

Tivoli Workload Scheduler LoadLeveler



# Diagnosis and Messages Guide

*Version 3 Release 4*



Tivoli Workload Scheduler LoadLeveler



# Diagnosis and Messages Guide

*Version 3 Release 4*

**Note!**

Before using this information and the product it supports, be sure to read the information in "Notices" on page 143.

**Seventh Edition (October 2006)**

This edition applies to version 3, release 4 of IBM Tivoli Workload Scheduler LoadLeveler (product numbers 5765-E69 and 5724-I23) and to all subsequent releases and modifications until otherwise indicated in new editions. This edition replaces GA22-7882-05. 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 is designed for any user of IBM® Tivoli® Workload Scheduler (TWS) LoadLeveler® who needs to resolve a system message and respond to that message. This book lists all of the error messages generated by the TWS LoadLeveler software and its components and describes a likely solution for each message. Informational messages are not included.

**Note:** IBM LoadLeveler has been rebranded and is now referred to as “Tivoli Workload Scheduler LoadLeveler” (short name: TWS LoadLeveler). This change is intended to extend the existing Tivoli Workload Scheduler functionality to better address the cluster and Grid computing environments and to increase the availability of LoadLeveler.

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## Who should read this book

This book is designed for system programmers and administrators, but should be used by anyone responsible for diagnosing problems related to IBM TWS LoadLeveler. To use this book, you should be familiar with the AIX® and Linux® operating systems. Where necessary, some background information relating to AIX and Linux is provided. More commonly, you are referred to the appropriate documentation.

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## Conventions and terminology used in this book

Throughout the TWS LoadLeveler product documentation:

- TWS LoadLeveler for Linux on System x™ servers and TWS LoadLeveler for Linux on System servers with AMD Opteron or Intel® EM64T processors are referred to as TWS LoadLeveler for Linux Multiplatform. TWS LoadLeveler for Linux Multiplatform includes:
  - IBM System servers with AMD Opteron or Intel EM64T processors
  - IBM System x servers
  - IBM BladeCenter® Intel-based servers
  - IBM Cluster 1350™
- Note that in this document:
  - LoadLeveler is also referred to as Tivoli Workload Scheduler LoadLeveler and TWS LoadLeveler.
  - Switch\_Network\_Interface\_For\_HPS is also referred to as HPS or High Performance Switch.

Table 1 describes the typographic conventions used in this book.

*Table 1. Summary of typographic conventions*

Typographic	Usage
<b>Bold</b>	<ul style="list-style-type: none"><li>• <b>Bold</b> words or characters represent system elements that you must use literally, such as commands, flags, and path names.</li><li>• <b>Bold</b> words also indicate the first use of a term included in the glossary.</li></ul>
<i>Italic</i>	<ul style="list-style-type: none"><li>• <i>Italic</i> words or characters represent variable values that you must supply.</li><li>• <i>Italics</i> are also used for book titles and for general emphasis in text.</li></ul>

Table 1. Summary of typographic conventions (continued)

Typographic	Usage
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.

## Prerequisite and related information

The Tivoli Workload Scheduler LoadLeveler publications are:

- *Installation Guide*, GI10-0763
- *Using and Administering*, SA22-7881
- *Diagnosis and Messages Guide*, GA22-7882

To access all TWS LoadLeveler documentation, refer to the **IBM Cluster Information Center**, which contains the most recent TWS LoadLeveler documentation in PDF and HTML formats. This Web site is located at:

<http://publib.boulder.ibm.com/infocenter/clresctr/vxrx/index.jsp>

A **LoadLeveler Documentation Updates** file also is maintained on this Web site. The **LoadLeveler Documentation Updates** file contains updates to the TWS LoadLeveler documentation. These updates include documentation corrections and clarifications that were discovered after the TWS LoadLeveler books were published.

Both the current TWS LoadLeveler books and earlier versions of the library are also available in PDF format from the IBM Publications Center Web site located at: <http://www.ibm.com/shop/publications/order>

To easily locate a book in the IBM Publications Center, supply the book's publication number. The publication number for each of the TWS LoadLeveler books is listed after the book title in the preceding list.

## IBM System Blue Gene Solution documentation

Table 2 on page vii lists the IBM System Blue Gene<sup>®</sup> Solution publications that are available from the IBM Redbooks<sup>™</sup> Web site at the following URLs:

Table 2. IBM System Blue Gene Solution documentation

Publication Name	URL
<i>Blue Gene/L: System Administration</i>	<a href="http://www.redbooks.ibm.com/abstracts/sg247178.html">http://www.redbooks.ibm.com/abstracts/sg247178.html</a>
<i>Blue Gene/L: Hardware Overview and Planning</i>	<a href="http://www.redbooks.ibm.com/abstracts/sg246796.html">http://www.redbooks.ibm.com/abstracts/sg246796.html</a>
<i>Blue Gene/L: Application Development</i>	<a href="http://www.redbooks.ibm.com/abstracts/sg247179.html">http://www.redbooks.ibm.com/abstracts/sg247179.html</a>
<i>Unfolding the IBM eServer™ Blue Gene Solution</i>	<a href="http://www.redbooks.ibm.com/abstracts/sg246686.html">http://www.redbooks.ibm.com/abstracts/sg246686.html</a>

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## Using LookAt to look up message explanations

LookAt is an online facility that lets you look up explanations for most of the IBM messages you encounter, as well as for some system abends and codes. You can use LookAt from the following locations to find IBM message explanations for Clusters for AIX and Linux:

- The Internet. You can access IBM message explanations directly from the LookAt Web site:  
<http://www.ibm.com/eserver/zseries/zos/bkserv/lookat/>
- Your wireless handheld device. You can use the LookAt Mobile Edition with a handheld device that has wireless access and an Internet browser (for example, Internet Explorer for Pocket PCs, Blazer, or Eudora for Palm OS, or Opera for Linux handheld devices). Link to the LookAt Mobile Edition from the LookAt Web site.

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## How to send your comments

Your feedback is important in helping us to produce accurate, high-quality information. If you have any comments about this book or any other TWS LoadLeveler documentation:

- Send your comments by e-mail to: [mhvrcfs@us.ibm.com](mailto:mhvrcfs@us.ibm.com)  
Include the book title and order number, and, if applicable, the specific location of the information you have comments on (for example, a page number or a table number).
- Fill out one of the forms at the back of this book and return it by mail, by fax, or by giving it to an IBM representative.

To contact the IBM cluster development organization, send your comments by e-mail to: [cluster@us.ibm.com](mailto:cluster@us.ibm.com)



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## Summary of changes

The following sections summarize changes to the IBM Tivoli Workload Scheduler (TWS) LoadLeveler product and TWS LoadLeveler library for each new release or major service update for a given product version. Within each book in the library, a vertical line to the left of text and illustrations indicates technical changes or additions made to the previous edition of the book.

