnect the cable from the specified location and install the wrap plug assembly onto the port.

2548-006 **The wrap plug assembly is not installed in the right place. Reinstall wrap plug assembly on the far end of the cable connected to *jack_number*. Press OK when ready.**

Explanation: The user is requested to install the wrap assembly.

User Response: Follow the instructions given above and press OK when ready.

2548-007 **The wrap plug assembly is not installed in the right place. Reinstall wrap plug assembly in *Frame-Switch-BulkHead-Jack*. Press OK when ready.**

Explanation: The user installed the wrap plug assembly in the wrong location.

User Response: Install the wrap plug assembly in the correct location as explained in the previous message.

2548-008 **Operation was cancelled by user. Other testing continues...**

Explanation: The user cancelled the operation.

User Response: None.

2548-009 **Switch port testing completed. Please reconnect the switch cable. Press OK when ready.**

Explanation: The testing of the switch side of the node link is complete. Reconnect the cable so that you may invoke the adapter diagnostics.

User Response: Reconnect the switch cable to its original location.

2548-010 **Link test completed, no problems found. Reconnect the original cable between jacks *Frame-Switch-BulkHead-Jack1* and *Frame-Switch-BulkHead-Jack2*. Press OK when ready.**

Explanation: Link test completed. Reconnect the cable as specified so that it can be restored into the network.

User Response: Reconnect the original cable as specified.

2548-011 **Error Status packet received during the test. Test data packet received OK.**

Explanation: While executing the test, a data packet was received with the required content, but an Error

Status packet was also received from the tested switch chip. The result of the switch port test is failure.

User Response: None.

2548-012 Checking for additional errors...

Explanation: While executing the test, a data packet was received with the required content. The test will wait for a predefined time period to see if any Error Status packets arrive.

User Response: None.

2548-013 Failed. An Error Status packet was received.

Explanation: While executing the test, an Error Status packet was received from the tested switch chip. The result of the switch port test is failure.

User Response: None.

2548-014 Failed. Checking for additional errors...

Explanation: While executing the test, a data packet was received with incorrect content. The test will wait for a predefined time period to see if any Error Status packets arrive. The result of the switch port test is failure.

User Response: None.

2548-015 Status: port *port-number1* of device *switch-number1* (Frame-Switch-BulkHead-Jack1) - *status1*, port *port-number2* of device *switch-number2* (Frame-Switch-BulkHead-Jack2) - *status2*, cable - *cable-status*.

Explanation: This is the status of the link components after testing.

User Response: None.

2548-016 Switch wrap test completed.

Explanation: The switch wrap test is complete.

User Response: None.

2548-017 User has aborted testing. Exiting test...

Explanation: The test is exiting because the user has requested it to terminate.

User Response: None.

2548-018 Test passed.

Explanation: No Error Status packets arrived after the data packet returned with the required data. The test passed.

User Response: None.

2548-019 An Error Status packet has been received from one of the switches participating in the round trip route. Port cannot be tested.

Explanation: An Error Status packet was received from one of the switches participating in the round trip route. The functionality of the port under test cannot be determined.

User Response: None.

2548-020 The wrap test data packet did not return. An adapter error has been detected. Port cannot be tested.

Explanation: An adapter error has been reported. The port will not be tested.

User Response: None.

2548-021 Wrong data returned.

Explanation: While executing the test, the data packet returned containing a corrupted data pattern.

User Response: None.

2548-022 An Error Status packet from *switch-chip* has been received.

Explanation: An Error Status packet arrived from the specified switch chip.

User Response: None.

2548-023 There is a possibility that the wrong cable was disconnected.

Explanation: The user disconnected the wrong cable when requested to install the wrap plug.

User Response: Recheck the jack number to be tested.

2548-024 Failed. The wrap test data packet did not return. No Error Status packets were received from the tested switch. Failure.

Explanation: While executing the test, the wrap test data packet did not return. Also, no Error Status packets from the switch under test were received. Therefore, the result of the port test is failure.

User Response: None.

2548-025 Failed to restore the link.

Explanation: The attempt to restore the link failed.

User Response: Record the above information and contact the IBM Support Center.

2548-026 Connect the original cable to the port *port-number* of device *switch-number*, (*Frame-Switch-BulkHead-Jack*) and put the wrap plug on the far end of the cable. Press OK when ready.

Explanation: The test requests that the user perform necessary preparation for testing the cable.

User Response: Connect the original cable to the specified location and put the wrap plug on the far end of the cable.

2548-027 The link cannot be restored.

Explanation: The link cannot be restored because at least one link component failed.

User Response: None.

2548-028 Unable to test all link components. Reconnect the switch cable between jacks *Frame-Switch-BulkHead-Jack1* and *Frame-Switch-BulkHead-Jack2*. Press OK when ready.

Explanation: Some link components could not be tested. The test will attempt to restore the link into the network.

User Response: Reconnect the switch cable between the specified jacks and then Press OK.

2548-031 Timeout occurred while waiting for the input. The test will be aborted.

Explanation: The user did not press OK within 30 minutes. The test will exit.

User Response: None.

2548-033 There is a possibility that the wrong end of the cable was disconnected. The test results could be affected.

Explanation: There is a possibility that the wrong end of the cable was disconnected. This notice follows a previous warning, 2548-007. The test will continue but the test results could be affected.

User Response: None.

2548-034 Usage: wrap_test {[-j *Frame-Switch-BulkHead-Jack*] | [-s *switch_number* -p *port*]} [-c *cable_length*] [-h].

Explanation: The wrap test script received incorrect input.

User Response: Follow the command usage to invoke the wrap test.

2548-035 Test is about to start. Please wait...

Explanation: The test is about to start. The GUI will be displayed shortly.

User Response: None.

2548-036 Run Switch Adapter Diagnostic on node *node-number* (*frame-node*).

Explanation: The test of the switch side of the link is finished. Run adapter diagnostics to test the node side of the link.

User Response: Run Switch Adapter Diagnostics on the specified node.

2548-037 Port *port_number* on device *switch_chip_number* (*jack_number*) cannot be tested. Run Adapter diagnostic on the connected node. Make sure that the switch cable is connected, press OK when ready.

Explanation: The specified port on the specified device cannot be tested.

User Response: Follow the instructions give above and press OK when ready.

2548-038 Switch wrap test, testing link connected to *jack_number*.

Explanation: Switch wrap test in progress.

User Response: None.

2548-039 Following is the status of the link components after testing: port *port_number* of switch *switch_chip_number* (*jack_number*) - *status*.

Explanation: Refer to the status supplied above.

User Response: None.

2548-040 Following is the status of the link components after testing: port *port_number* of switch *switch_chip_number* (*jack_number*) - status, cable - status.

Explanation: Refer to the status supplied above.

User Response: None.

2548-041 Following is the status of the link components after testing: port *port_number* of switch *switch_chip_number* (*jack_number*) - status, port *port_number* of switch *switch_chip_number* (*jack_number*) - status, cable - status.

Explanation: Refer to the status supplied above.

User Response: None.

2548-042 Disconnect the original cable, pull out the interposer from *jack_number* (port *port_number* of device *switch_chip_number*), and install the interposer wrap card (P/N 12K0486). Press OK when ready.

Explanation: This message contains instructions for running the wrap test.

User Response: Follow the instructions given above. Press OK when ready.

2548-043 Remove the wrap assembly, pull out the original interposer from *jack_number* (port *port_number* of device *switch_chip_number*), and install the interposer wrap card (P/N 12K0486). Press OK when ready.

Explanation: This message contains instructions for running the wrap test.

User Response: Follow the instructions given above. Press OK when ready.

2548-044 The interposer wrap card is not installed in the right place. Reinstall interposer in *jack_number*. Press OK when ready.

Explanation: The interposer wrap card is not installed properly.

User Response: Reinstall the interposer wrap card in the correct location, and press OK when ready.

2548-045 Unable to test all link components. Reconnect the switch interposer cards and the original switch cable between jacks *jack_number* and *jack_number*. Press OK when ready.

Explanation: Cables are not correct for this test.

User Response: Correct the cables using the instructions provided above and press OK when ready.

2548-046 Switch port testing completed. Please reconnect the switch interposer card and the original switch cable. Press OK when ready.

Explanation: The test has finished. Reconnect the switch interposer card and original switch cable.

User Response: Replace the cables using the instructions provided above.

2548-047 The test failed to detect the wrap plug connector on the far end of the cable connected to *jack_number*. There is a possibility that the connector is not installed properly. Please reinstall the wrap plug connector. Press OK when ready.

Explanation: The cable setup for the wrap test is not correct. Refer to the instructions given above.

User Response: Correct the problem and press OK when ready.

2548-075 Usage: `cable_test [-p { 0 | 1 }] [-d] [-f file_name] [-F file_name] [{ -a | -n | -s }] [-u] [s ch1 cp1 s ch2 cp2 E01-S17-BG-Jxx to E02-S17-BH-Jyy] [s ch1 cp1 col snn port E01-S17-BG-Jxx to E01-Nyy]`

Explanation: This is the syntax of the `cable_test` command

User Response: None.

2548-076 Extracting connection information from the topology file *topology_file_name*.

Explanation: Information is being retrieved from the file specified above.

User Response: None.

2548-077 Testing started at *time_of_day*.

Explanation: The testing began at the time specified above.

User Response: None.

2548-078 Testing a node-to-switch connection.

Explanation: A connection between a node and a switch is being tested.

User Response: None.

2548-079 Using the topology file from switch plane 0, and correcting the frame numbers for this plane.

Explanation: Information from the topology file is being used to correct the frame numbers of this plane.

User Response: None.

2548-080 Primary node is: *node_name*.

Explanation: This message indicates the name of the primary node.

User Response: None.

2548-081 **WARNING: This test will affect the switch network protocols on plane *switch_plane_number*! You may need to restart (Estart) the plane once the test completes. Do you wish to continue? (y/n).**

Explanation: This message warns of the possible need to restart the plane once the test is complete.

User Response: Answer the question with either **y** for Yes or **n** for No.

2548-082 Continuing test...

Explanation: Continuing test..

User Response: None.

2548-083 Retrieving the *topology_filename* from primary node *node_number*.

Explanation: The topology file specified above is being retrieved from the node specified above.

User Response: None.

2548-084 Number of connections to be tested: *number*.

Explanation: This message indicates how many connections are to be tested.

User Response: None.

2548-085 Estimated run-time for *number* connections is *minutes* minutes and *seconds* seconds.

Explanation: This message estimates the run-time for the specified number of connections.

User Response: None.

2548-086 Testing connection from frame *frame_number* slot *slot_number* chip *chip port1* *port_number* (jack *jack_number*) to frame *frame_number* slot *slot_number* chip *chip port* *port_number* (jack *jack_number*).

Explanation: Test in progress.

User Response: None.

2548-087 Testing a switch-to-switch connection.

Explanation: A connection between two switch is being tested.

User Response: None.

2548-088 Testing connection from frame *frame_number* slot *slot_number* chip *chip port1* *port_number* (jack *jack_number*) to frame *frame_number* node *node_number* (*snn* *switch_node_number*).

Explanation: The connection specified above is being tested.

User Response: None.

2548-089 Starting iteration at *time_of_day*.

Explanation: This message indicates when the iteration was started.

User Response: None.

2548-090 Issuing the following cmd: */usr/bin/rcp node_name node_name: file_name*.

Explanation: This above command is being run.

User Response: None.

2548-091 Setting the node *node_name* *css0/port0* to wrap mode.

Explanation: Wrap mode has been set as specified above.

User Response: None.

2548-092 Disabling the links in frame *frame_number* slot *slot_number* chip *switch_chip_number* port *port_number*.

Explanation: The above links are being disabled.

User Response: None.

2548-093 **Writing to frame:** *frame_number* **slot:** *slot_number* **chip:** *switch_chip_number*
reg: *register_number* **data:** *data*.

Explanation: The data specified above is being written.

User Response: None.

2548-094 **Checking for errors.**

Explanation: Checking for errors.

User Response: None.

2548-095 **Restoring the links in frame**
frame_number **slot** *slot_number* **chip**
switch_chip_number **port** *port_number*.

Explanation: At above links are being restored.

User Response: None.

2548-096 **Replug the cable into the interposer on**
Frame *frame_number* **Slot** *slot_number*
Jack *jack_number*.

Explanation: This message contains instructions.

User Response: Follow the above instructions.

2548-097 **Replug the interposer into the Switch**
on Frame *frame_number* **Slot** *slot_number*
Jack *jack_number*.

Explanation: This message contains instructions.

User Response: Follow the above instructions.

2548-098 **Frame** *frame_number* **Slot** *slot_number*
Jack *jack_number* **has no problems.**

Explanation: The test did not detect any problems.

User Response: None.

2548-099 **Taking the node** *node_number*
css{0|1}/port0 out of wrap mode.

Explanation: The node specified above is being removed from wrap mode.

User Response: None.

2548-100 **Test iteration ended at** *time_of_day*.

Explanation: This message indicates what time the iteration completed.

User Response: None.

2548-101 **Number of interposers requiring**
reseating: *number_of_interposers*.

Explanation: This message indicates how many interposers require resetting.

User Response: None.

2548-102 **Action on interposers requiring**
reseating: 1. Replug the interposer on
connection listed 2. If this has already
been done, replace the interposer.
Finally, if all else has been done, call
your next level of support.

Explanation: This message contains instructions.

User Response: Follow the above instructions. If you cannot fix the problem, record the above information and contact IBM hardware support.

2548-103 **Whenever unplugging an interposer,**
please be careful in removing the
interposer tab cover. Assure that no
interposer tabs were accidentally
disengaged when pulling the cover.

Explanation: This message contains instructions.

User Response: Follow the above instructions.