Changes to TWS LoadLeveler for this release or update include:

- **New information:**

- Enhanced job spool recovery has been added:
  - The **llmovespool** command has been added to move the job records from the spool of one managing Schedd to another managing Schedd in the local cluster.
  - The Move Spool menu item has been added to the Machines window **Admin** pull-down menu in the graphical user interface (GUI) to allow you to move job spool records from the specified spool directory to the Schedd daemon that is running on the selected machine.
- A new communication scheme has been introduced in TWS LoadLeveler to provide reliable and fast job launch performance and improved scalability.
- Multiple top-dog support has been incorporated into the TWS LoadLeveler BACKFILL scheduler, which allows one or more top dogs to be allocated a future start time. The TWS LoadLeveler scheduler will determine that there are insufficient resources for some jobs to start, and for those jobs, it will compute the earliest future start times. The resources will be allocated to the top-dog jobs and remaining jobs in the queue will be backfilled so that top-dog jobs are not delayed.
- Coscheduling function has been added to:
  - Enable TWS LoadLeveler to coschedule multiple job steps while placing minimal restrictions on the type and number of resource requirements that can be specified within the coscheduled job steps
  - Allow coscheduled job steps to take advantage of the current state-of-the-art job scheduling paradigms, such as top-dog reservation, BACKFILL, preemption, and reservations, which are presently supported in the TWS LoadLeveler product
- The following TWS LoadLeveler Blue Gene support has been enhanced, including:
  - Advance reservations has been extended to include the reservation of Blue Gene resources.
  - Fair share scheduling has been extended to include Blue Gene resources. The Blue Gene resource usage is an additional set of information that is made available by TWS LoadLeveler, which can be used to influence job priorities.
  - TWS LoadLeveler now allows users to request Blue Gene compute nodes (C-nodes) with a certain amount of memory in the same way as TWS LoadLeveler currently allows for non-Blue Gene nodes.
  - Preemption support for Blue Gene jobs has been enabled, so Blue Gene jobs now have the same preemption support as non-Blue Gene jobs.

- The TWS LoadLeveler product has been extended to include support for InfiniBand adapters in SUSE Linux Enterprise Server (SLES) 9 on POWER™ TWS LoadLeveler clusters. InfiniBand adapters on any other platform are not supported. This support does not place new constraints on the submit nodes or where the central manager runs. Preemption is not supported on TWS LoadLeveler for Linux when running in an InfiniBand cluster environment.
- Support for SLES 10 has been added.

**Note:** SLES 10 is not supported on the Myrinet switch.

- MPICH job management has been integrated with TWS LoadLeveler. Operations allowed for Parallel Environment (PE) parallel jobs are supported for MPICH parallel jobs.
- The **smt** keyword has been introduced in the TWS LoadLeveler job command file to enable or disable dynamic simultaneous multithreading (SMT). This keyword can also be set in the job class stanza in the TWS LoadLeveler administration file so that all parallel jobs submitted in that class will run with SMT on or off by default.
- The restriction on the maximum number of reservations allowed in a cluster has been removed.
- OpenAFS 1.4.1 is now supported on the RedHat Enterprise Linux 3.0 and RedHat Enterprise Linux 4.0 distributions on the x86 and x86\_64 platforms. If you are using TWS LoadLeveler with OpenAFS 1.2.11 on RedHat Enterprise Linux 3.0 you will need to upgrade to OpenAFS 1.4.1 when you upgrade to this version of TWS LoadLeveler.
- In this release of TWS LoadLeveler, we are offering you an opportunity to preview our first steps toward a Web-based user interface with sample programs. Your input is invaluable in our efforts to revitalize and modernize our user interface. For more information, see the README file for the sample in the **samples/llwebui** subdirectory of the release directory.
- A new topic has been added to help you find information about quickly starting TWS LoadLeveler using the default configuration. For more information, see the "Getting a quick start using the default configuration" topic in *TWS LoadLeveler: Using and Administering*.
- A new topic has been added to help you find TWS LoadLeveler port usage information. For more information, see the "LoadLeveler port usage" topic in *TWS LoadLeveler: Using and Administering*.

- **Changed information:**

- Release 3 of TWS LoadLeveler no longer supports switches other than the SP™ Switch2 and the High Performance Switch.
- In previous releases of TWS LoadLeveler, when a job is submitted it automatically gets a **requirements** statement defined for the Arch and Opsys LoadLeveler reserved words. The values assigned are determined by the operating system and node where the submission parsing was done. For example:

```
Requirements: (Arch == "R6000") && (OpSys == "AIX52")
```

In this release of TWS LoadLeveler, this automatic definition of the **requirements** keyword has been removed. Administrators still need to use the **lldbconvert** utility to convert jobs from TWS LoadLeveler 3.3 to the TWS LoadLeveler 3.4 format.

- This is the last release that will provide the following functions:
  - The scheduling of parallel jobs with the default scheduler (**SCHEDULER\_TYPE=LL\_DEFAULT**)

- The following API functions: `ll_get_nodes`, `ll_get_jobs`, and `ll_start_job`
- **Deleted information:**

The following function is no longer supported and the information has been removed:

  - Gang scheduler
  - Network queuing system (NQS)
  - SP Switch (`csss`, `css0`, and `css1`)
  - Distributed Computing Environment (DCE)
  - Parallel Job API
  - Parallel System Support Programs (PSSP)



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## Chapter 1. Error logging facility

### Linux notes

This topic applies to AIX 5L™ only.

TWS LoadLeveler performs error recording by using the AIX error logging facility.

Subsystems that perform a service or function on behalf of an end user often need to report important events (primarily errors). Because these subsystems cannot communicate directly with the user, they write messages to persistent storage. This process is called error logging, and the logged information is used for debugging.

TWS LoadLeveler uses AIX error log facilities to report events on a per-machine basis. The AIX error log should be the starting point for diagnosing system problems. For more information on AIX error log facilities, see *AIX General Programming Concepts: Writing and Debugging Programs*.

Error log reports include a “DETECTING MODULE” string, which contains information identifying the exact point from which a specified error was reported (for example, software component, module name, module level, and line of code or function). The DETECTING MODULE string’s format depends on the user’s particular logging facility. For example, the AIX Error Log facility information appears as:

```
DETECTING MODULE  
LPP=LPP name Fn=filename SID_level_of_the_file L#=Line number
```

---

### What events are recorded

The TWS LoadLeveler error logging facility records the following events:

- A TWS LoadLeveler daemon fails its initial start up
- TWS LoadLeveler is improperly customized
- The **LoadL\_master** detects a crashing daemon
- A daemon changes state
- TWS LoadLeveler experienced an error during file I/O of the configuration file or the job status files

---

### Viewing TWS LoadLeveler error log reports

Enter the following command to view a machine’s TWS LoadLeveler error reports:

```
errpt -a -N LoadLeveler
```

---

### Clearing all TWS LoadLeveler error log entries

Enter the following command to clear all of a machine’s TWS LoadLeveler error log entries:

```
errclear -N LoadLeveler 0
```

---

## Error notification

You can use the AIX Error Notification Facility to notify you of a TWS LoadLeveler error when it occurs. This facility will perform an ODM method defined by the administrator when a particular error occurs or a particular process fails. *AIX General Programming Concepts: Writing and Debugging Programs* explains how to use the AIX Error Notification Facility.

---

## How error log events are classified

Each error report begins with the error's label; every label has a suffix which categorizes each error by type (for example, unknown). Table 3 shows each error log suffix, what type of error the suffix implies, and a brief description of what this means to the user.

Table 3. TWS LoadLeveler error label suffixes mapped to AIX error log

Error label suffix	AIX error log error type	AIX error log description
ER	PERM	There can be no recovery from this condition. A permanent error occurred.
ST	UNKN	It is not possible to determine the severity of the error.

---

## Sample error log

The following is a sample TWS LoadLeveler error report:

```
LABEL:          LL_CRASH_ER
IDENTIFIER:     FDD5FA3A

Date/Time:      Fri Jan 20 13:45:55 2006
Sequence Number: 344133
Machine Id:     000019804C00
Node Id:        c94n13
Class:          S
Type:           PERM
Resource Name:  LoadLeveler

Description
Abnormal daemon termination

Probable Causes
Deamon received a signal

Failure Causes
Daemon coredump

Recommended Actions
Examine LoadLeveler logs for details
Examine resulting core dump
Call IBM service

Detail Data
DETECTING MODULE
File:DaemonProcess.C, SCCS:1.3, Line:189
DIAGNOSTIC EXPLANATION
The LoadL_startd (process 23772) died.
```

## Possible causes for TWS LoadLeveler errors

Table 4 contains common error labels; for each error label, the table provides: a description of the symptom, a list of likely causes, and the appropriate user response.

Table 4. Possible causes for TWS LoadLeveler failure

<p><b>Label:</b> LL_START_ER <b>Error Type:</b> PERM <b>Diagnostic Explanation:</b> LoadL_master owner must be root, and set-user-id bit set. Exiting.</p> <p><b>Explanation:</b> The ownership and permissions of the <b>LoadL_master</b> file are incorrect.</p> <p><b>Cause:</b> This error occurs for one of the following reasons:</p> <ul style="list-style-type: none"><li>• The <b>LoadL_master</b> file is not owned by the root user</li><li>• The <b>LoadL_master</b> file does not have Set User ID permission (the <b>-s</b> flag)</li></ul> <p><b>Action:</b> Perform the following actions:</p> <ul style="list-style-type: none"><li>• Issue the command: <b>chown root LoadL_master</b></li><li>• Issue the command: <b>chmod u+s LoadL_master</b></li><li>• Restart TWS LoadLeveler</li></ul>
<p><b>Label:</b> LL_START_ER <b>Error Type:</b> PERM <b>Diagnostic Explanation:</b> This machine is not in the machine list. Exiting.</p> <p><b>Explanation:</b> You attempted to start TWS LoadLeveler on a machine that is not defined in the <b>LoadL_admin</b> file, and <b>MACHINE_AUTHENTICATE = TRUE</b> is set in the <b>LoadL_config</b> file.</p> <p><b>Action:</b> Do one of the following:</p> <ul style="list-style-type: none"><li>• Define the machine in the <b>LoadL_admin</b> file</li><li>• Set <b>MACHINE_AUTHENTICATE = FALSE</b> in the <b>LoadL_config</b> file</li></ul> <p>Then, restart TWS LoadLeveler on the machine where the problem occurred.</p>
<p><b>Label:</b> LL_DAEMON_ST <b>Error Type:</b> UNKN <b>Diagnostic Explanation:</b> START_DAEMONS flag was set to <i>value</i>. Exiting.</p> <p><b>Explanation:</b> <b>LoadL_master</b> could not start the TWS LoadLeveler daemons.</p> <p><b>Cause:</b> The <b>START_DAEMONS</b> keyword was not defined, or was set to <b>False</b>.</p> <p><b>Action:</b> Set <b>START_DAEMONS = true</b>.</p>

Table 4. Possible causes for TWS LoadLeveler failure (continued)

<p><b>Label:</b> LL_START_ER</p> <p><b>Error Type:</b> PERM</p> <p><b>Diagnostic Explanation:</b> <i>keyword</i> not specified in config file. Exiting.</p> <p><b>Explanation:</b> The specified keyword is not defined correctly.</p> <p><b>Cause:</b> This error occurs for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• The keyword value is equal to a blank</li> <li>• The keyword is misspelled</li> <li>• The keyword is commented out</li> <li>• The keyword is missing</li> </ul> <p><b>Action:</b> Define the keyword correctly.</p>
<p><b>Label:</b> LL_START_ER</p> <p><b>Error Type:</b> PERM</p> <p><b>Diagnostic Explanation:</b> <i>keyword=value</i> cannot execute</p> <p><b>Explanation:</b> TWS LoadLeveler was unable to execute the specified keyword (binary).</p> <p><b>Cause:</b> This error occurs for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• The binary does not have execute permission</li> <li>• The binary name was misspelled</li> <li>• The binary does not exist</li> </ul> <p><b>Action:</b> Correct the problem, then reissue the keyword.</p>
<p><b>Label:</b> LL_FILE_IO_ER</p> <p><b>Error Type:</b> PERM</p> <p><b>Diagnostic Explanation:</b> Cannot open file <i>filename</i></p> <p><b>Explanation:</b> TWS LoadLeveler was unable to open the specified file.</p> <p><b>Cause:</b> This error occurs for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• Incorrect permissions are set for the file</li> <li>• The file does not exist</li> </ul> <p><b>Action:</b> Correct the problem with the file.</p>
<p><b>Label:</b> LL_CRASH_ER</p> <p><b>Error Type:</b> PERM</p> <p><b>Diagnostic Explanation:</b> The <i>daemon_name</i> (process <i>pid</i>) died</p> <p><b>Explanation:</b> The specified daemon died.</p> <p><b>Cause:</b> This error occurs for one of the following reasons:</p> <ul style="list-style-type: none"> <li>• The daemon received a signal</li> <li>• The daemon experienced an unrecoverable error</li> </ul> <p><b>Action:</b> Examine the TWS LoadLeveler error logs for more information.</p>

Table 4. Possible causes for TWS LoadLeveler failure (continued)

<p><b>Label:</b> LL_DAEMON_ST  <b>Error Type:</b>  UNKN  <b>Diagnostic Explanation:</b>  Started <i>daemon_name</i>, pid and pgroup=<i>pid</i></p> <p><b>Explanation:</b>  The specified daemon started.  <b>Action:</b> None. This is an informational message.</p>
<p><b>Label:</b> LL_DAEMON_ST  <b>Error Type:</b>  UNKN  <b>Diagnostic Explanation:</b>  Received SHUTDOWN command.  Received RECONFIG command.</p> <p><b>Explanation:</b>  <b>LoadL_master</b> received the specified commands.  <b>Cause:</b> The <b>llctl</b> command was issued with either the <b>stop</b>, or the <b>reconfig</b> keyword.  <b>Action:</b> None. This is an informational message.</p>
<p><b>Label:</b> LL_CMR_ST  <b>Error Type:</b>  UNKN  <b>Diagnostic Explanation:</b>  Alternate central manager <i>cent_manager</i> will become active central manager.</p> <p><b>Explanation:</b>  TWS LoadLeveler performed central manager recovery.  <b>Cause:</b> The backup central manager was unable to contact the primary central manager.  <b>Action:</b> Examine the TWS LoadLeveler error logs and the administrator mail for more information.</p>
<p><b>Label:</b> LL_CMR_ST  <b>Error Type:</b>  UNKN  <b>Diagnostic Explanation:</b>  Alternate central manager <i>cent_manager</i> will return to stand-by state.</p> <p><b>Explanation:</b>  TWS LoadLeveler performed central manager recovery.  <b>Cause:</b> The backup central manager gave control back to the primary central manager.  <b>Action:</b> None. This is an informational message.</p>

Table 4. Possible causes for TWS LoadLeveler failure (continued)

<p><b>Label:</b> LL_CMV_ST <b>Error Type:</b> UNKN <b>Diagnostic Explanation:</b> <i>machine</i> is unable to serve as alternate central manager.</p> <p><b>Explanation:</b> The specified machine cannot be the alternate central manager because the appropriate negotiator keyword is either defined incorrectly, or not defined for this machine.</p> <p><b>Cause:</b> The specified machine was defined as the central manager. <b>Action:</b> Define the appropriate keywords.</p>
<p><b>Label:</b> LL_FILE_IO_ER <b>Error Type:</b> PERM <b>Diagnostic Explanation:</b> Status file I/O error occurred in execute directory.</p> <p><b>Explanation:</b> An error occurred while accessing the Status file.</p> <p><b>Causes:</b> Incorrect permissions set for file. Incorrect permissions set for directory.</p> <p><b>Action:</b> Examine the TWS LoadLeveler logs for details. Correct the problem with the file.</p>

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## Chapter 2. Problem determination and resolution procedures

This topic provides problem determination information as well as procedures for resolving problems.