2548-104 **Number of cables requiring reseating:**
number_of_cables.

Explanation: This message indicates how many cables require resetting.

User Response: None.

2548-105 **Action on cables requiring reseating:**
1. Check both ends of the cable for
proper seating and bent pins. If a bent
pin is found also check the receiving
connector for damage. 2. If this has
already been done, replace the cable.
3. If the cable has been replugged and
replaced, check for damage to the
connectors. 4. Finally, if all else has
been done, call your next level of
support.

Explanation: This message contains instructions.

User Response: Follow the above instructions. If this does not fix the problem, record the above information and contact IBM hardware support.

2548-106 **cable_test testing has ended at**
time_of_day.

Explanation: This message indicates at what time the test completed.

User Response: None.

2548-107 Elapsed time: *hours:minutes:seconds*
(*seconds seconds*).

Explanation: This message indicates the elapsed time of the test.

User Response: None.

2548-108 After correcting the problems listed in file *file_name*.

Explanation:

User Response:

2548-109 Do you wish to continue? (y/n)

Explanation: This message asks if you wish to continue.

User Response: Reply with **y** for Yes or **n** for No.

2548-110 Input expected.top file name is *topology_filename*.

Explanation: The name entered by the user is specified above.

User Response: None.

2548-111 Creating a topology file. Please wait...

Explanation: The above file is being created.

User Response: None.

2548-112 Do you wish to view the list of problems now? [y/n]

Explanation: This message asks if you wish to view the list of problems.

User Response: Reply with **y** for Yes or **n** for No.

2548-160 Nodes detected as bad *node-numbers-list*.

Explanation: The specified nodes were detected as bad by the last iteration of the test.

User Response: None.

2548-161 No problems were found.

Explanation: The test did not find any malfunctioning node among those specified by the user. This means either that there is no malfunctioning node in the system, or that a malfunctioning node exists, but it was not specified as allowed to the test.

User Response: None.

2548-165 Primary node failed to receive result statistics (timeout).

Explanation: Warning: Some test assistant nodes did not send testing statistics to the primary node within the timeout period. The test will ignore the missing statistics and proceed with statistical analysis.

User Response: None.

2548-176 Failed to initialize all senders (timeout).

Explanation: The primary node failed to initialize all specified senders. The test will proceed with initialized assistance.

User Response: None.

2548-181 Node *node-number*, sent: *number*, received: *number*, corrupted: *number*.

Explanation: The test displays statistics of the detected malfunctioning node. Statistics include number of sent, received and corrupted packets.

User Response: None.

2548-250 Port *port-number* of the switch chip is disabled; will not be tested.

Explanation: Warning: corresponding port of the switch chip is not connected to any device and will not be tested.

User Response: None.

2548-253 Invalid node specification: *node-number*.

Explanation: The test failed to interpret the node specification. The parameter will be ignored.

User Response: Check correctness of the input parameters.

2548-255 Failed to select assistant for port *port-number*. The iteration is cancelled.

Explanation: The test failed to select an assistant node for one of these reasons: there is no node connected to this port, nodes connected to this port are not allowed for running the test, nodes connected to this port have previously failed.

User Response: Select other allowed nodes and restart the test.

2548-261 Scanning switch chip *switch-number*: error occurred, trying to recover...

Explanation: During the scan, the switch chip reported a problem. The test is going to recover from the error.

User Response: None.

2548-263 **Unsolicited Error/Status packet received from switch chip**
switch-number; trying to recover...

Explanation: During the test, the switch chip generated an Error/Status packet and sent it to the primary node.

User Response: None.

2548-271 **Abort test has been issued by the user. Exiting the test.**

Explanation: The user issued a command to terminate the test. The test will exit.

User Response: None.

2548-272 **Model results summary: Switch chip errors: *error-num1* on the tested chip, *error-num2* total.**

Explanation: This is a summary of the test execution. During the test the indicated number of errors were received from the switch chip under test. Also, the indicated number of errors were received from all switch chips that were used in the test.

User Response: None.

2548-273 **Model results summary: HAL packets: sent *sent-num*, lost *lost-num*.**

Explanation: This is a summary of the test execution. During the test, the indicated number of HAL (Hardware Abstraction Layer) data packets were sent. Among them, the indicated number of data packets were lost due to switch network problems.

User Response: If the number of lost packets is large, record the above information and contact the IBM Support Center.

2548-274 *iteration-id:* **HAL packets: sent *sent-num*, lost *lost-num*. Switch chip failure count: *failure-num*.**

Explanation: These are the results of the specified test iteration. During this iteration, the indicated number of packets were sent. Among them, the indicated number of packets were lost due to switch network problems. The indicated number of errors from switch chips were also reported.

User Response: If the number of lost packets is large, record the above information and contact the IBM Support Center.

2548-275 *iteration-id:* **HAL packets: sent N/A, lost N/A. Switch chip failure count: N/A.**

Explanation: The test was unable to collect information about the specified iteration.

User Response: None.

2548-421 **Loading the *library-name* library.**

Explanation: The SP Diagnostics Library is being loaded.

User Response: None.

2548-422 **The *library-name* library unloaded.**

Explanation: The specified library is being unloaded.

User Response: None.

2548-423 **The SP Diagnostic is exiting.**

Explanation: The SP Diagnostic is exiting.

User Response: None.

2548-451 **Starting SP Switch Diagnostic Framework.**

Explanation: The SP Switch Diagnostic Framework has been started.

User Response: None.

2548-452 **New model was initialized successfully. modelID = *model-number*.**

Explanation: The SP Switch Diagnostic Framework created a new test model. The modelID is specified.

User Response: None.

2548-455 **Going to terminate SP Switch Diagnostic Framework.**

Explanation: The test has ended. The SP Switch Diagnostic Framework exits.

User Response: None.

2548-456 **SP Switch Diagnostic Framework terminated.**

Explanation: The test has ended. The SP Switch Diagnostic Framework exits.

User Response: None.

2548-461 Model has ended.

Explanation: The current model ended. The SP Switch Diagnostic Framework will create a new model according to the remaining time left for test execution.

User Response: None.

2548-465 Available model names
model-names-list.

Explanation: In case the user specified a wrong model name, the available model names are listed.

User Response: Select a model name from the given list and run the test again.

2548-613 Connecting to existing GUI (if you wish to open a new GUI, close or kill the old one).

Explanation: An old GUI is already open somewhere. The test will try to connect to it and display the messages there.

User Response: If you wish for a new GUI to be opened on your screen, issue the **kill** command on the old GUI's process.

Chapter 42. 2549 - SP switch advanced diagnostic messages

2549-001 Wrap test initialization failed.

Explanation: The wrap test failed to initialize.

User Response: Reinstall the switch diagnostics.

2549-002 Unable to parse Test Definition File (TDF).

Explanation: The wrap test was unable to parse one of its data files.

User Response: Check connectivity to the control workstation. Check the status of the control workstation. Check the software installation.

2549-003 Memory allocation failed.

Explanation: The wrap test failed to allocate needed memory.

User Response: Record the above information and contact the IBM Support Center.

2549-004 Unable to disable port *port-number* on device *device-number* (*Frame-Switch-BulkHead-Jack*).

Explanation: The test failed to disable the specified port.

User Response: None.

2549-005 Unable to test port *port-number* on the device *device-number* (*Frame-Switch-BulkHead-Jack*). The round trip route is too long.

Explanation: The route back and forth from the primary node to the port under test is longer than 14 hops.

User Response: None.

2549-006 Unable to test link.

Explanation: The link cannot be tested.

User Response: None.

2549-007 Cannot enable port *port-number* on device *device-number* (*Frame-Switch-BulkHead-Jack*).

Explanation: The specified port cannot be enabled.

User Response: None.

2549-008 There is a backup node connected by the link under test. Cannot proceed...

Explanation: A backup node is connected by the link under test. The test will exit.

User Response: Choose another node to be the backup node. Use the **Eprimary** and **Estart** commands to make this node the backup node. When this is successful, restart the test.

2549-009 Unexpected input.

Explanation: The test unexpectedly received a request from the user.

User Response: None.

2549-010 The primary node personality changed. Cannot proceed with the test.

Explanation: Since the primary node personality has changed, the test will exit.

User Response: Restart the test.

2549-011 Offline request received. Test cannot continue.

Explanation: An Offline request was received. The test will exit.

User Response: Restart the test.

2549-012 There is a primary node connected by the link under test. Cannot proceed...

Explanation: A primary node is connected by the link under test. The test will exit.

User Response: Choose another node to be the primary node. Use the **Eprimary** and **Estart** commands to make this node the primary. When this is successful, restart the test.

2549-014 You have specified an invalid number of arguments.

Explanation: The user specified an invalid number of arguments.

User Response: Follow the usage guidelines and restart the test.

2549-015 Invalid combination of command arguments.

Explanation: The user specified an incorrect combination of command arguments.

User Response: Follow the usage guidelines and restart the test.

2549-016 Invalid parameters specified.

Explanation: The user specified incorrect parameters in the command arguments.

User Response: Follow the usage guidelines and restart the test.

2549-017 There is a clock on this cable. Cannot run the test.

Explanation: A clock is running through the requested cable.

User Response: Change the link that the clock passes through and restart the test.

2549-018 No active primary node found. Cannot run the test. Run Estart.

Explanation: The system does not have an active primary node.

User Response: Issue the **Estart** command to designate a primary node.

2549-019 A running diagnostic process has been detected in the system [process-name process-id]. If currently another diagnostic application is running, terminate it. Otherwise, kill process-name and Java UIMain processes. Restart the test.

Explanation: Another diagnostics application is either running or was previously terminated abnormally.

User Response: If another diagnostic application is currently running, terminate it. Otherwise, kill the specified process and Java UIMain processes. Restart the test.

2549-021 PSSP 3.1.1 is not installed on primary node. Cannot run the test. Use Eprimary to choose a primary node which uses PSSP 3.1.1 and then Estart.

Explanation: The PSSP version installed on the primary node is earlier than PSSP 3.1.1. The test requires PSSP version 3.1.1 or higher.

User Response: Assign another primary node with the correct PSSP level and restart the test.

2549-022 Could not find node: node-specifier.

Explanation: The node could not be found.

User Response: None.

2549-023 Problem with node node-specifier, cannot use it.

Explanation: A problem was found with the node, the test cannot use it.

User Response: None.

2549-024 Failed executing command-name. Check that the file is installed and file permissions allow executing.

Explanation: The test failed to execute the command.

User Response: Check that the file is installed and that the file permissions allow execution.

2549-025 Cannot run the GUI because Java.rte.bin is not installed. Install Java.rte.bin and restart the test.

Explanation: The test failed to load the GUI because a necessary component was not installed.

User Response: To run the test with GUI support, install the missing component (**Java.rte.bin**) and restart the test. To run the test without GUI support, restart the test without the **-g** flag.

2549-026 Internal error in building test routes to port port_number on the device switch_chip_number (jack_number).

Explanation: Test failed to build one of test routes.

User Response: Issue the **Estart** command and rerun the test.

2549-027 PSSP 3.1.1 is not installed on primary node. Cannot run the test. Use Eprimary to choose primary node which use PSSP 3.1.1 and then Estart.

Explanation: The PSSP version installed on the Primary node is earlier than 3.1.1. The Warp Test can only run on nodes containing PSSP 3.1.1 or higher.

User Response: Change the Primary node or upgrade PSSP software.

2549-028 PSSP 3.1.1 is not installed on primary node. Cannot run the test. Use Eprimary to choose primary node which use PSSP 3.1.1 and then Estart.

Explanation: The PSSP version installed on the Primary node is earlier than 3.1.1. The Warp Test can only run on nodes containing PSSP 3.1.1 or higher.

User Response: Change the Primary node or upgrade PSSP software.

2549-029 **Unknown switch_type** *switch_type*.

Explanation: Known switch types are SP Switch and SP Switch2

User Response: Record the above information and contact the IBM Support Center.

2549-030 **Can not ping the primary node:**
node_name.

Explanation: The primary is not available.

User Response: Record the above information and contact the IBM Support Center.

2549-031 **The fault-service daemon is not running on node:** *Primary node name*.

Explanation: The fault service daemon is not running on the primary node.

User Response: Record the above information and contact the IBM Support Center.

2549-032 **Cannot find file** *file_name* **in directory**
path. **Cannot run Wrap Test.**

Explanation: Java class file cannot be found in the specified directory. Cannot run GUI.

User Response: Check that all files are installed.

2549-075 **cable_test got siginit.**

Explanation: The cable test received a **siginit** signal.

User Response: None.

2549-076 **cable_test got a signal to quit.**

Explanation: The cable test received a signal to quit.

User Response: None.

2549-077 **Command not valid on switchless system.**

Explanation: The command you issued must be run on a system with an switch.

User Response: Run the command on a system with a switch.

2549-078 **Command is not valid on a SP Switch system.**

Explanation: The command you issued must not be run on a system with a switch.

User Response: Run the command on a system without a switch.

2549-079 *node_name* **is an unknown node and therefore cannot be debugged.**

Explanation: The specified node is unknown, and cannot be analyzed.

User Response: Determine why the node is unknown, or reissue the test using a different node name.

2549-080 **Topology file not found.**

Explanation: The topology file is missing.

User Response: Replace or re-create the topology file.

2549-081 **Invalid switch plane number**
switch_plane_number **specified.**

Explanation: The switch plane number specified is not correct. Valid values are 0 and 1.

User Response: Reissue the command with a correct switch plane number.

2549-082 **Invalid option specified.**

Explanation: You specified an incorrect option.

User Response: Refer to the man page for the command, and retry it using correct options.

2549-083 **Cannot retrieve primary node information from the System Data Repository.**

Explanation: Primary node information cannot be retrieved from the SDR.

User Response: Investigate the missing information or possible SDR failure. If the problem persists, record the above information and contact the IBM Support Center.

2549-084 **Invalid reply... exiting**

Explanation: You entered an invalid reply.

User Response: Restart the test and reply to all prompts with proper syntax.

2549-085 **Cannot ping the primary node, rc =**
return_code.

Explanation: The primary node could not be reached via the **ping** command.

User Response: Investigate why the primary node cannot be reached.

2549-086 Unable to retrieve a current topology file

Explanation: The current topology file is missing or has incorrect permissions.

User Response: Replace or re-create the file and retry the test.

2549-087 Unable to retrieve the topology file from the primary node *node_name*.

Explanation: The topology file on the primary node is missing or inaccessible.

User Response: Replace or re-create the file and retry the test.

2549-088 Unable to retrieve node information from the System Data Repository.

Explanation: Node information is either missing from the SDR or inaccessible.

User Response: Investigate the missing information or possible SDR failure. If the problem persists, record the above information and contact the IBM Support Center.

2549-089 Can not ping the node *node_name*.

Explanation: The specified node could not be reached via the **ping** command.

User Response: Investigate why the node cannot be reached.

2549-090 Unable to execute test.

Explanation: The test could not be run.

User Response: Record the above information and contact the IBM Support Center.

2549-091 Can not run this test against the active primary!

Explanation: This test cannot be run against the active primary node.

User Response: Change which node is the primary using the **Eprimary** and **Estart** commands, or invoke the test specifying another node.

2549-092 Can not execute test on node *node_name*.

Explanation: The test cannot be run on this node.

User Response: None.

2549-093 Unable to copy the test executable to the node *node_name*.

Explanation: A copy of the test executable to the specified node failed.

User Response: Investigate reasons for the failure, such as incorrect permissions, IP communication failures, or disk space shortage. If the problem persists, record the above information and contact the IBM Support Center.

2549-094 Unable to make the test script executable on node *node_name*.

Explanation: A failure occurred when trying to make the executable for the test.

User Response: Investigate possible problems such as incorrect permissions, disk space shortage and others. If the problem persists, record the above information and contact the IBM Support Center.

2549-095 ERROR: *command* remote shell command failed.

Explanation: The specified remote shell command failed.

User Response: Investigate possible reasons for the failure. If the problem persists, record the above information and contact the IBM Support Center.

2549-096 The interposer under test has detected a cable error.

Explanation: The interposer under test has detected a cable error.

User Response: None.

2549-097 The switch chip is detecting a local link error.

Explanation: The switch chip is detecting a local link error.

User Response: None.

2549-098 Unable to retrieve Switch information from the SDR.

Explanation: Either there is an SDR failure, or switch information is not in the SDR.

User Response: See if there is an SDR failure. If not, correct the switch information in the SDR.

2549-099 Unable to retrieve Frame information from the SDR.

Explanation: Either there is an SDR failure, or Frame information is not in the SDR.

User Response: See if there is an SDR failure. If not, correct the Frame information in the SDR.

2549-100 Unable to retrieve Node information from the SDR.

Explanation: Either there is an SDR failure, or Node information is not in the SDR.

User Response: See if there is an SDR failure. If not, correct the Node information in the SDR.

2549-101 Unable to open a s1term with frame
frame_number slot slot_number chip
chip_number port port_number.

Explanation: The **s1term** command failed.

User Response: Investigate the reason for the failure.

2549-151 Node *node-number* failed to open HAL.

Explanation: The test failed to open the HAL (Hardware Abstraction Layer) interface on the node.

User Response: Record the above information and contact the IBM Support Center.

2549-153 Sender failed to write packet to HAL.

Explanation: The sender experienced a permanent failure while writing packets to the HAL. Possible reasons are:

1. The network is full because the destination node failed and stopped receiving packets.
2. HAL, Device Driver, microcode problems.
3. Hardware problems on the node link.

User Response: Record the above information and contact the IBM Support Center.

2549-155 Node *node-number* failed to close HAL.

Explanation: During test execution, internal HAL structures were corrupted and the test failed to close the HAL window.

User Response: Record the above information and contact the IBM Support Center.

2549-158 The packet was received from node
node-number **which is not a sender**
node.

Explanation: The receiver received a packet with unexpected sender node identification.

User Response: None.

2549-161 Fatal adapter error: clock outage, going to shutdown.

Explanation: A switch adapter link outage occurred.

User Response: Examine the system error log of the reporting node for more details.

2549-162 Fatal adapter error: permanent error, going to shutdown.

Explanation: A switch adapter permanent error occurred.

User Response: Examine the system error log on the reporting node for more details.

2549-163 Fatal adapter error: failed to recover, going to shutdown.

Explanation: The switch adapter error recovery failed.

User Response: Examine the system error log on the reporting node for more details.

2549-164 Personality changed to SECONDARY. Cannot continue.

Explanation: The primary node resigned the switch primary role. The test cannot continue.

User Response: Restart the test.

2549-165 Received NODE_INIT packet. Cannot continue.

Explanation: The **Estart** command is being executed. The test will exit.

User Response: Restart the test.

2549-166 Primary node cannot be receiver.

Explanation: The primary node was specified as the receiver.

User Response: Select another receiver node, or change the primary node and restart the test.

2549-167 Backup node cannot be receiver.

Explanation: The backup node was specified as the receiver.

User Response: Select another receiver node, or change the backup node and restart the test.

2549-168 Forbidden node cannot be receiver.

Explanation: The receiver node was specified in the list of forbidden nodes.

User Response: Remove the receiver node from the forbidden nodes list, or select another receiver node and restart the test.

2549-169 Failed to fence assistant nodes.

Explanation: The test failed to fence the assistant nodes. The test will exit.

At the beginning of the test, the primary node tries to fence test assistant nodes in order to disable network access to applications running on these nodes.

User Response: Issue the **Estart** command and then restart the test.

2549-170 Unsolicited Error/Status packet from switch chip *switch-chip-number*: error recovery failed.

Explanation: An error occurred on the specified switch chip; error recovery failed.

User Response: Record all relevant information and contact IBM Hardware Support.

2549-172 Not enough available sender nodes.

Explanation: The primary node failed to initialize enough sender nodes to proceed with the test. Possible reasons are:

1. A failure occurred on the sender node.
2. The primary node and sender node failed to exchange service packets.

User Response: Record the above information and contact the IBM Support Center.

2549-173 Receiver failed to initialize (timeout).

Explanation: The receiver did not respond within its timeout period. Possible reasons are:

1. A failure occurred on the receiver node.
2. The primary node and receiver node failed to exchange service packets.

User Response: Record the above information and contact the IBM Support Center.

2549-174 Receiver failed to respond (timeout).

Explanation: The receiver did not respond within its timeout period. Possible reasons are:

1. A failure occurred on the receiver node.
2. The primary node and receiver node failed to exchange service packets.

User Response: Record the above information and contact the IBM Support Center.

2549-200 Invalid argument: *argument-string*.

Explanation: The user specified an invalid argument.

User Response: Check the command arguments.

2549-201 No receiver node was specified.

Explanation: The user did not specify a receiver node.

User Response: Restart the test, providing a receiver node.

2549-202 Could not find node: *node-name*.

Explanation: The test failed to interpret the node specification parameter.

User Response: Check the node specification parameter.

2549-203 No active primary node found. Cannot run the test. Run Estart.

Explanation: There is no active primary node.

User Response: Run the **Estart** command and then restart the test.

2549-204 A running diagnostic process has been detected in the system. [*process-name process number*]. If currently another diagnostic application is running, terminate it. Otherwise, kill *process-name* and Java UIMain processes. Restart the test.

Explanation: Another diagnostics application is either running or was previously terminated abnormally.

User Response: If another diagnostic application is currently running, terminate it. Otherwise, kill the specified process and Java UIMain processes. Restart the test.

2549-205 Could not open file: *file-name*.

Explanation: The test failed to open the specified file.

User Response: Check that the specified file exists and has correct permissions.

2549-206 Problem with node *node-name*, cannot use it.

Explanation: The specified node cannot be used for testing.

User Response: Check the node specification parameter.

2549-207 PSSP 3.1.1 is not installed on the primary node. Cannot run the test. Use Eprimary to choose a primary node which uses PSSP 3.1.1 and then Estart.

Explanation: The PSSP version installed on the primary node is earlier than PSSP 3.1.1. The test requires PSSP version 3.1.1 or higher.

User Response: Assign another primary node with the correct PSSP level and restart the test.

2549-208 PSSP 3.1.1 is not installed on receiver node. Cannot run the test. Choose another receiver.

Explanation: The required PSSP service level is PSSP 3.1.1 or higher.

User Response: Select a receiver node with a correct PSSP level and restart the test.

2549-209 Failed executing *file-name*. Check that the file is installed and file permissions allow executing.

Explanation: The test failed to execute the command.

User Response: Check that the file is installed and that the file permissions allow execution.

2549-210 Cannot run the GUI because *Java.rte.bin* is not installed. Install *Java.rte.bin* or restart the test without the **-g** parameter.

Explanation: The test failed to load the GUI because a necessary component was not installed.

User Response: To run the test with GUI support, install the missing component (**Java.rte.bin**) and restart the test. To run the test without GUI support, restart the test without the **-g** flag.

2549-250 Switch chip *switch-number* does not exist.

Explanation: The test failed to find the device in the Worm database.

User Response: Check the switch specification parameter.

2549-251 Cannot test chip *switch-number: status device-status*.

Explanation: The device is disabled and cannot be tested.

User Response: Check the switch specification parameter.

2549-252 Failed to select assistant nodes.

Explanation: Failed to select assistant nodes because there are not enough allowed nodes.

User Response: Specify more allowed nodes and restart the test.

2549-253 Failed to distribute test configuration information to all nodes.

Explanation: An error occurred in the system while the test was distributing Worm database updates (for example, FSD on one of the nodes failed or an Error/Status packet was received).

User Response: Check the details in the system error log on the primary node. Restart the test.

2549-254 Scanning switch chip *switch-number: error recovery failed*.

Explanation: An error occurred on the specified switch chip. Error recovery failed.

User Response: Record the above information and contact IBM Hardware Support.

2549-255 Unsolicited Error/Status packet from switch chip *switch-number: error recovery failed*.

Explanation: An error occurred on the specified switch chip. Error recovery failed.

User Response: Record the above information and contact IBM Hardware Support.

2549-256 Waiting for scan response from switch chip *switch-number: timeout*.

Explanation: The test failed to read the status of the specified switch chip. The switch chip did not respond within its specified timeout period. Possible reasons are:

1. A failure occurred on the switch chip.
2. The primary node and the switch chip failed to exchange service packets.

User Response: Record the above information and contact the IBM Hardware Support.

2549-257 Waiting for response from assistant node *node-number: timeout*.

Explanation: The assistant node did not respond within its timeout period. Possible reasons are:

1. A failure occurred on the assistant node.
2. The primary node and the assistant node failed to exchange service packets.

User Response: Record the above information and contact the IBM Support Center.

2549-258 Primary backup is attached to the switch chip. Please assign another primary backup and restart the test.

Explanation: The primary backup node is attached to the switch chip being tested.

User Response: Run the **Eprimary** command to assign another backup node, then run the **Estart** command and restart the test.

2549-259 Personality changed to SECONDARY. Cannot continue.

Explanation: The primary node resigned its switch primary role. The test cannot continue.

User Response: Restart the test. Examine the system error log for more details.

2549-260 Failed to download processor routes.

Explanation: The assistant node failed to download processor routes into the adapter.

User Response: Record the above information and contact the IBM Support Center.

2549-264 Sender: failed to send HAL packets.

Explanation: The assistant node failed to send data. Possible reasons are:

1. The network is full because the destination node failed and stopped receiving packets.
2. HAL, Device Driver or microcode problems.
3. Hardware problems on node link.

User Response: Record the above information and contact the IBM Support Center.

2549-265 Receiver: failed to receive HAL packets.

Explanation: Failed to register for reading HAL packets.

User Response: Record the above information and contact the IBM Support Center.

2549-266 Failed to open HAL.

Explanation: Failed to open HAL.

User Response: Record the above information and contact the IBM Support Center.

2549-267 Failed to close HAL.

Explanation: Failed to close HAL.

User Response: Record the above information and contact the IBM Support Center.

2549-270 Memory allocation failed.

Explanation: Memory allocation failed.

User Response: Record the above information and contact the IBM Support Center.

2549-274 Failed to send diagnostics packet to node *node-number*.

Explanation: The specified node did not send an acknowledgment for a packet within the timeout period. Possible reasons are:

1. The test on the destination node failed and exited.
2. The reporting node and the destination node failed to exchange service packets.

User Response: Record the above information and contact the IBM Support Center.

2549-275 Received NODE_INIT packet. Cannot continue.

Explanation: The **Estart** command is being executed. The test will exit.

User Response: Restart the test.

2549-276 Adapter error occurred. Recovery succeeded.

Explanation: An adapter error occurred during the test. Recovery succeeded. Some packets may be lost.

User Response: None.

2549-277 Adapter recovery failed (clock outage). Exiting the test.

Explanation: A switch adapter link outage occurred.

User Response: Examine the system error log on the reporting node for more details.

2549-278 Adapter recovery failed (permanent error). Exiting the test.

Explanation: A switch adapter permanent error occurred.

User Response: Examine the system error log on the reporting node for more details.

2549-279 Adapter recovery failed (unexpected recovery result). Exiting the test.

Explanation: Switch adapter error recovery failed.

User Response: Examine the system error log on the reporting node for more details.

2549-300 Invalid argument: *arg-string*.

Explanation: The user specified an invalid argument.

User Response: Check the arguments and retry the command.

2549-301 Could not open file: *file-name*.

Explanation: The test failed to open the file.