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### Related documentation

1. See the following topics in *TWS LoadLeveler: Using and Administering* for useful information on diagnosing problems:
  - *Troubleshooting*
  - *LoadLeveler interfaces reference* - contains information on command syntax and valid keyword values
2. See *Switch Network Interface for eServer pSeries® High Performance Switch Guide and Reference* for information on the NTBL services and related error messages.
3. See *RSCT for AIX 5L: Administration Guide* for information on how to administer cluster security services for an RSCT peer domain.
4. See the MPICH Web site to download the MPICH software and access the MPICH documentation at:  
<http://www-unix.mcs.anl.gov/mpi/mpich/>
5. See the Myrinet Web site to download the Myrinet software and access the Myrinet documentation at:  
<http://www.myri.com/scs/>

---

### Requisite function

TCP/IP is used to provide communication between TWS LoadLeveler daemons.

TWS LoadLeveler optionally uses the following:

- The TWS LoadLeveler command, **llextrPD**, uses the Resource Monitoring and Control (RMC) API to extract information from the Reliable Scalable Cluster Technology (RSCT) peer domain.
- TWS LoadLeveler uses the cluster security services component of RSCT.

---

### Error information

The primary sources of error information elicited from TWS LoadLeveler are:

- TWS LoadLeveler log files
- Output to standard output and standard error from TWS LoadLeveler commands and APIs
- Mail notification to the TWS LoadLeveler user about job steps
- Mail notification to the TWS LoadLeveler user or administrator
- AIX error log files

This topic provides detailed information on these error conditions, including information on transient error data warnings.

#### TWS LoadLeveler log files

TWS LoadLeveler log files include messages indicating what the daemon or process is doing and when that processing is occurring, using timestamps. This

includes what transactions being received from and sent to other daemons or processes, and indication of error conditions encountered. Indication of transactions sent to daemons as a result of invoking TWS LoadLeveler commands are also included in the daemon logs.

There is a separate log for each TWS LoadLeveler daemon and for each of the starter processes on each machine in the TWS LoadLeveler cluster. The starter logs are appended with the process ID of the starter process and exist as long as the starter processes are running. Upon each job's termination, the individual starter logs are appended to a single starter log.

By default, TWS LoadLeveler stores only the two most recent iterations of a daemon's log file (*<daemon name>Log*, and *<daemon name>Log.old*). Occasionally, for problem diagnosing, users will need to capture TWS LoadLeveler logs over an extended period. Users can specify that all log files be saved to a particular directory by using the **SAVELOGS** keyword in a local or global configuration file. Be aware that TWS LoadLeveler does not provide any way to manage and clean out all of those log files, so users must be sure to specify a directory in a file system with enough space to accommodate them. This file system should be separate from the one used for the TWS LoadLeveler **log**, **spool**, and **execute** directories.

Each log file is represented by the name of the daemon that generated it, the exact time the file was generated, and the name of the machine on which the daemon is running.

See *TWS LoadLeveler: Using and Administering* for information on how to control log file contents and maximum size information. You can find a job step by name in the logs by using the vi editor and looking for **JOB\_START** or other job states.

TWS LoadLeveler log files are not translated.

## Output to standard output and standard error from TWS LoadLeveler commands or APIs

TWS LoadLeveler commands write messages to the standard output and standard error file descriptors. The APIs will not write to standard output and standard error unless the error is severe. If more information is needed during the execution of an API, you can set the **LLAPIERRORMSGS** environment variable to **yes** in the environment that is invoking the API. Messages written to standard output are generally informational, while those written to standard error generally identify and provide information about a problem encountered while executing the command or API call.

The messages are limited in scope to the execution of the command or API call.

## Mail notification to the TWS LoadLeveler user about job steps

Jobs can be submitted to request that e-mail be sent to a specified user whenever a job step starts, completes, or incurs error conditions, or to request that no e-mail is sent. The e-mail includes the specific date and time that the job step started, completed, or encountered an error. Upon job step completion, the exit status returned from the job is included in the notification e-mail.

**Note:** If running in a Linux environment, it is important for system administrators to set up mail correctly to ensure that troubleshooting information is not lost.

| Is the information in the following paragraph redundant? The first paragraph  
| contains similar information.

| The scope of the mail notification to TWS LoadLeveler users includes notification  
| of job step start, completion, or error condition for a particular job step to a  
| specified user ID.

## | **Mail notification to the TWS LoadLeveler administrators**

| TWS LoadLeveler will automatically send e-mail to the list of administrator IDs  
| specified in the TWS LoadLeveler global configuration file to notify of error  
| conditions in the TWS LoadLeveler cluster.

| Mail notification is limited to a given TWS LoadLeveler cluster and its  
| administrators.

## | **AIX error log**

| See Chapter 1, "Error logging facility," on page 1 for a discussion of AIX error logs  
| and specific errors recorded by TWS LoadLeveler.

---

## **Dump information**

TWS LoadLeveler daemon dumps leave core files in **/tmp** named "core". On Linux, the name of a core file is either "core" or "core.nnnn", where *nnnn* is a string of digits representing the process ID of the associated core file. TWS LoadLeveler command dumps leave core files in the present working directory. Subsequent core dumps will overwrite an existing core file. This is particularly likely in **/tmp**. For this reason, if a core dump is encountered, it is a good idea to copy the file to another directory, preserving or noting its time of creation. You can preserve the original time and date by using the **-p** option on the copy command.

You can specify alternate directories to contain core files for the different TWS LoadLeveler daemons and processes using the following TWS LoadLeveler configuration file keywords.

```
MASTER_COREDUMP_DIR  
NEGOTIATOR_COREDUMP_DIR  
SCHEDD_COREDUMP_DIR  
STARTD_COREDUMP_DIR  
GSMONITOR_COREDUMP_DIR  
KBDD_COREDUMP_DIR  
STARTER_COREDUMP_DIR
```

**Note:** When specifying core file directories, you must ensure that the access permissions are set so that the TWS LoadLeveler daemon or process can write to the core file directory. The simplest way to be sure that the access permissions are set correctly is to make them the same as they are for the **/tmp** directory.

See *TWS LoadLeveler: Using and Administering* for additional information on core dump directory keywords.