User Response: Check that the file exists and has correct permissions.

2549-302 No such file: *file-name*.

Explanation: The specified file does not exist.

User Response: Check the arguments and retry the command.

2549-303 No switch was specified.

Explanation: The user did not provide the **switch_id** parameter.

User Response: Restart the test, specifying the **switch_id** parameter.

2549-304 No active primary node found. cannot run the test. Run Estart.

Explanation: There is no active primary node.

User Response: Choose which node will be the primary node. Run the **Eprimary** and **Estart** commands to make that node the primary node.

2549-305 A running diagnostic process has been detected in the system. If currently another diagnostic application is running, terminate it. Otherwise, kill spd_msdaemon and Java UIMain processes. Restart the test.

Explanation: Another diagnostics application is either running or was previously terminated abnormally.

User Response: If another diagnostic application is currently running, terminate it. Otherwise, kill the specified process and Java UIMain processes. Restart the test.

2549-306 Could not find node: *node-specifier*.

Explanation: The test could not interpret the node specification parameter.

User Response: Check the node specification parameters.

2549-307 No such model: *name*.

Explanation: The user specified an invalid model name.

User Response: Check the model name parameter.

2549-308 PSSP 3.1.1 is not installed on primary node. Cannot run the test. Use Eprimary to choose a primary node which uses PSSP 3.1.1 and then Estart.

Explanation: The PSSP version installed on the primary node is earlier than PSSP 3.1.1. The test requires PSSP version 3.1.1 or higher.

User Response: Assign another primary node with the correct PSSP level and restart the test.

2549-309 Problem with node *node-specifier*, cannot use it.

Explanation: The specified node cannot be used for testing.

User Response: Check the node specification parameters.

2549-310 Failed executing *command-name*. Check that the file is installed and file permissions allow executing.

Explanation: The test failed to execute the command.

User Response: Check that the file is installed and that the file permissions allow execution.

2549-311 Cannot run the GUI because Java.rte.bin is not installed. Install Java.rte.bin or restart the test without the -g parameter.

Explanation: The test failed to load the GUI because a necessary component was not installed.

User Response: To run the test with GUI support, install the missing component (**Java.rte.bin**) and restart the test. To run the test without GUI support, restart the test without the **-g** flag.

2549-315 Primary node cannot be used as an assistant node.

Explanation: The user is attempting to use the primary node as an assistant node.

User Response: Select nodes other than the primary node.

2549-316 Primary backup node cannot be used as an assistant node.

Explanation: The user is attempting to use the primary backup node as an assistant node.

User Response: Select nodes other than the primary backup node.

2549-317 Can not ping the primary node: *primary node name*.

Explanation: The primary node is not available.

User Response: Record the above information and contact the IBM Support Center.

2549-318 The fault-service daemon is not running on node: *primary node name*.

Explanation: The fault service daemon is not running on the primary node.

User Response: Record the above information and contact the IBM Support Center.

2549-319 Node *node_name* is not attached to the switch network.

Explanation: The node specified is not attached to the SP Switch2 network.

User Response: Select a node that is attached to the network and restart the test.

2549-320 Primary node cannot be used as the receiver node.

Explanation: The receiver node specified is the current Primary Node.

User Response: Use the **Eprimary** command to specify a different Primary Node, and run the **Estart** command.

2549-321 Primary Backup node cannot be used as the receiver node.

Explanation: The receiver node specified is the current Primary Backup Node.

User Response: Use the **Eprimary** command to specify a different Primary Backup Node, and run the **Estart** command.

2549-405 Unable to load the *library-name* library.

Explanation: The test is unable to load the diagnostic library.

User Response: Check that the file is present, and reinstall the diagnostic library if necessary.

2549-409 Error executing the *library-name* EntryPoint().

Explanation: Error initializing the diagnostic library.

User Response: Reinstall the diagnostic library.

2549-451 Cannot find max_execution_time value in the TDF. Framework exits.

Explanation: The maximum execution time for the test must be specified.

User Response: Record the above information and contact the IBM Support Center.

2549-452 The requested model's execution time is longer than the maximum execution time. Test exits.

Explanation: The requested model's execution time is longer than the maximum execution time defined in the TDF.

User Response: Specify a longer execution time or choose a different model when running the test.

2549-455 No such model: *model-name*. Test exits.

Explanation: The user must specify an existing model when requesting a specific test model.

User Response: Select a model name from the given list and run the test again.

2549-456 Internal Error, failed to process event.

Explanation: An internal error has occurred.

User Response: Record the above information and contact the IBM Support Center.

2549-484 Internal error.

Explanation: An internal error has occurred.

User Response: Record the above information and contact the IBM Support Center.

2549-485 User attempted to fence participating nodes. Exiting the test.

Explanation: During test execution, the user attempted to fence nodes participating in the test. The test will exit.

User Response: Restart the test, specifying proper allowed test participants.

2549-486 **User attempted to unfence participating nodes. Exiting the test.**

Explanation: During test execution, the user attempted to unfence nodes participating in the test. The test will exit.

User Response: Restart the test, specifying proper allowed test participants.

2549-487 **Estart has been issued by the user. Exiting the test.**

Explanation: The user has issued the **Estart** command. The test will exit.

User Response: None.

2549-488 **Forbidden node or backup is attached to the switch chip.**

Explanation: The switch chip is connected directly to a node that is not allowed to be affected by the test. The test cannot continue.

User Response: If the backup node is connected to the switch chip, reassign another backup node. Specify all nodes connected to the switch chip as allowed, if possible, and restart the test.

2549-489 **Unexpected system behavior.**

Explanation: Call to an FSD function failed - the SPD test cannot proceed

User Response: Try to check system stability - disk space, IP connections, and so on. Rerun the test.

2549-490 **Test execution was stopped.**

Explanation: Test was stopped due to node personality change or some other abnormal condition.

User Response: If you cannot determine the cause of the failure, record the above information and contact the IBM Support Center.

2549-601 **The test *test-name* was terminated abnormally. Some of the nodes may be fenced. Please unfence them and issue Estart.**

Explanation: The test may have terminated without unfencing all participating nodes.

User Response: If the nodes that participated in the test remain fenced, unfence them.

2549-602 **Error opening trace file.**

Explanation: Could not create the trace file **spd_gui.log**.

User Response: Check free space on the disk, check the quota, check the file permissions (**/var** directory).

2549-603 **Error writing to trace file.**

Explanation: Could not write to the trace file **spd_gui.log**.

User Response: Check the free space on the disk, check the quota, check the file permissions (**/var** directory).

2549-604 **Could not find host: *host-name*.**

Explanation: Could not translate the hostname to an IP address (hostname should be the name of the control workstation).

User Response: Check TCP/IP settings. Check the network installation.

2549-605 **Could not connect to host: *host-name*.**

Explanation: Could not connect to the Message Daemon on the control workstation (hostname should be the name of the control workstation).

User Response: Check connectivity to the control workstation. Check TCP/IP settings. Check the network installation.

2549-606 **I/O error while writing to socket.**

Explanation: Error while writing to the socket connected to the Message Daemon on the control workstation.

User Response: Check the following:

1. Connectivity to the control workstation
 2. TCP/IP settings
 3. Network installation
 4. Status of the control workstation
-

2549-607 **I/O error while reading socket.**

Explanation: Error while reading from the socket connected to the Message Daemon on the control workstation.

User Response: Check the following:

1. Connectivity to the control workstation
 2. TCP/IP settings
 3. Network installation
 4. Status of the control workstation
-

2549-608 **Could not find string:** *string* **in TDF file:**
file-name.

Explanation: Could not find the specified string in the **default.tdf** file found at the file path above.

User Response: Check connectivity to the control workstation. Check the status of the control workstation. Check the software installation.

2549-609 **Cannot open TDF file:** *file-name.*

Explanation: Could not find the **default.tdf** file. It was probably not copied from the control workstation.

User Response: Check connectivity to the control workstation. Check the status of the control workstation. Check the software installation.

2549-610 **Error reading TDF file:** *file-name.*

Explanation: Error reading the **default.tdf** file.

User Response: Check connectivity to the control workstation, check the status of the control workstation, check the software installation.

2549-611 **Failed to open display.**

Explanation: The Java program could not write to the graphics display.

User Response: Set the **DISPLAY** environment variable. Give the GUI permission to open on your display by issuing the **xhost** command.

Chapter 43. 2551 - CE diagnostic messages

2551-001 *program name:* **Returned the error status listed.**

Explanation: Additional information appears on your screen.

User Response: See the additional information on your screen.

2551-002 *program name* **issued command:**
command name, RC=return code.

Explanation: Additional information appears on your screen.

User Response: See the additional information on your screen.

2551-003 *program name* **Error - The command listed was not successful. RC=string:**
string.

Explanation: Additional information appears on your screen.

User Response: See the additional information on your screen.

2551-E01 **Could not find match for the CWS boot adapter** *adapter: list of adapters.*

Explanation: The list of adapters was searched for the CWS boot adapter.

User Response: None. The default is used. If there is only one type, it is used.

2551-E03 **IRRECOVERABLE ERROR: No more frames available for test.**

Explanation: The list of frames to test has been exhausted.

User Response: The tests have completed. To test more frames, start from the beginning of the process.

2551-E11 **Prerequisite Check: IRRECOVERABLE ERROR - The SSP component(s) listed are not installed:**

Explanation: The **Ispp** command was invoked to obtain the level of PSSP components installed. One or more components are not installed. They are listed after this message.

User Response: Install the components at the correct level.

2551-E12 **Prerequisite Check: ERROR - The SSP component(s) listed are not at required level:**

Explanation: The **Ispp** command was invoked to obtain the level of PSSP components installed. One or more components are not at the correct level. They are listed after this message.

User Response: Install the components at the correct level.

2551-E12a **ssp.ssp component installed level - Require required level or higher.**

Explanation: This is the list of components that are not at the correct level, and the required minimum level.

User Response: Install the component at or above the minimum required level.

2551-E13 **IRRECOVERABLE ERROR - Ethernet interface interface not Available.**

Explanation: The **Isdev -C -I** command shows that the adapter is not available.

User Response: Install and activate the adapter.

2551-E14 **IRRECOVERABLE ERROR - Ethernet interface interface not UP.**

Explanation: The **ifconfig** command shows that the adapter is not up.

User Response: Configure the adapter.

2551-E15 **IRRECOVERABLE ERROR - Ethernet interface interface not set to IP address of the CWS.**

Explanation: The **ifconfig** command shows that the Ethernet address is not the IP address of the CWS.

User Response: Reconfigure the Ethernet interface address.

2551-E16 **Problem - Ethernet hostname/hardware address mismatch between NIM and SDR. Found in SDR: SDR value Found in NIM: NIM value.**

Explanation: The commands **SDRGetObjects** and **Isnim** both returned the hardware Ethernet address, and they did not return the same values.

User Response: Determine which is the correct value and resolve the discrepancy.

2551-E17 **Problem - Found unexpected result in NIM database: Expected result: *if1* Found in NIM: *NIM result*.**

Explanation: The interface attribute was not found in NIM.

User Response: Correct the NIM attribute.

2551-E18 **Problem - Frame supervisor not responding!**

Explanation: The frame supervisor communications have failed. The command **spmon -G -q frame *frame#* controllerResponds/value** returned 0.

User Response: Examine the tty interface cable. Check that hardmon is running with the **lssrc -s hardmon** command, which should produce a status of 'active'. No more testing is permitted until this problem is resolved.

2551-E19 **Problem - Switch supervisor not responding!**

Explanation: The switch supervisor communications have failed. The command **spmon -G -q frame *frame#* /nodefail17/value** returned a value of 0.

User Response: Examine the switch cabling and power to the switch.

2551-E20 **Problem - Detected *consecutively numbered nodes* thin processor node(s), so frame *frame number* is not an *expansion frame*. Changing Frame Type to *standard frame*.**

Explanation: An incorrect configuration, consisting of two consecutive numbered nodes, was found.

User Response: None. The frame type was changed from expansion to a standard frame.

2551-E21 **Problem - No processor nodes found (in SDR)!**

Explanation: The command **SDRGetObjects Node** found no nodes.

User Response: Check that the SDR and hardmon are active, and that the frame and nodes are connected properly. Issue the commands **lssrc -s hardmon** and **lssrc -s sdr.*partition name***.

2551-E22 **Input not valid - Do not understand *input parameter*.**

Explanation: The input value is incorrect. Correct values are **GOOD** and **BAD**.

User Response: Repeat the previous menu item.

2551-E23 **ERROR - Could not resolve IP address for hostname *hostname*. Please check entry in */etc/hosts* or other method of name resolution.**

Explanation: The command **host** did not return an IP address.

User Response: Check the name resolution method or */etc/hosts*.

2551-E24 **ERROR - Could not find suffix entry for node *node number* in file *AUTOLIST* file. Please check entry in this file.**

Explanation: The file */tftpboot/AUTO* contains a list of IP addresses, nodeIDs, and node numbers. The nodeID is in the form *Fframe number-Nnode number*.

User Response: Check that the SDR has the correct **Node** information and that the IP address is resolvable.

2551-E25 **Problem with hostname resolution for IP address *address*.**

Explanation: The command **host *IP address*** did not resolve properly.

User Response: Check */etc/hosts* and name resolution.

2551-E26 **ERROR: Problem setting up *adapter name* for frame *frame number*, slot *slot number*.**

Explanation: Unable to load the SDR with values for this adapter because the **host** command failed.

User Response: Correct the name resolution and rerun this menu item.

2551-E27 **ERROR: Unrecognized frame supervisor card type (TYPE=*frame supervisor card type*).**

Explanation: This card type is not one that was expected. The card type is in the SDR **Frame** class, attribute *frame_type*.

User Response: Report the type of the card and the type found in the SDR to your system administrator.

2551-I28 **Warning: The modules listed were not successful:**

Explanation: The power state was changed, and it did not come back as expected.

User Response: Verify that the module is wired correctly and working correctly.

2551-E29 **Frame power test: IRRECOVERABLE ERROR - Could not switch the power to frame *frame number* on. Cannot continue.**

Explanation: The frame did not power on correctly.

User Response: Verify that the power supplies are working correctly and wired correctly, and that the circuit breakers are on.

2551-E30 **Frame power test: ERROR - Could not switch the power to frame *frame number* on; will remove it from the test list.**

Explanation: The frame did not power on correctly.

User Response: Verify that the power supplies are working correctly and wired correctly, and that the circuit breakers are on.

2551-E31 *failed nodes***all nodes nodes were not successful. Only nodes with hw addresses***all nodes nodes have hardware addresses in the SDR.*

Explanation: Some of the nodes failed or did not have hardware addresses in the SDR.

User Response: Check the failing nodes or capture the hardware addresses.

2551-E32 **ERROR: The command below returned an error message: CMD: *command* ERRMSG: *error message*.**

Explanation: These commands completed and returned messages.

User Response: Determine why the hardware addresses are missing.

2551-E33 **Nodes in the slots listed did not pass hardware address acquisition:**

Explanation: The list that follows this message contains all the nodes that do not have hardware addresses in the SDR.

User Response: Examine the communication channels and connections.

2551-E34 **Hardware addresses in the SDR not valid for nodes in the slots listed:**

Explanation: The list that follows this message contains all the slots that do not have valid hardware addresses in the SDR.

User Response: It may be necessary to rerun this section of the test in order to obtain valid addresses.

2551-E35 **ALL *number* nodes have hardware addresses listed in the SDR that are not valid.**

Explanation: All the nodes have incorrect hardware addresses in the SDR.

User Response: The nodes will not boot without the correct address in the SDR. Recollect the addresses.

2551-E36 *failing nodes***all nodes nodes have hardware addresses listed in the SDR that are not valid.**

Explanation: The specified proportion of nodes have incorrect hardware addresses in the SDR.

User Response: You can recollect the addresses or test the valid addresses.

2551-E37 **ERROR: Could not power-on switch assembly in slot *slot number*! Check Circuit Breaker on switch assembly.**

Explanation: An attempt was made to power on the switch in this slot.

User Response: Check the wiring and circuit breaker for this slot.

2551-E38 **Frame Check: ERROR - Supervisor communication problem with all frames!**

Explanation: All the frames failed to power on the switches.

User Response: Check the supervisor card and wiring.

2551-E39 **Please fix problem(s), then rerun step.**

Explanation: You have chosen not to continue with the testing.

User Response: Use this opportunity to fix the problem, then rerun the step.

2551-E40 **ERROR: *frame-slot* - Node supervisor not responding. Check supervisor bus cable.**

Explanation: The **spmon -q** command was run for this node and slot. It returned an error.

User Response: Check the cable and connections to the node supervisor.

2551-E41 **ERROR: *frame-slot* - Node not getting power. Check Circuit Breaker.**

Explanation: The `spmon -q node/powerLED/value` command returned a value of 0. This indicates that the node is not getting power.

User Response: Check the Circuit Breaker and connections to the node.

2551-E42 **ERROR - There are no processor nodes ready for network boot command.**

Explanation: All the nodes are either booted or unable to boot.

User Response: Either boot the nodes that are not booted, or continue testing those nodes that are booted.

2551-E43 **ERROR - Communication problem found on all frames!**

Explanation: The `chk_system` subroutine was run for all the frames, and there was an error for all frames.

User Response: This indicates that there is a problem with the frame supervisor.

2551-E44 **ERROR: No more primary node choices left! - Please correct problem, then rerun this step.**

Explanation: All the nodes have been tried as the primary node.

User Response: Repair failing hardware and rerun tests.

2551-E45 **ERROR: No switch test results (*out.top files*) file found. Make sure Verify Switch Feature step completed successfully, then rerun step.**

Explanation: The switch code puts its tracing information in the `out.top` file. It contains information about all the connections.

User Response: The Verify Switch Feature step must complete successfully in order to receive this file.

2551-E46 **IRRECOVERABLE ERROR: Could not locate original file for *spot directory/file name*. Need to run `sptest.install` first.**

Explanation: This file is missing. It is established by `sptest.install`, which is a preliminary step.

User Response: Run the `sptest.install` script from the control workstation.

2551-E47 **Error: No nodes returned results from clock test. Cannot continue test.**

Explanation: The clock test generates a list of nodes that responded to the test.

User Response: Rerun the clock test. Examine the connections and power.

2551-E55 **Problem: No switch adapter found. Exiting.**

Explanation: The command `lsdev -C |grep css` searched for switch adapters. No switch adapter was found.

User Response: Review the switch adapter configuration. Reconfigure the adapter if necessary.

2551-E56 **Problem: *microcode file* exists; will not continue test!**

Explanation: This microcode file exists: `dtb2ulddram` or `vpd_check`.

User Response: Testing cannot continue until this problem is resolved.

2551-E57 **Mount not successful. Expect problems from any SSP/CSS-related references below!!!**

Explanation: The attempt to mount the `ssp` directory failed.

User Response: The list that follows will fail as a result. Examine the mount.

2551-E58 **Error: Could not find TTY device at location *tty device*.**

Explanation: The `lsdev -C` command failed to find the tty device.

User Response: Check that the tty device is configured properly.

2551-E59 **Error: Operation for frame *frame number* is not valid. (Status=*status*).**

Explanation: This frame is a customer's frame. Therefore, its data cannot be changed.

User Response: Delete frame information only for new frames.

2551-E60 **Error: Switch clock test found *number of errors* errors!**

Explanation: A number of errors occurred in the clock test.

User Response: Examine the error log and messages for errors.

2551-E60a **Error! (Clock not detected) Check *clock description log*.**

Explanation: The clock test failed and did not detect the clock signal.

User Response: Examine the clock connections.

2551-E60b **Error (Clock not expected) Check *clock description log*.**

Explanation: The clock state was off and, a result was not expected.

User Response: Examine the clock connections.

2551-E60c **No processor nodes ready to gather the hardware address.**

Explanation: There were problems in the node supervisor check. No processor nodes detected.

User Response: Check the wiring and the circuit breakers.

2551-E61 **Processor nodes detected in frame *frame number*. This is inconsistent with frame type *multi-switch frame*.**

Explanation: Processing nodes do not go into switch frames.

User Response: Use the commands **spmon -d** or **splstdata -n** to evaluate the node types in this frame.

2551-E62 ***number of nodes* processor nodes detected in frame *frame number*.**

Explanation: This number of nodes exist in the frame.

User Response: Use the command **splstdata -n** to determine the configuration of the frame.

2551-E63 **Error: Could not find LAN interface *LAN interface*.**

Explanation: The **lsdev -C** command did not show this interface.

User Response: Check that this interface is installed on the system.

2551-E64 **Entry not valid *IP address*.**

Explanation: An invalid address was entered. Routine **ip_h2d** failed to convert the IP address to decimal properly.

User Response: Check the IP address and locate the correct value.

2551-E66 **Problem with SDRArchive command.**

Explanation: The **SDRArchive** call failed.

User Response: Examine the remaining disk and files system space. Check the security system for permissions and tickets.

2551-E67 **Problem accessing application SDR class *SDR class*.**

Explanation: The SDR contains system data. This class was not available.

User Response: Check permission to access the SDR.

2551-E68 **Problem populating SDR class *SDR class*.**

Explanation: The call to the SDR failed. It was unable to write to the SDR.

User Response: Check write permission to the SDR.

2551-E69 **Error while checking SPOT *spot name*.**

Explanation: The **nim -o check spot name** command failed for the selected spot.

User Response: Check the spot name and the NIM configuration.

2551-E70 **Could not locate any SDR archive files.**

Explanation: The SDR stores archives in **/spdata/sys1/sdr/archives/backup**.

User Response: Examine this directory and the security access permission.

2551-E71 **Problem with SDRRestore command.**

Explanation: The **SDRRestore** command failed.

User Response: Refer to the documentation for **SDRRestore** to determine the cause of the failure.

2551-E72 **Environment variable DISPLAY not set, please perform: export DISPLAY=*hostname:number*.**

Explanation: The application cannot work unless the **DISPLAY** environment variable is set.

User Response: Issue the **export** command stated above.

2551-E73 **Command must be run from the control workstation. Exiting...**

Explanation: The command cannot run on a node other than the control workstation.

User Response: Issue the command on the control workstation.

2551-E74 SDR Problem. *command returned error.*

Explanation: The SDR call failed.

User Response: Check that the SDR is active by running the command **lssrc -a | grep sdr**. Check that the default IP address and name of default in the **/etc/SDR_dest_info** file can be resolved. Run the **host IPaddress** and **host name of default** commands and check for errors. Check the SDR error message.

Chapter 44. 2552 - PSSP installation messages (continued)

For additional PSSP installation messages, see messages beginning with the prefix 0016.

2552-050 Nodecond Status: Invoking *directory path to node type process , node type.*

Explanation: Notifying the user of the node type selected and invoking the process to condition the nodes

User Response: No action required.

2552-051 Option *option flag incorrect.*

Explanation: The option flag entered on the command line is incorrect.

User Response: Check the correct option in the usage statement and enter the command again.

2552-052 You have entered an incorrect *frame_ID.*

Explanation: The frame ID entered on the command line is incorrect.

User Response: Select the correct frame ID and enter the command again.

2552-053 You have entered an incorrect *slot_ID.*

Explanation: The slot ID entered on the command line is incorrect.

User Response: Select the correct slot ID and enter the command again.

2552-054 You must specify a *frame_Id and a slot_Id.*

Explanation: Both frame ID and slot ID must be entered on the command line.

User Response: Enter the command again with the correct frame and slot IDs.

2552-055 Unable to determine node type for *frame_ID frame_ID, slot_ID slot_ID.*

Explanation: The program had a problem obtaining the correct value of the node type for the frame ID and slot ID entered.

User Response: If you have determined that the frame ID and slot ID entered are correct, follow standard problem resolution procedures.

2552-056 Unrecognized node type found for *frame_ID frame_ID, slot_ID slot_ID, and Card type=node type value.*

Explanation: The value returned for the node type is not recognized in the data base.

User Response: Follow standard problem resolution procedures.

2552-057 Nodecond Not Successful: Unable to *create logfile logfile.*

Explanation: The trace information logfile was not created.

User Response: Follow standard problem resolution procedures.

2552-058 Nodecond Not Successful: Trace *information has been placed in the file logfile.*

Explanation: The error trace information has been placed in the logfile.

User Response: Refer to the logfile for more information on the error condition.

2552-059 Nodecond Not Successful: A return *code of return code was returned which may indicate that the file system is full.*

Explanation: The return code value returned may indicate a full file system.

User Response: Follow standard problem resolution procedures.

2552-060 You may not use the -a flag with any of *the -n, -p, or -P flags.*

Explanation: The -a flag should not be used in combination with any of the -n, -p, or -P flags.

User Response: Re-issue the command with the correct flag syntax.

2552-061 You may not use the -p flag with the -P *flag.*

Explanation: The -p flag should not be used in combination with the -P flag.

User Response: Re-issue the command with the correct flag syntax.

2552-062 You may not use the **-a** flag, the **-p** flag, or the **-P** flag in connection with nodes that do not support the **CHRP** interface.

Explanation: Only **CHRP** nodes support the list physical location codes and ping functions.

User Response: Re-issue the command with the correct flag syntax.

2552-063 No **SPLAN** adapter found. Run **spadaptrs** to define an **SPLAN** adapter.

Explanation: There is no **SPLAN** adapter defined in the **SDR**. Before a node can be conditioned, the **SPLAN** adapter must be defined in the **SDR**.

User Response: Run the **spadaptrs** command to define an **SPLAN** adapter and issue the **nodecond** command again.

2552-064 Configuration error. Multiple **SPLAN** adapters found.

Explanation: There is more than one **SPLAN** adapter defined in the **SDR**. This is a configuration error.

User Response: Record the above information and contact the IBM Support Center.

2552-065 Unable to find an adapter at *physical location code* in device tree. Quitting.

Explanation: The physical location code defined in the **SDR** does not match with an adapter in the device tree list.

User Response: Verify that the physical location code defined in the **SDR** has the correct value and issue **nodecond** again.

Chapter 45. 5025 - dsh and parallel commands messages

5025-001 Node — fewer processes configured at this boot than before.

Explanation: Detailed data for SYSMAN700_ER errlog record. When the node booted, the number of processors configured for the node is less than what was recorded in the SDR. This information is in the processors_installed attribute in the Node class for the node.

User Response: Follow the recommended actions in the error log entry.

5025-002 Fewer processors configured.

Explanation: Error description field for SYSMAN001_ER errlog record.

User Response: Follow the recommended actions in the error log entry.

5025-003 Processor deconfigured due to errors.

Explanation: Probable cause field for error log records.

User Response: Follow the recommended actions in the error log entry.

5025-004 Processor varied offline by user.

Explanation: Probable cause and failure cause field for error log records.

User Response: Follow the recommended actions in the error log entry.

5025-005 Processor hardware errors detected.

Explanation: Probable cause field for error log records.

User Response: Follow the recommended actions in the error log entry.

5025-006 Run diagnostics, problem determination.

Explanation: Recommended action field for error log records.

User Response: Run diagnostics and perform problem determination procedures on the failing hardware component.

5025-007 Contact service representative.

Explanation: Recommended action field for error log records.

User Response: Report failing hardware component to your IBM Support Center.

5025-008 Reenable processor and reboot.