---

## Missing dump data warnings

A core file may not be able to be written, or written completely, if the directory becomes full. This can happen easily to **/tmp** if many programs are writing to **/tmp** or if excessive data is saved to **/tmp**. If TWS LoadLeveler cannot write the core file to **/tmp** for a daemon core dump, no core file is saved. For keywords allowing you to specify directories other than **/tmp**, see “Dump information” on page 9. For information on file system monitoring as a way to be notified and to take the appropriate action when TWS LoadLeveler file systems start to become full, see *TWS LoadLeveler: Using and Administering*.

On Linux, a core file is not generated when a TWS LoadLeveler daemon terminates abnormally, unless you run the daemons as **root** or change the default kernel core file creation behavior of **setuid** programs.

Although a TWS LoadLeveler daemon begins its existence as a **root** process, it uses the system functions **seteuid()** and **setegid()** to switch to effective user ID of **loadl** and effective group ID of **loadl** immediately after start up if the file **/etc/LoadL.cfg** is not defined. If this file is defined, the user ID associated with the **LoadLUserid** keyword and the group ID associated with the **LoadLGroupid** keyword are used instead of the default **loadl** user and group IDs.

On Linux systems, unless the default kernel runtime behavior is modified, the standard kernel action for a process that has successfully invoked **seteuid()** and **setegid()** to have a different effective user ID and effective group ID is not to dump a core file. So, if you want Linux to create a core file when a TWS LoadLeveler daemon terminates abnormally, you must use the file **/etc/LoadL.cfg** to set both **LoadLUserid** and **LoadLGroupid** to **root**.

On Red Hat® Enterprise Linux 3.0 systems, the command:

```
sysctl -w kernel.core_setuid_ok=1
```

can be used to change the default kernel core file creation behavior of **setuid** programs. If the **core\_setuid\_ok** option is enabled, the values of **LoadLUserid** and **LoadLGroupid** in the **/etc/LoadL.cfg** file do not have to be **root** for the successful creation of TWS LoadLeveler core files. In addition, core files may not be dumped if the limit for the core file size is set to zero. This can be confirmed by issuing the command:

```
ulimit -c
```

If the returned core file size is 0 (zero), issue the following command to remove the restriction on the core file size:

```
ulimit -Sc unlimited
```

Alternatively, the soft core limit can be set up in **/etc/security/limits.conf** by adding the following line:

```
##* soft core unlimited
```

---

## Error data translation warnings

TWS LoadLeveler daemon logs are not translated.

---

## Trace information

The content of TWS LoadLeveler daemon and process log files can be controlled by the TWS LoadLeveler administrator by specifying debug control statements in the local and global configuration files. The debug control statements contain debug flags which tell TWS LoadLeveler what type of output to include in the specified log file. For additional information on configuring recording activity and log files, see *TWS LoadLeveler: Using and Administering*.

---

## Trace data translation warnings

TWS LoadLeveler logs are not translated.

---

## Information to collect prior to contacting IBM Service

Having the following information ready before calling IBM Service will help to isolate problem conditions.

- A description of the problem or failure, and an indication of what workload was occurring when the problem or failure occurred
- The level of TWS LoadLeveler installed. On AIX, use `lspp -h fileset_name`. On Linux, use `rpm -qa | grep LoadL` to determine the level of TWS LoadLeveler installed. If different levels of TWS LoadLeveler are being run in the cluster, indicate which level is being run on each machine.
- `llctl version` output to identify level of TWS LoadLeveler running on all machines
- The TWS LoadLeveler configuration and administration files. If local configuration files are being used on machines that are involved in the specified problem, include them also.
- Description of configuration - `/etc/LoadL.cfg` **LoadL\_config**, local config and **LoadL\_admin** files
- The TWS LoadLeveler daemon and process log files. These files will exist for each machine running TWS LoadLeveler daemons. They may exist in a file system on the machine, or in a shared file system such as GPFS; their location and maximum size are configurable by the TWS LoadLeveler administrators.
- Job output and error files.
- Output to standard output and standard error from TWS LoadLeveler commands and APIs. This output must be manually re-created and saved to file.
- The core dump files from TWS LoadLeveler daemons or commands; these will exist on the system if a daemon or command died and was able to write a core file.
- The AIX Error Log.
- Whether the TWS LoadLeveler cluster is reading config files from a shared file system, or if the config files reside on each node. Are the **LoadL\_config** files the same on each node? How about the **LoadL\_admin** file?
- Is AFS<sup>®</sup> being used?
- Is the TWS LoadLeveler cluster on an RSCT peer domain, or on a cluster of TCP/IP-connected workstations?
- Is GPFS being used?
- Is there a switch on the RSCT peer domain? If so, what kind?
- Is the problem occurring with the daemons or the commands?
- Are daemons running as expected?

- Are jobs being submitted as expected?
- Are jobs running as expected?
- Are you running in a multicluster environment?

---

## Diagnostic procedures

You can submit a series of jobs to verify that TWS LoadLeveler is operating properly as described in “Instructions for performing test.”

### Instructions for performing test

1. Configure TWS LoadLeveler and bring up the TWS LoadLeveler cluster.
2. Start TWS LoadLeveler as detailed in the *TWS LoadLeveler: Installation Guide*.
3. Check that all the expected machines are running the TWS LoadLeveler daemons; use the **llstatus** command to do this.
4. Run the **llstatus -a** command to verify that all machines have the expected adapters and that all switch adapters are in the READY state.
5. If you intend to run parallel jobs and your TWS LoadLeveler cluster includes an RSCT peer domain with a switch, then you should verify that the machine and the adapters are configured and operating correctly by running the parallel jobs in the samples directory, **/usr/lpp/LoadL/full/samples**, (*ipen0.cmd*, *ipsnsingle.cmd*, *ussnall.cmd*). You must read the parallel job command files because a C program must be compiled to use them. Instructions are provided in the job command files.
6. If you intend to run MPICH, MPICH-GM, or MVAPICH parallel jobs on your TWS LoadLeveler cluster, you should use the **mpich\_cmp.sh**, **mpich\_gm\_cmp.sh**, and **mvapich\_cmp.sh** shell scripts. These shell scripts are located in the **/opt/ibmll/LoadL/full/samples/llmpich** directory for Linux and in the **/usr/lpp/LoadL/full/samples/llmpich** directory for AIX and are used to compile the appropriate binaries before submitting the **mpich\_ivp.cmd** and **mpich\_gm\_ivp.cmd** job command files to TWS LoadLeveler.  
 Before using the **mpich\_cmp.sh**, **mpich\_gm\_cmp.sh**, and **mvapich\_cmp.sh** scripts, you should first view the scripts, then edit them to match the platform and MPICH version for which the binaries will be built. Appropriate instructions can be found in the script as comments.

Table 5 shows diagnosis tests that you can run for both serial and parallel jobs on your TWS LoadLeveler cluster.