Explanation: Recommended action field for error log records. Take this action if the processor was manually deconfigured.

User Response: Reenable the deconfigured processor and reboot the node.

5025-501 No alphanumeric characters, command not issued.

Explanation: You entered a command to the program without any valid characters.

User Response: Enter the corrected command.

5025-502 Extraneous option - *option*.

Explanation: You specified an extraneous option on the command.

User Response: Enter the corrected command.

5025-503 Incorrect argument - *argument*.

Explanation: You specified an invalid argument to the command.

User Response: Enter the corrected command.

5025-504 Missing argument.

Explanation: You specified an option that requires an argument without supplying the argument.

User Response: Enter the corrected command.

5025-505 Incorrect option - *option*.

Explanation: You specified an option which was not valid on the command.

User Response: Enter the corrected command.

5025-506 Missing option.

Explanation: You omitted an option on the command.

User Response: Enter the corrected command.

5025-507 Working collective environment variable not set

Explanation: The command expects the **WCOLL** environment variable to exist, since no working collective was specified on the command line.

User Response: Set **WCOLL** to the name of a file containing the working collective.

5025-508 Cannot open working collective file *file name: system message*

Explanation: The working collective file could not be opened

User Response: Check the system message, fix the problem, and enter the command again.

5025-509 *hostname command had exit code return code.*

Explanation: The *command* to the specified hostname was unsuccessful and produced the specified exit code.

User Response: Determine why the *command* is not working to the host, fix the problem, and retry the command.

5025-510 Caught SIG^{signal} - terminating the child processes

Explanation: The command has caught the specified signal and will issue **SIGTERMs** to any outstanding remote command child processes.

User Response: None

5025-511 No hosts in working collective.

Explanation: There are no hosts in the working collective. A possibility is that the program has removed the last hosts from the collective, since the remote command to it has failed

User Response: Ensure that the hosts in the working collective are responding and retry the command.

5025-512 Could not pipe.

Explanation: The program could not issue a pipe system call.

User Response: Contact system support.

5025-513 Cannot redirect *file name.*

Explanation: The command could not redirect file output.

User Response: Contact system support.

5025-514 System Data Repository down

Explanation: The System Data Repository is not working. The program cannot obtain needed information from the SDR.

User Response: Contact system support.

5025-515 Hostname *hostname unresolvable*

Explanation: The program could not find the specified hostname.

User Response: If the hostname is correct, contact system support. Otherwise, correct the hostname and reissue the program.

5025-516 Attention - Specified node not in cluster.

Explanation: The node number specified is not in the cluster.

User Response: If the node is specified correctly, contact system support. Otherwise, specify the node correctly and reissue the program command.

5025-517 File *file name* **contains POE pools, not supported.**

Explanation: The POE file contained a POE pool specification.

User Response: Use a POE file without the pool specification.

5025-518 Cannot open host file *file name.*

Explanation: The host file specified could not be opened.

User Response: If the host file name is correct, contact system support. Otherwise, correct the host file name and reissue the program command.

5025-519 No working collective or POE file found.

Explanation: No working collective file or POE file exists.

User Response: Check the **WCOLL** or **MP_HOSTFILE** environment variables to see if they specify a valid file of hostnames.

5025-520 Conflicting arguments.

Explanation: No working collective file or Parallel Operating Environment file exists.

User Response: Check the **WCOLL** or **MP_HOSTFILE** environment variables to see if they specify a valid file of hostnames.

5025-521 Could not resolve node group *node group name.*

Explanation: The first operand was not a number, so the operands are assumed to be node groups. The specified node group could not be resolved.

User Response: Use the **nglist** command to see if

the desired node group exists.

5025-522 Node *node_number* does not have an *initial_hostname* in the Node object class of the System Data Repository (SDR). The object is ignored.

Explanation: The specified node does not have an *initial_hostname* in the SDR. This may be an unconfigured node. No processing will occur for this node.

User Response: Check the information in the Node object class in the SDR.

5025-550 Only allowable flag is **-b**

Explanation: You specified an option or flag which was not valid.

User Response: Correct the command and enter it again.

5025-551 Uninitialized field in SDR record: *record*.

Explanation: The System Data Repository has incomplete information. The command cannot continue.

User Response: Contact system support.

5025-552 System Data Repository down.

Explanation: The System Data Repository is not working. The **seqfile** command cannot obtain needed information from it.

User Response: Contact system support.

5025-553 Node *node_number* does not have a *reliable_hostname* in the Node object class of the System Data Repository (SDR). The object is ignored.

Explanation: The specified node does not have a *reliable_hostname* in the SDR. This may be an unconfigured node. No processing will occur for this node.

User Response: Check the information in the Node object class in the SDR.

5025-600 Multiple occurrences of flag found.

Explanation: You can specify only **-kill**, **-nice**, or **-print** flags.

User Response: Enter the command again with an appropriate flag.

5025-601 One of **-print**, **-kill**, or **-nice** flags must be specified.

Explanation: One of **-kill**, **-nice**, or **-print** flags is required.

User Response: Enter the command again with an appropriate flag.

5025-602 Parentheses unbalanced.

Explanation: Unequal number of left and right parentheses in expression.

User Response: Enter the command again with matching left and right parentheses.

5025-603 Error in input line:

Explanation: Input line to filter is in improper form.

User Response: Correct input to hostname: command.

5025-604 Missing argument for option:

Explanation: An option that expects an argument does not find one.

User Response: Correct the input.

5025-605 Incorrect argument for option.

Explanation: User has specified an incorrect argument for the specified option.

User Response: Enter the command again using valid options.

5025-606 Missing string within parenthesis.

Explanation: When using parenthesis, specify an expression.

User Response: Enter the command again correctly.

5025-607 Incorrect hostlist specified.

Explanation: There is an error in the hostlist arguments supplied on the **pdf** command line.

User Response: Correct the hostlist arguments and enter the command again.

5025-608 No arguments specified.

Explanation: No arguments (file system names) were specified on the **pfck** command line.

User Response: Enter the **pfck** command again with one or more file system name arguments.

5025-609 **Incorrect hostlist specified.**

Explanation: Error in the hostlist arguments supplied on the **pfck** command line.

User Response: Correct the hostlist arguments and enter the command again.

5025-610 **File specified is not valid:** *file_name*

Explanation: The file specified is incorrect. The file is either missing, or the file has the wrong type of permissions.

User Response: Correct the **hostlist** arguments and enter the command again.

5025-700 **Flag syntax:** *command flag, command flag argument is not valid.*

Explanation: A program flag argument is not correct.

User Response: Enter the command again with the correct flag argument.

5025-701 **Unknown command option:** *command option.*

Explanation: A program option is incorrect.

User Response: Enter the command again with the correct option.

Chapter 46. Per Node Key Management messages

- Message: Unable to start DAE. file=*file name* ver=*file version*, line=*line number*, rc=*line number*.
Explanation: An error occurred when Per Node Key Management attempted to daemonize its process during startup.
User Response: Contact the IBM Support Center.
- Message: Daemon must run as root not as euid *effective user id*.
Explanation: The daemon is not owned by root.
User Response: Change the ownership of the daemon to root and restart spnkeymand using the **spnkeyman_start** or **startsrc -s spnkeyman** commands.
- Message: Function *function name* error. Unable to refresh. err=*error code*, error string.
Explanation: An error occurred in an underlying process. The error is probably from the spsec library or the DCE authentication services.
User Response: Actions depend on the error message returned. You may need to consult the Diagnosis Guide for debugging information or the DCE manuals. See the authentication sections, sections on spsec library, and sections on Per Node Key Management.
- Message: No token returned from spsec. DCE not installed or configured.
Explanation: DCE is not installed on this host. DCE is a requirement for Per Node Key Management to provide its function.
User Response: Install DCE on the host through the SP installation and configuration process. For more information, see Understanding Per Node Key Management in the Administration Guide and the Diagnosis Guide for problem determination.

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Publicly available software

PSSP includes software that is publicly available:

expect

Programmed dialogue with interactive programs

Perl Practical Extraction and Report Language

SUP Software Update Protocol

Tcl Tool Command Language

TclX Tool Command Language Extended

Tk Tcl-based Tool Kit for X-windows

This book discusses the use of these products only as they apply specifically to the RS/6000 SP system. The distribution for these products includes the source code and associated documentation. **/usr/lpp/ssp/public** contains the compressed **tar** files of the publicly available software. (IBM has made minor modifications to the versions of Tcl and Tk used in the SP system to improve their security characteristics. Therefore, the IBM-supplied versions do not match exactly the versions you may build from the compressed **tar** files.) All copyright notices in the documentation must be respected. You can find version and distribution information for each of these products that are part of your selected install options in the **/usr/lpp/ssp/README/ssp.public.README** file.

Glossary of Terms and Abbreviations

A

ACL. Access Control List. A list that defines who has permission to access certain services; that is, for whom a server may perform certain tasks. This is usually a list of principals with the type of access assigned to each.

adapter. An adapter is a mechanism for attaching parts. For example, an adapter could be a part that electrically or physically connects a device to a computer or to another device. In the SP system, network connectivity is supplied by various adapters, some optional, that can provide connection to I/O devices, networks of workstations, and mainframe networks. Ethernet, FDDI, token-ring, HiPPI, SCSI, FCS, and ATM are examples of adapters that can be used as part of an SP system.

address. A character or group of characters that identifies a register, a device, a particular part of storage, or some other data source or destination.

AFS. A distributed file system that provides authentication services as part of its file system creation.

AIX. Abbreviation for Advanced Interactive Executive, IBM's licensed version of the UNIX operating system. AIX is particularly suited to support technical computing applications, including high function graphics and floating point computations.

API. Application Programming Interface. A set of programming functions and routines that provide access between the Application layer of the OSI seven-layer model and applications that want to use the network. It is a software interface.

application. The use to which a data processing system is put; for example, a payroll application, an airline reservation application.

application data. The data that is produced using an application program.

ARP. Address Resolution Protocol.

ATM. Asynchronous Transfer Mode. (See *TURBOWAYS 100 ATM Adapter*.)

authentication. The process of validating the identity of either a user of a service or the service itself. The process of a principal proving the authenticity of its identity.

authorization. The process of obtaining permission to access resources or perform tasks. In SP security services, authorization is based on the principal identifier. The granting of access rights to a principal.

authorization file. A type of ACL (access control list) used by the IBM AIX remote commands and the IBM PSSP Sysctl and Hardmon components.

B

batch processing. (1) The processing of data or the accomplishment of jobs accumulated in advance in such a manner that each accumulation thus formed is processed or accomplished in the same run. (2) The processing of data accumulating over a period of time. (3) Loosely, the execution of computer programs serially. (4) Computer programs executed in the background.

BOS. The AIX Base Operating System.

C

call home function. The ability of a system to call the IBM support center and open a PMR to have a repair scheduled.

CDE. Common Desktop Environment. A graphical user interface for UNIX.

charge feature. An optional feature for either software or hardware for which there is a charge.

CLI. Command Line Interface.

client. (1) A function that requests services from a server and makes them available to the user. (2) A term used in an environment to identify a machine that uses the resources of the network.

CMI. Centralized Management Interface provides a series of SMIT menus and dialogues used for defining and querying the SP system configuration.

Concurrent Virtual Shared Disk. A virtual shared disk that can be concurrently accessed by more than one server.

connectionless. A communication process that takes place without first establishing a connection.

connectionless network. A network in which the sending logical node must have the address of the receiving logical node before information interchange can begin. The packet is routed through nodes in the network based on the destination address in the packet. The originating source does not receive an acknowledgment that the packet was received at the destination.

control workstation. A single point of control allowing the administrator or operator to monitor and manage the SP system using the IBM AIX Parallel System Support Programs.

credentials. A protocol message, or part thereof, containing a ticket and an authenticator supplied by a client and used by a server to verify the client's identity.

css. Communication subsystem.

D

daemon. A process, not associated with a particular user, that performs system-wide functions such as administration and control of networks, execution of time-dependent activities, line printer spooling and so forth.

DASD. Direct Access Storage Device. Storage for input/output data.

DCE. Distributed Computing Environment.

DFS. distributed file system. A subset of the IBM Distributed Computing Environment.

DNS. Domain Name Service. A hierarchical name service which maps high level machine names to IP addresses.

E

Error Notification Object. An object in the SDR that is matched with an error log entry. When an error log entry occurs that matches the Notification Object, a user-specified action is taken.

ESCON. Enterprise Systems Connection. The ESCON channel connection allows the RS/6000 to communicate directly with a host System/390; the host operating system views the system unit as a control unit.

Ethernet. (1) Ethernet is the standard hardware for TCP/IP local area networks in the UNIX marketplace. It is a 10-megabit per second baseband type LAN that allows multiple stations to access the transmission medium at will without prior coordination, avoids contention by using carrier sense and deference, and resolves contention by collision detection (CSMA/CD). (2) A passive coaxial cable whose interconnections contain devices or components, or both, that are all active. It uses CSMA/CD technology to provide a best-effort delivery system.

Ethernet network. A baseband LAN with a bus topology in which messages are broadcast on a coaxial cabling using the carrier sense multiple access/collision detection (CSMA/CD) transmission method.

event. In Event Management, the notification that an expression evaluated to true. This evaluation occurs each time an instance of a resource variable is observed.

expect. Programmed dialogue with interactive programs.

expression. In Event Management, the relational expression between a resource variable and other elements (such as constants or the previous value of an instance of the variable) that, when true, generates an event. An example of an expression is $X < 10$ where X represents the resource variable `IBM.PSSP.aixos.PagSp.%totalfree` (the percentage of total free paging space). When the expression is true, that is, when the total free paging space is observed to be less than 10%, the Event Management subsystem generates an event to notify the appropriate application.

F

failover. Also called failover, the sequence of events when a primary or server machine fails and a secondary or backup machine assumes the primary workload. This is a disruptive failure with a short recovery time.

fall back. Also called fallback, the sequence of events when a primary or server machine takes back control of its workload from a secondary or backup machine.

FDDI. Fiber Distributed Data Interface.

FFDC. First Failure Data Capture.

Fiber Distributed Data Interface (FDDI). An American National Standards Institute (ANSI) standard for 100-megabit-per-second LAN using optical fiber cables. An FDDI local area network (LAN) can be up to 100 km (62 miles) and can include up to 500 system units. There can be up to 2 km (1.24 miles) between system units and concentrators.

file. A set of related records treated as a unit, for example, in stock control, a file could consist of a set of invoices.

file name. A CMS file identifier in the form of 'filename filetype filemode' (like: TEXT DATA A).

file server. A centrally located computer that acts as a storehouse of data and applications for numerous users of a local area network.

File Transfer Protocol (FTP). The Internet protocol (and program) used to transfer files between hosts. It is an application layer protocol in TCP/IP that uses TELNET and TCP protocols to transfer bulk-data files between machines or hosts.

First Failure Data Capture (FFDC). A set of utilities used for recording persistent records of failures and significant software incidents. It provides a means of

associating failures to one another, thus allowing software to link effects of a failure to their causes and thereby facilitating discovery of the root cause of a failure.

foreign host. Any host on the network other than the local host.

FTP. File transfer protocol.

G

gateway. An intelligent electronic device interconnecting dissimilar networks and providing protocol conversion for network compatibility. A gateway provides transparent access to dissimilar networks for nodes on either network. It operates at the session presentation and application layers.

H

HACMP. High Availability Cluster Multi-Processing for AIX.

HACWS. High Availability Control Workstation function, based on HACMP, provides for a backup control workstation for the SP system.

Hardware Management Console (HMC). The *IBM Hardware Management Console for pSeries* is an installation and service support processor that runs only the HMC software. For an IBM @server pSeries 690 server to run the PSSP software, an HMC is required with a network connection to the PSSP control workstation. The HMC provides the following functions for the p690 server:

- Creating and maintaining a multiple partition environment
- Detecting, reporting, and storing changes in hardware conditions
- Acting as a focal point for service representatives to determine an appropriate service strategy

Hashed Shared Disk (HSD). The data striping device for the IBM Virtual Shared Disk. The device driver lets application programs stripe data across physical disks in multiple IBM Virtual Shared Disks, thus reducing I/O bottlenecks.

help key. In the SP graphical interface, the key that gives you access to the SP graphical interface help facility.

High Availability Cluster Multi-Processing. An IBM facility to cluster nodes or components to provide high availability by eliminating single points of failure.

HiPPI. High Performance Parallel Interface. RS/6000 units can attach to a HiPPI network as defined by the ANSI specifications. The HiPPI channel supports burst rates of 100 Mbps over dual simplex cables;

connections can be up to 25 km in length as defined by the standard and can be extended using third-party HiPPI switches and fiber optic extenders.

home directory. The directory associated with an individual user.

host. A computer connected to a network, and providing an access method to that network. A host provides end-user services.

HMC. Hardware Management Console.

I

instance vector. Obsolete term for resource identifier.

Intermediate Switch Board. Switches mounted in the switch expansion frame.

Internet. A specific inter-network consisting of large national backbone networks such as APARANET, MILNET, and NSFnet, and a myriad of regional and campus networks all over the world. The network uses the TCP/IP protocol suite.

Internet Protocol (IP). (1) A protocol that routes data through a network or interconnected networks. IP acts as an interface between the higher logical layers and the physical network. This protocol, however, does not provide error recovery, flow control, or guarantee the reliability of the physical network. IP is a connectionless protocol. (2) A protocol used to route data from its source to its destination in an Internet environment.

IP address. A 32-bit address assigned to devices or hosts in an IP internet that maps to a physical address. The IP address is composed of a network and host portion.

ISB. Intermediate Switch Board.

K

Kerberos. A service for authenticating users in a network environment.

kernel. The core portion of the UNIX operating system which controls the resources of the CPU and allocates them to the users. The kernel is memory-resident, is said to run in "kernel mode" and is protected from user tampering by the hardware.

Kernel Low-Level Application Programming Interface (KLAPI). KLAPI provides transport service for communication using the SP Switch.

L

LAN. (1) Acronym for Local Area Network, a data network located on the user's premises in which serial

transmission is used for direct data communication among data stations. (2) Physical network technology that transfers data a high speed over short distances. (3) A network in which a set of devices is connected to another for communication and that can be connected to a larger network.

LAPI. Low-level Communication API.

local host. The computer to which a user's terminal is directly connected.

log database. A persistent storage location for the logged information.

log event. The recording of an event.

log event type. A particular kind of log event that has a hierarchy associated with it.

logging. The writing of information to persistent storage for subsequent analysis by humans or programs.

Low-level Communication API (LAPI). A low-level (low overhead) message passing protocol that uses a one-sided active message style interface to transfer messages between processes. LAPI is an IBM proprietary interface designed to exploit the SP switch adapters.

M

mask. To use a pattern of characters to control retention or elimination of portions of another pattern of characters.

menu. A display of a list of available functions for selection by the user.

Message Passing Interface (MPI). An industry standard message passing protocol that typically uses a two-sided send-receive model to transfer messages between processes.

Motif. The graphical user interface for OSF, incorporating the X Window System. Also called OSF/Motif.

MPI. Message Passing Interface.

MTBF. Mean time between failure. This is a measure of reliability.

MTTR. Mean time to repair. This is a measure of serviceability.

N

naive application. An application with no knowledge of a server that fails over to another server. Client to server retry methods are used to reconnect.

network. An interconnected group of nodes, lines, and terminals. A network provides the ability to transmit data to and receive data from other systems and users.

Network Interface Module (NIM). A process used by the Topology Services daemon to monitor each network interface.

NFS. Network File System. NFS allows different systems (UNIX or non-UNIX), different architectures, or vendors connected to the same network, to access remote files in a LAN environment as though they were local files.

NIM. (1) Network Installation Management is provided with AIX to install AIX on the nodes. (2) Network Interface Module is a process used by the Topology Services daemon to monitor each network interface.

NIM client. An AIX system installed and managed by a NIM master. NIM supports three types of clients:

- Standalone
- Diskless
- Dataless

NIM master. An AIX system that can install one or more NIM clients. An AIX system must be defined as a NIM master before defining any NIM clients on that system. A NIM master manages the configuration database containing the information for the NIM clients.

NIM object. A representation of information about the NIM environment. NIM stores this information as objects in the NIM database. The types of objects are:

- Network
- Machine
- Resource

NIS. Network Information System.

node. In a network, the point where one or more functional units interconnect transmission lines. A computer location defined in a network. The SP system can house several different types of nodes for both serial and parallel processing. These node types can include thin nodes, wide nodes, 604 high nodes, as well as other types of nodes both internal and external to the SP frame.

Node Switch Board. Switches mounted on frames that contain nodes.

NSB. Node Switch Board.

NTP. Network Time Protocol.

O

ODM. Object Data Manager. In AIX, a hierarchical object-oriented database for configuration data.

P

parallel environment. A system environment where message passing or SP resource manager services are used by the application.

Parallel Environment. A licensed IBM program used for message passing applications on the SP or RS/6000 platforms.

parallel processing. A multiprocessor architecture which allows processes to be allocated to tightly coupled multiple processors in a cooperative processing environment, allowing concurrent execution of tasks.

parameter. (1) A variable that is given a constant value for a specified application and that may denote the application. (2) An item in a menu for which the operator specifies a value or for which the system provides a value when the menu is interpreted. (3) A name in a procedure that is used to refer to an argument that is passed to the procedure. (4) A particular piece of information that a system or application program needs to process a request.

partition. See system partition.

Perl. Practical Extraction and Report Language.

perspective. The primary window for each SP Perspectives application, so called because it provides a unique view of an SP system.

pipe. A UNIX utility allowing the output of one command to be the input of another. Represented by the | symbol. It is also referred to as filtering output.

PMR. Problem Management Report.

POE. Formerly Parallel Operating Environment, now Parallel Environment for AIX.

port. (1) An end point for communication between devices, generally referring to physical connection. (2) A 16-bit number identifying a particular TCP or UDP resource within a given TCP/IP node.

predicate. Obsolete term for expression.

Primary node or machine. (1) A device that runs a workload and has a standby device ready to assume the primary workload if that primary node fails or is taken out of service. (2) A node on the switch that initializes, provides diagnosis and recovery services, and performs other operations to the switch network. (3) In IBM Virtual Shared Disk function, when physical disks are connected to two nodes (twin-tailed), one node is designated as the primary node for each disk and the other is designated the secondary, or backup, node. The primary node is the server node for IBM Virtual Shared Disks defined on the physical disks under normal conditions. The secondary node can become the

server node for the disks if the primary node is unavailable (off-line or down).

Problem Management Report. The number in the IBM support mechanism that represents a service incident with a customer.

process. (1) A unique, finite course of events defined by its purpose or by its effect, achieved under defined conditions. (2) Any operation or combination of operations on data. (3) A function being performed or waiting to be performed. (4) A program in operation. For example, a daemon is a system process that is always running on the system.

protocol. A set of semantic and syntactic rules that defines the behavior of functional units in achieving communication.

R

RAID. Redundant array of independent disks.

rearm expression. In Event Management, an expression used to generate an event that alternates with an original event expression in the following way: the event expression is used until it is true, then the rearm expression is used until it is true, then the event expression is used, and so on. The rearm expression is commonly the inverse of the event expression (for example, a resource variable is on or off). It can also be used with the event expression to define an upper and lower boundary for a condition of interest.

rearm predicate. Obsolete term for rearm expression.

remote host. See *foreign host*.

resource. In Event Management, an entity in the system that provides a set of services. Examples of resources include hardware entities such as processors, disk drives, memory, and adapters, and software entities such as database applications, processes, and file systems. Each resource in the system has one or more attributes that define the state of the resource.

resource identifier. In Event Management, a set of elements, where each element is a name/value pair of the form name=value, whose values uniquely identify the copy of the resource (and by extension, the copy of the resource variable) in the system.

resource monitor. A program that supplies information about resources in the system. It can be a command, a daemon, or part of an application or subsystem that manages any type of system resource.

resource variable. In Event Management, the representation of an attribute of a resource. An example of a resource variable is IBM.AIX.PagSp.%totalfree, which represents the percentage of total free paging

space. IBM.AIX.PagSp specifies the resource name and %total free specifies the resource attribute.

Restricted Root Access (RRA). Restricted root access (RRA) limits the uses of the **rsh** and **rcp** commands within PSSP software. When RRA is enabled, it restricts root **rsh** and **rcp** authorizations from the nodes to the control workstation, and from one node to another. However, control workstation to node **rsh** and **rcp** access is still permitted.

RISC. Reduced Instruction Set Computing (RISC), the technology for today's high performance personal computers and workstations, was invented in 1975. Uses a small simplified set of frequently used instructions for rapid execution.

rlogin (remote LOGIN). A service offered by Berkeley UNIX systems that allows authorized users of one machine to connect to other UNIX systems across a network and interact as if their terminals were connected directly. The rlogin software passes information about the user's environment (for example, terminal type) to the remote machine.

RPC. Acronym for Remote Procedure Call, a facility that a client uses to have a server execute a procedure call. This facility is composed of a library of procedures plus an XDR.

RRA. Restricted Root Access.

RSB. A variant of RLOGIN command that invokes a command interpreter on a remote UNIX machine and passes the command line arguments to the command interpreter, skipping the LOGIN step completely. See also *rlogin*.

S

SCSI. Small Computer System Interface.

Secondary node. In IBM Virtual Shared Disk function, when physical disks are connected to two nodes (twin-tailed), one node is designated as the primary node for each disk and the other is designated as the secondary, or backup, node. The secondary node acts as the server node for the IBM Virtual Shared disks defined on the physical disks if the primary node is unavailable (off-line or down).

server. (1) A function that provides services for users. A machine may run client and server processes at the same time. (2) A machine that provides resources to the network. It provides a network service, such as disk storage and file transfer, or a program that uses such a service. (3) A device, program, or code module on a network dedicated to providing a specific service to a network. (4) On a LAN, a data station that provides facilities to other data stations. Examples are file server, print server, and mail server.

shell. The shell is the primary user interface for the UNIX operating system. It serves as command language interpreter, programming language, and allows foreground and background processing. There are three different implementations of the shell concept: Bourne, C and Korn.

Small Computer System Interface (SCSI). An input and output bus that provides a standard interface for the attachment of various direct access storage devices (DASD) and tape drives to the RS/6000.

Small Computer Systems Interface Adapter (SCSI Adapter). An adapter that supports the attachment of various direct-access storage devices (DASD) and tape drives to the RS/6000.

SMIT. The System Management Interface Toolkit is a set of menu driven utilities for AIX that provides functions such as transaction login, shell script creation, automatic updates of object database, and so forth.

SNMP. Simple Network Management Protocol. (1) An IP network management protocol that is used to monitor attached networks and routers. (2) A TCP/IP-based protocol for exchanging network management information and outlining the structure for communications among network devices.

socket. (1) An abstraction used by Berkeley UNIX that allows an application to access TCP/IP protocol functions. (2) An IP address and port number pairing. (3) In TCP/IP, the Internet address of the host computer on which the application runs, and the port number it uses. A TCP/IP application is identified by its socket.

standby node or machine. A device that waits for a failure of a primary node in order to assume the identity of the primary node. The standby machine then runs the primary's workload until the primary is back in service.

subnet. Shortened form of subnetwork.

subnet mask. A bit template that identifies to the TCP/IP protocol code the bits of the host address that are to be used for routing for specific subnetworks.

subnetwork. Any group of nodes that have a set of common characteristics, such as the same network ID.

subsystem. A software component that is not usually associated with a user command. It is usually a daemon process. A subsystem will perform work or provide services on behalf of a user request or operating system request.