*Table 5. Diagnosis tests to run*

Suite	Test	Job command file	Test description
Serial			
	Test 1	job1.cmd	Simple serial job running a shell script in the job command file
	Test 2	job2.cmd	Checkpointing job
	Test 3	job3.cmd	Simple serial job running a compiled C program
Parallel			
	Test 4	ipen0.cmd	Parallel job using IP over en0
	Test 5	ipsnsingle.cmd	TWS LoadLeveler for AIX parallel job using IP over a single network

Table 5. Diagnosis tests to run (continued)

Suite	Test	Job command file	Test description
	Test 6	ussnall.cmd	TWS LoadLeveler for AIX parallel job using US over multiple networks, multiple tasks per node.
	Test 7	mpich_ivp.cmd	TWS LoadLeveler parallel MPICH job
	Test 8	mpich_gm_ivp.cmd	TWS LoadLeveler parallel MPICH-GM job using the Myrinet switch

## Instructions to verify test

If the jobs do not run, then use `llq -s` to find out why. See the troubleshooting topic in *TWS LoadLeveler: Using and Administering*. If the jobs do run, use `llq` to monitor their status. When the jobs have completed, inspect output and error files from the jobs; see the job command files for where the output and error files will be written.

## Actions to take if test failed

If the jobs did not run or if they ran but terminated with a nonzero exit code, see the troubleshooting topic in *TWS LoadLeveler: Using and Administering*. If the problem persists, then contact IBM Service.



---

## Chapter 3. Tivoli Workload Scheduler LoadLeveler messages

This topic includes TWS LoadLeveler error messages.

---

### 2512 Error messages

This topic includes TWS LoadLeveler general error messages.

---

**2512-001**     **Cannot chdir to *directory\_type* *directory*, *directory\_name* on *hostname*. *uid=uid* *errno=error number*.**

**Explanation:** The `chdir` system call failed for the specified directory.

**User response:** Verify that the directory exists, and that the user has permission to access it.

---

**2512-002**     **Cannot open file *filename* in mode *mode name*. *errno=error\_num* [*error\_msg*].**

**Explanation:** The `open` system call failed for the specified file.

**User response:** Verify that the directory and file exist, and that the user has permission to access them.

---

**2512-003**     **Cannot create the *directory\_type* *directory*, *directory\_name*, on *hostname*. *uid=uid* *errno=error\_num* *error\_msg*.**

**Explanation:** The `mkdir` system call failed for the specified directory.

**User response:** Verify that the directory does not already exist, and that the user has permission to create it.

---

**2512-004**     **Cannot create pipe for *program\_name*. *errno=error\_num* [*error\_msg*].**

**Explanation:** The `pipe` system call failed.

**User response:** Correct the problem indicated by the error number.

---

**2512-005**     **Open failed for file *filename*, *errno* = *error\_number*.**

**Explanation:** The `open` system call failed for the specified file.

**User response:** Verify that the directory and file exist and that you have permission to access them.

---

**2512-006**     **Cannot continue.**

**Explanation:** An error occurred while running the specified command; the command cannot recover.

**User response:** Retry the command. If the problem persists, contact IBM service.

---

**2512-007**     **LOADL\_ADMIN not specified in configuration file! No administrator commands are permitted.**

**Explanation:** The `LoadL_config` file does not contain a list of LoadLeveler administrators. Even if CtSec is enabled, the configuration file must contain a list of users who are to receive mail for problem notification.

**User response:** Add a `LOADL_ADMIN` entry containing one or more administrator uids to the `LoadL_config` file.

---

**2512-010**     **Unable to allocate memory.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2512-016**      **Unable to write file *filename*.**

**Explanation:** A system call to write to the specified file failed. Other possible reasons for the failure are that the file cannot be created or accessed.

**User response:** Verify that the file can be created, that it has write permissions, and that the file system containing it is not full.

---

**2512-017**      **Command transmission to LoadL\_schedd on host *hostname* failed.**

**Explanation:** The command cannot contact or send data to the **LoadL\_schedd** daemon.

**User response:** Verify that the **LoadL\_schedd** daemon is running on the specified host, and that the host can be accessed on the network.

---

**2512-019**      **Job ids must not be specified when host or user names are also specified.**

**Explanation:** You cannot specify job IDs with host or user names.

**User response:** Specify either a job list, or a host or user list with the command.

---

**2512-020**      **Internal error: error (file: *filename* line: *line\_number*).**

**Explanation:** You cannot specify job IDs with host or user names.

**User response:** Verify that the **LoadL\_schedd** daemon is running on the specified host, and that the host can be accessed on the network.

---

**2512-021**      **Cannot connect to LoadL\_schedd on host *hostname*.**

**Explanation:** The specified command could not contact the **LoadL\_schedd** daemon.

**User response:** Verify that the **LoadL\_schedd** daemon is running on the specified host, and that the host can be accessed on the network.

---

**2512-023**      **Could not obtain configuration data.**

**Explanation:** The specified command cannot open or read the LoadLeveler configuration files.

**User response:** Verify that all of the configuration and administration files exist, and that the user has access to them.

---

**2512-024**      **Error occurred getting cluster hostnames.**

**Explanation:** The specified command cannot obtain the list of hosts in the LoadLeveler cluster. The failure may be due to an error opening or reading the LoadLeveler configuration files, or to a syntax error in one of the configuration files.

**User response:** Verify that all of the configuration and administration files exist, and that the user has access to them. Retry the command. If the problem persists, contact IBM service.

---

**2512-025**      **Only the LoadLeveler administrator is permitted to issue this command.**

**Explanation:** The specified command must be issued by a LoadLeveler administrator. The user is not listed as an administrator in the LoadLeveler configuration file.

**User response:** Have an administrator issue the command, or have an administrator add the user to the LoadLeveler configuration file's **LOADL\_ADMIN** list. If CtSec is enabled, the user's mapped identity must be a member of the group specified by **SEC\_ADMIN\_GROUP**.

---

---

**2512-027**     **Dynamic load of *filename* from *system\_name* failed. *errno*=*error\_num* [*error\_msg*].**

**Explanation:** The **load** system call failed for the specified file.

**User response:** Verify that the specified file has been installed in the correct directory, and that it has the correct permissions.

---

**2512-028**     **ERROR *error* at line *line\_num* in file *filename*.**

**Explanation:** A LoadLeveler daemon or command terminated as a result of detecting corrupted internal data.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-029**     **Cannot establish UNIX domain listen socket for *path*, *pathname*. *errno*=*error\_num* [*error\_msg*].**

**Explanation:** The **listen** system call failed. A LoadLeveler process was attempting to listen on a UNIX® domain socket to communicate with another process.

**User response:** Correct the problem indicated by the error number.

---

**2512-030**     **Cannot stat file *filename*.**

**Explanation:** The **stat** system call failed for the specified file.

**User response:** Verify that the file exists, and that it has the appropriate permissions.

---

**2512-031**     **Cannot change mode on file *filename* to *file permissions*.**

**Explanation:** The **chmod** system call failed while attempting to change permissions on the specified file.

**User response:** Verify that the file exists, and that it has the appropriate permissions.

---

**2512-032**     **Cannot open file *filename*. *errno* = *error num*.**

**Explanation:** The **open** system call failed for the specified file.

**User response:** Verify that the directory and file exist, and that the user has permission to access them.

---

**2512-033**     **Cannot open file *filename*.**

**Explanation:** The **open** system call failed for the specified file.

**User response:** Verify that the directory and file exist, and that the user has permission to access them.

---

**2512-034**     **File *file* not found.**

**Explanation:** The specified file does not exist.

**User response:** Verify that the directory and file exist, and that the user has permission to access them.

---

**2512-035**     **Cannot read file *file*.**

**Explanation:** The specified file cannot be read because the permissions are incorrect. Other possible reasons for the failure are that the file does not exist or that the file data is in the wrong format.