SUP. Software Update Protocol.

switch capsule. A group of SP frames consisting of a switched frame and its companion non-switched frames.

Sysctl. Secure System Command Execution Tool. An authenticated client/server system for running commands remotely and in parallel.

syslog. A BSD logging system used to collect and manage other subsystem's logging data.

System Administrator. The user who is responsible for setting up, modifying, and maintaining the SP system.

system partition. A group of nonoverlapping nodes on a switch chip boundary that act as a logical SP system.

T

tar. Tape ARchive, is a standard UNIX data archive utility for storing data on tape media.

Tcl. Tool Command Language.

TclX. Tool Command Language Extended.

TCP. Acronym for Transmission Control Protocol, a stream communication protocol that includes error recovery and flow control.

TCP/IP. Acronym for Transmission Control Protocol/Internet Protocol, a suite of protocols designed to allow communication between networks regardless of the technologies implemented in each network. TCP provides a reliable host-to-host protocol between hosts in packet-switched communications networks and in interconnected systems of such networks. It assumes that the underlying protocol is the Internet Protocol.

Telnet. Terminal Emulation Protocol, a TCP/IP application protocol that allows interactive access to foreign hosts.

ticket. An encrypted protocol message used to securely pass the identity of a user from a client to a server.

Tk. Tcl-based Tool Kit for X Windows.

TMPCP. Tape Management Program Control Point.

token-ring. (1) Network technology that controls media access by passing a token (special packet or frame) between media-attached machines. (2) A network with a ring topology that passes tokens from one attaching device (node) to another. (3) The IBM Token-Ring LAN connection allows the RS/6000 system unit to participate in a LAN adhering to the IEEE 802.5 Token-Passing Ring standard or the ECMA standard 89 for Token-Ring, baseband LANs.

transaction. An exchange between the user and the system. Each activity the system performs for the user is considered a transaction.

transceiver (transmitter-receiver). A physical device that connects a host interface to a local area network, such as Ethernet. Ethernet transceivers contain electronics that apply signals to the cable and sense collisions.

transfer. To send data from one place and to receive the data at another place. Synonymous with move.

transmission. The sending of data from one place for reception elsewhere.

TURBOWAYS 100 ATM Adapter. An IBM high-performance, high-function intelligent adapter that provides dedicated 100 Mbps ATM (asynchronous transfer mode) connection for high-performance servers and workstations.

U

UDP. User Datagram Protocol.

UNIX operating system. An operating system developed by Bell Laboratories that features multiprogramming in a multiuser environment. The UNIX operating system was originally developed for use on minicomputers, but has been adapted for mainframes and microcomputers. **Note:** The AIX operating system is IBM's implementation of the UNIX operating system.

user. Anyone who requires the services of a computing system.

User Datagram Protocol (UDP). (1) In TCP/IP, a packet-level protocol built directly on the Internet Protocol layer. UDP is used for application-to-application programs between TCP/IP host systems. (2) A transport protocol in the Internet suite of protocols that provides unreliable, connectionless datagram service. (3) The Internet Protocol that enables an application programmer on one machine or process to send a datagram to an application program on another machine or process.

user ID. A nonnegative integer, contained in an object of type *uid_t*, that is used to uniquely identify a system user.

V

Virtual Shared Disk, IBM. The function that allows application programs executing at different nodes of a system partition to access a raw logical volume as if it were local at each of the nodes. In actuality, the logical volume is local at only one of the nodes (the server node).

W

workstation. (1) A configuration of input/output equipment at which an operator works. (2) A terminal or

microcomputer, usually one that is connected to a mainframe or to a network, at which a user can perform applications.

X

X Window System. A graphical user interface product.

Bibliography

This bibliography helps you find product documentation related to the RS/6000 SP hardware and software products.

You can find most of the IBM product information for RS/6000 SP products on the World Wide Web. Formats for both viewing and downloading are available.

PSSP documentation is shipped with the PSSP product in a variety of formats and can be installed on your system. The man pages for public code that PSSP includes are also available online.

Finally, this bibliography contains a list of non-IBM publications that discuss parallel computing and other topics related to the RS/6000 SP.

Information formats

Documentation supporting RS/6000 SP software licensed programs is no longer available from IBM in hardcopy format. However, you can view, search, and print documentation in the following ways:

- On the World Wide Web
- Online from the product media or the SP Resource Center

Finding documentation on the World Wide Web

Most of the RS/6000 SP hardware and software books are available from the IBM Web site at:

<http://www.ibm.com/servers/eserver/pseries>

You can view a book or download a Portable Document Format (PDF) version of it. At the time this manual was published, the Web address of the "RS/6000 SP Hardware and Software Books" page was:

http://www.rs6000.ibm.com/resource/aix_resource/sp_books

However, the structure of the RS/6000 Web site can change over time.

Accessing PSSP documentation online

On the same medium as the PSSP product code, IBM ships PSSP man pages, HTML files, and PDF files. In order to use these publications, you must first install the **ssp.docs** file set.

To view the PSSP HTML publications, you need access to an HTML document browser such as Netscape. The HTML files and an index that links to them are installed in the **/usr/lpp/ssp/html** directory. Once installed, you can also view the HTML files from the RS/6000 SP Resource Center.

If you have installed the SP Resource Center on your SP system, you can access it by entering the **/usr/lpp/ssp/bin/resource_center** command. If you have the SP Resource Center on CD-ROM, see the **readme.txt** file for information about how to run it.

To view the PSSP PDF publications, you need access to the Adobe Acrobat Reader. The Acrobat Reader is shipped with the AIX Bonus Pack and is also freely available for downloading from the Adobe Web site at:

<http://www.adobe.com>

To successfully print a large PDF file (approximately 300 or more pages) from the Adobe Acrobat reader, you may need to select the "Download Fonts Once" button on the Print window.

Manual pages for public code

The following manual pages for public code are available in this product:

SUP /usr/lpp/ssp/man/man1/sup.1

Perl (Version 4.036)

/usr/lpp/ssp/perl/man/perl.man

/usr/lpp/ssp/perl/man/h2ph.man

/usr/lpp/ssp/perl/man/s2p.man

/usr/lpp/ssp/perl/man/a2p.man

Manual pages and other documentation for **Tcl**, **TclX**, **Tk**, and **expect** can be found in the compressed **tar** files located in the **/usr/lpp/ssp/public** directory.

RS/6000 SP planning publications

This section lists the IBM product documentation for planning for the IBM RS/6000 SP hardware and software.

IBM RS/6000 SP:

- *Planning, Volume 1, Hardware and Physical Environment, GA22-7280*
- *Planning, Volume 2, Control Workstation and Software Environment, GA22-7281*

RS/6000 SP hardware publications

This section lists the IBM product documentation for the IBM RS/6000 SP hardware.

IBM RS/6000 SP:

- *Planning, Volume 1, Hardware and Physical Environment, GA22-7280*
- *Planning, Volume 2, Control Workstation and Software Environment, GA22-7281*
- *Installation and Relocation, GA22-7441*
- *System Service Guide, GA22-7442*
- *SP Switch Service Guide, GA22-7443*
- *SP Switch2 Service Guide, GA22-7444*
- *Uniprocessor Node Service Guide, GA22-7445*
- *604 and 604e SMP High Node Service Guide, GA22-7446*
- *SMP Thin and Wide Node Service Guide, GA22-7447*
- *POWER3 SMP High Node Service Guide, GA22-7448*

RS/6000 SP Switch Router publications

The RS/6000 SP Switch Router is based on the Ascend GRF switched IP router product from Lucent Technologies. You can order the SP Switch Router as the IBM 9077.

The following publications are shipped with the SP Switch Router. You can also order these publications from IBM using the order numbers shown.

- *Ascend GRF GateD Manual*, GA22-7327
- *Ascend GRF 400/1600 Getting Started*, GA22-7368
- *Ascend GRF Configuration and Management*, GA22-7366
- *Ascend GRF Reference Guide*, GA22-7367
- *SP Switch Router Adapter Guide*, GA22-7310

Related hardware publications

For publications on the latest IBM @server pSeries and RS/6000 hardware products, see the Web site:

http://www.ibm.com/servers/eserver/pseries/library/hardware_docs/

That site includes links to the following:

- General service documentation
- Guides by system (pSeries and RS/6000)
- Installable options
- IBM Hardware Management Console for pSeries guides

RS/6000 SP software publications

This section lists the IBM product documentation for software products related to the IBM RS/6000 SP. These products include:

- IBM Parallel System Support Programs for AIX (PSSP)
- IBM LoadLeveler for AIX 5L (LoadLeveler)
- IBM Parallel Environment for AIX (Parallel Environment)
- IBM General Parallel File System for AIX (GPFS)
- IBM Engineering and Scientific Subroutine Library (ESSL) for AIX
- IBM Parallel ESSL for AIX
- IBM High Availability Cluster Multi-Processing for AIX (HACMP)

PSSP Publications

IBM RS/6000 SP:

- *Planning, Volume 2, Control Workstation and Software Environment*, GA22-7281

PSSP:

- *Installation and Migration Guide*, GA22-7347
- *Administration Guide*, SA22-7348
- *Managing Shared Disks*, SA22-7349
- *Diagnosis Guide*, GA22-7350
- *Command and Technical Reference*, SA22-7351

- *Messages Reference*, GA22-7352
- *Implementing a Firewalled RS/6000 SP System*, GA22-7874

RS/6000 Cluster Technology (RSCT):

- *Event Management Programming Guide and Reference*, SA22-7354
- *Group Services Programming Guide and Reference*, SA22-7355
- *First Failure Data Capture Programming Guide and Reference*, SA22-7454

LoadLeveler Publications

LoadLeveler:

- *Using and Administering*, SA22-7311
- *Diagnosis and Messages Guide*, GA22-7277

GPFS Publications

GPFS:

- *Problem Determination Guide*, GA22-7434
- *Administration and Programming Reference*, SA22-7452
- *Concepts, Planning, and Installation*, GA22-7453

Parallel Environment Publications

Parallel Environment:

- *Installation Guide*, GA22-7418
- *Messages*, GA22-7419
- *MPI Programming Guide*, SA22-7422
- *MPI Subroutine Reference*, SA22-7423
- *Hitchhiker's Guide*, SA22-7424
- *Operation and Use, Volume 1*, SA22-7425
- *Operation and Use, Volume 2*, SA22-7426

Parallel ESSL and ESSL Publications

- *ESSL Products: General Information*, GC23-0529
- *Parallel ESSL: Guide and Reference*, SA22-7273
- *ESSL: Guide and Reference*, SA22-7272

HACMP Publications

HACMP:

- *Concepts and Facilities*, SC23-4276
- *Planning Guide*, SC23-4277
- *Installation Guide*, SC23-4278
- *Administration Guide*, SC23-4279
- *Troubleshooting Guide*, SC23-4280
- *Programming Locking Applications*, SC23-4281
- *Programming Client Applications*, SC23-4282
- *Master Index and Glossary*, SC23-4285
- *HANFS for AIX Installation and Administration Guide*, SC23-4283

- *Enhanced Scalability Installation and Administration Guide, Volume 1*, SC23-4284
- *Enhanced Scalability Installation and Administration Guide, Volume 2*, SC23-4306

AIX publications

You can find links to the latest AIX publications on the Web site:

<http://www.ibm.com/servers/aix/library/techpubs.html>

DCE publications

The DCE library consists of the following books:

- *IBM DCE for AIX: Administration Commands Reference*
- *IBM DCE for AIX: Administration Guide—Introduction*
- *IBM DCE for AIX: Administration Guide—Core Components*
- *IBM DCE for AIX: DFS Administration Guide and Reference*
- *IBM DCE for AIX: Application Development Guide—Introduction and Style Guide*
- *IBM DCE for AIX: Application Development Guide—Core Components*
- *IBM DCE for AIX: Application Development Guide—Directory Services*
- *IBM DCE for AIX: Application Development Reference*
- *IBM DCE for AIX: Problem Determination Guide*
- *IBM DCE for AIX: Release Notes*

You can view a DCE book or download a Portable Document Format (PDF) version of it from the IBM DCE Web site at:

<http://www.ibm.com/software/network/dce/library>

Redbooks

IBM's International Technical Support Organization (ITSO) has published a number of redbooks related to the RS/6000 SP. For a current list, see the ITSO Web site at:

<http://www.ibm.com/redbooks>

Non-IBM publications

Here are some non-IBM publications that you might find helpful.

- Almasi, G., Gottlieb, A., *Highly Parallel Computing*, Benjamin-Cummings Publishing Company, Inc., 1989.
- Foster, I., *Designing and Building Parallel Programs*, Addison-Wesley, 1995.
- Gropp, W., Lusk, E., Skjellum, A., *Using MPI*, The MIT Press, 1994.
- Message Passing Interface Forum, *MPI: A Message-Passing Interface Standard, Version 1.1*, University of Tennessee, Knoxville, Tennessee, June 6, 1995.
- Message Passing Interface Forum, *MPI-2: Extensions to the Message-Passing Interface, Version 2.0*, University of Tennessee, Knoxville, Tennessee, July 18, 1997.
- Ousterhout, John K., *Tcl and the Tk Toolkit*, Addison-Wesley, Reading, MA, 1994, ISBN 0-201-63337-X.
- Pfister, Gregory, F., *In Search of Clusters*, Prentice Hall, 1998.

- Barrett, D., Silverman, R., *SSH The Secure Shell The Definitive Guide*, O'Reilly, 2001.

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