**User response:** Verify that the directory and file exist, that the format of the file is correct, and that the user or daemon has permission to access them.

---

**2512-036**     **Unable to invoke *path*, *retcode* = *code*, *errno* = *errno*.**

**Explanation:** The specified calling program failed to invoke an installation exit routine.

**User response:** Verify that the directory and file exist, and that the user has execute permission.

---

---

**2512-037** User *username* failed user name validation on host *hostname*.

**Explanation:** A user is required to have the same UID on the host from which a command is issued and the host which receives the command.

**User response:** Verify that the specified user has the same UID on all hosts in the LoadLeveler cluster including submit only machines.

---

**2512-038** The *specified\_option* option and the *specified\_option* option are not compatible.

**Explanation:** The command was issued with conflicting options.

**User response:** Reissue the command using at most one of these options.

---

**2512-039** The *specified\_option* option is not compatible with any of the following options: *option1*, *option2*.

**Explanation:** The command was issued with conflicting options.

**User response:** Reissue the command using at most one of the options.

---

**2512-040** Invalid input specified: *value* is not valid for *parameter*.

**Explanation:** A *value* that is not valid or that is out of range was specified for one of the input parameters.

**User response:** Specify a valid *value* according to the LoadLeveler documentation.

---

**2512-041** Failed to connect to the LoadLeveler.

**Explanation:** Attempted to connect to LoadLeveler and failed.

**User response:** Check whether LoadLeveler is up and running. Restart LoadLeveler if needed.

---

**2512-042** Failed to obtain the required information.

**Explanation:** Attempted to get information from LoadLeveler and failed.

**User response:** Check whether LoadLeveler is up and running. Restart LoadLeveler if needed.

---

**2512-043** The format of character string specified (*string*) is not valid for a LoadLeveler job step.

**Explanation:** A string having the format: [*hostname*.]*job\_id.step\_id* is expected.

**User response:** Specify a string of the expected format.

---

**2512-044** Invalid value *value* for input *input\_command*. Default value used.

**Explanation:** A *value* that is not valid or that is out of range was specified for one of the inputs.

**User response:** Specify a valid *value* according to the LoadLeveler documentation.

---

**2512-045** ERROR: *error\_msg*.

**Explanation:** An error occurred.

**User response:** Take action according to the specifics of the actual error message.

---

**2512-046** You are not authorized to issue this command. Only the owner of the job or the LoadLeveler administrator may issue the *command\_name* command.

**Explanation:** Only the LoadLeveler administrator or the job owner can issue the command for the specified job.

**User response:** Contact the job owner or LoadLeveler administrator.

**Explanation:** This command can only be issued by the job owner or the LoadLeveler administrator. See *TWS LoadLeveler: Using and Administering* for more information on command permissions.

---

**2512-047**     **Version *version\_number* of LoadLeveler for Linux does not support *security mechanism used*.**

**Explanation:** The security mechanism specified in the LoadLeveler configuration file is not supported.

**User response:** Disable the specified security mechanism and restart LoadLeveler.

---

**2512-048**     **Version *version\_number* of LoadLeveler for Linux does not support the *type of scheduler specified*.**

**Explanation:** The specified scheduler type in the LoadLeveler configuration file is not supported.

**User response:** Specify a supported scheduler type and restart LoadLeveler.

---

**2512-049**     **Version *version\_number* of LoadLeveler for Linux does not support *product feature specified*.**

**Explanation:** The specified product feature is not supported in this version of LoadLeveler.

**User response:** Do not specify the parameters associated with this feature in your configuration file or job command file.

---

**2512-050**     **Insufficient resources to meet the request.**

**Explanation:** There are not enough resources in the LoadLeveler cluster to satisfy the request.

**User response:** Resubmit the request using available resources.

---

**2512-051**     **This job has not been submitted to LoadLeveler.**

**Explanation:** The job was not submitted because of an error. This message is preceded by a message explaining the error.

**User response:** Correct the error indicated in the previous message.

---

**2512-052**     **Submit Filter: *rc* = *return\_code*.**

**Explanation:** The submit filter returned a nonzero exit code. The job was not submitted.

**User response:** Contact the LoadLeveler administrator who provided the submit filter to determine the cause of the problem.

---

**2512-053**     **Unable to process the job command file (*filename*) from the Submit Filter *filter*.**

**Explanation:** The stat system call failed for the filtered job command file.

**User response:** Contact the LoadLeveler administrator who provided the submit filter to determine the cause of the problem.

---

**2512-054**     **Unable to process the job command file (*filename*) from the Submit Filter *filter*. No output.**

**Explanation:** The submit filter returned an empty job command file.

**User response:** Contact the LoadLeveler administrator who provided the submit filter to determine the cause of the problem.

---

**2512-055**     **Unable to process the job command file *filename* for input, the error is: *error*.**

**Explanation:** This message is the result of either a failure opening the job command file, or an error running the submit filter.

**User response:** Verify that the job command file exists, and that the user has permission to access it. If a submit filter is configured, then contact the LoadLeveler administrator who provided the submit filter to determine the cause of the problem.

---

---

**2512-056**     **Unable to process the job command file *filename*.**

**Explanation:** This message is the result of either a failure opening the job command file, or an error running the submit filter.

**User response:** Verify that the job command file exists, and that the user has permission to access it. If a submit filter is configured, then contact the LoadLeveler administrator who provided the submit filter to help you determine the cause of the problem.

---

**2512-057**     **Unable to process the contents of the job command file *filename*.**

**Explanation:** The job command file does not contain any LoadLeveler commands. A LoadLeveler command or keyword statement must be preceded by: #@.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-058**     **The command file *filename* does not contain any queue keywords.**

**Explanation:** The job command file does not contain a LoadLeveler **queue** keyword. A LoadLeveler job must have at least one **queue** keyword.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-059**     **Unable to process the command file *filename*. The syntax is unknown.**

**Explanation:** The job command file does not contain any valid LoadLeveler statements.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-060**     **Syntax error: *keyword* unknown command file keyword.**

**Explanation:** The specified keyword is not a valid LoadLeveler keyword.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-061**     **Syntax error: *keyword = keyword\_value* unknown keyword value.**

**Explanation:** The specified value is not valid for this keyword.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-062**     **Syntax error: *keyword = keyword\_value* takes only one keyword value.**

**Explanation:** More than one value was given for the specified keyword. This keyword accepts only one value.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-063**     **Syntax error: *keyword = num\_value* is not a valid numerical keyword value.**

**Explanation:** The value given for the specified keyword is not a numeric value. This keyword requires a numeric value.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-064**     **Syntax error:*keyword = value* keyword value must be greater than zero.**

**Explanation:** The value given for the specified keyword is not a positive number. This keyword requires a numeric value greater than zero.

**User response:** Correct the job command file, then resubmit the job.

---

---

2512-065     **Unable to expand job command keyword** *keyword = keyword\_value.*

**Explanation:** The keyword cannot be expanded using the job command file macros.

**User response:** Correct the job command file, then resubmit the job.

---

2512-066     **Unable to expand job command keyword value** *keyword = keyword\_value.*

**Explanation:** The specified macro, used as a keyword value, could not be expanded.

**User response:** Verify that the macro is defined correctly in the job command file, then resubmit the job.

---

2512-067     **The keyword statement cannot exceed number characters.**

**Explanation:** The specified keyword statement, including all substitutions and expansions, cannot exceed the specified length.

**User response:** Correct the job command file, then resubmit the job.

---

2512-068     **The specified job\_name of keyword is not valid.**

**Explanation:** The value of the **job\_name** statement is not valid. The **job\_name** can only contain alphanumeric characters.

**User response:** Correct the job command file, then resubmit the job.

---

2512-069     **The specified step\_name of command\_file is not valid.**

**Explanation:** The **step\_name** of the specified keyword statement is not valid. The step name must: a) start with an alphabetic character, b) contain only alphanumeric characters, and c) cannot be **T** or **F**.

**User response:** Correct the job command file, then resubmit the job.

---

2512-070     **Invalid character(s) were specified for notify\_user = user\_name.**

**Explanation:** The |, <, >, and ; characters are not allowed in the name of the **notify\_user**.

**User response:** Correct the job command file, then resubmit the job.

---

2512-071     **network.mpi\_lapi cannot be specified with any other network statements.**

**Explanation:** If **network.mpi\_lapi** is specified, it must be the only network statement.

**User response:** Correct the job command file, then resubmit the job.

---

2512-072     **The string keyword\_pair\_value associated with the "resources" keyword contains consumable resources that are set automatically and cannot be specified explicitly.**

**Explanation:** A resource was specified on the resource keyword of the step that cannot be explicitly requested. Such a resource requirement is created based on other attributes of the step such as a requirement for RDMA being generated when **bulkxfer** is specified.

**User response:** Remove the automatic resource from the statement.

---

2512-073     **The same remote path name, path\_name, has been specified in at least two separate cluster\_input\_file statements. The specifications are ambiguous.**

**Explanation:** The same remote path name has been specified in more than one **cluster\_input\_file** statement.

**User response:** Edit the job command file and change the **cluster\_input\_file** statements that contain the ambiguous file name.

---

---

**2512-074**     **The priority value is not valid:** *keyword = keyword\_value*.

**Explanation:** The priority value must be between 0 and 100.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-075**     **The environment variable *environment\_variable\_name* is not allowed for an interactive session.**

**Explanation:** The environment variable was detected in the user environment while trying to run an interactive job.

**User response:** Unset the environment variable from the environment.

---

**2512-076**     **The required keyword *keyword* was not found in the administration file.**

**Explanation:** The specified keyword must appear in the administration file, so that LoadLeveler can process job command files.

**User response:** Add the specified keyword to the administration file, then resubmit the job.

---

**2512-077**     **A valid class could not be found in the default class list.**

**Explanation:** The resource limits specified for the job exceed the resource limits for all classes in the **default\_class** list for this user.

**User response:** Take one of the following actions: a) specify a class in the job command file that satisfies the job's resource limits, b) adjust the resource limits specified in the job command file, or c) have the LoadLeveler administrator add a class capable of accepting the job to the **default\_class** list for the user.

---

**2512-078**     **Group *group\_name* is not valid for user *user\_name*.**

**Explanation:** The group assigned to this job either excludes or does not include the user.

**User response:** Take one of the following actions: a) specify a valid group in the job command file, b) have the LoadLeveler administrator allow the user into the specified group, or c) have the LoadLeveler administrator change the default group for the user.

---

**2512-079**     **Class *classname* is not valid for user *user\_name*.**

**Explanation:** The class assigned to this job either excludes, or does not include the user.

**User response:** Take one of the following actions: a) specify a valid class in the job command file, b) have the LoadLeveler administrator allow the user to use the specified class, or c) have the LoadLeveler administrator change the default class of the user.

---

**2512-080**     **Class *classname* is not valid for group *group\_name*.**

**Explanation:** The class assigned to this job either excludes or does not include the group.

**User response:** Take one of the following actions: a) specify a valid class for the group, or a valid group for the class in the job command file, b) have the LoadLeveler administrator allow the group to use the specified class, or c) have the LoadLeveler administrator change the default class or default group for the user.

---

**2512-081**     **Account number *num* is not valid for user *user\_name*.**

**Explanation:** The account validation program determined that the user is not permitted to use the account number specified in the job command file.

**User response:** If the default account validation program is being used, then either use an account number assigned to the user, or have the LoadLeveler administrator add the account number to the user stanza in the administration file. If an installation specific account validation program is being used, then contact the LoadLeveler administrator.

---

---

**2512-082** Condition code specified in the statement `dependency = condition_code` is not valid.

**Explanation:** The condition code in the dependency statement must be `CC_NOTRUN`, `CC_REMOVED`, or an integer value between 0 and 255.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-083** The condition code integer value specified in the statement `dependency = value` is not within the range of 0 and 255.

**Explanation:** The condition code in the dependency statement must be `CC_NOTRUN`, `CC_REMOVED`, or an integer value between 0 and 255.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-084** The expression specified in the statement `dependency = dependency_value` is not valid.

**Explanation:** The value for the dependency statement must contain one or more expressions of the form: *stepname operator value*. Multiple expressions must be separated by the logical operators: `&&` or `||`.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-085** The syntax in the statement `dependency = dependency_value` is not valid.

**Explanation:** The value for the dependency statement must contain one or more expressions of the form: *stepname operator value*. Multiple expressions must be separated by the logical operators: `&&` or `||`.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-086** The `step_name` in the statement `dependency = dependency_value` is not valid.

**Explanation:** The `step_name` in the dependency statement is not valid. The step name must: a) start with an alphabetic character, b) contain only alphanumeric characters, and c) not be `T` or `F`.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-087** The `step_name` in the statement `dependency = dependency_value` was not previously defined.

**Explanation:** Any `step_name` used in the dependency statement must be the name of a previously defined job step.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-088** The operator in the statement `dependency = dependency_value` is not valid.

**Explanation:** The value for the dependency statement must contain one or more expressions of the form *stepname operator value*. Multiple expressions must be separated by the logical operators: `&&` or `||`.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-089** Syntax error: Class should not be included as part of *keyword\_value*.

**Explanation:** The `class` keyword cannot be used in `requirements` or `preferences` statements.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-090** The `getcwd` function failed with error *error\_num*.

**Explanation:** The `getcwd` system call failed when the submit process attempted to retrieve the name of the current working directory.

**User response:** Consult the specified error number for more information.

---

---

**2512-095**     **The resource limit *resource\_identification* is unknown.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-099**     **The same remote path name, *path\_name*, has been specified in at least two separate *cluster\_output\_file* statements. The specifications are ambiguous.**

**Explanation:** The same local path name has been specified in more than one *cluster\_output\_file* statement.

**User response:** Edit the job command file and change the *cluster\_output\_file* statements that contain the ambiguous file name.

---

**2512-100**     **Two path names (local and remote) must be specified in a *cluster\_input\_file* or *cluster\_output\_file* statement.**

**Explanation:** Either a local or remote path name was not specified in a *cluster\_input\_file* or *cluster\_output\_file* statement.

**User response:** Edit the job command file and change the cluster file statements to specify both local and remote path names.

---

**2512-101**     **The executable's version of the checkpointing library can not be determined.**

**Explanation:** Checkpointing requires that the executable be linked with the checkpointing library.

**User response:** Link edit the executable with the correct version of the checkpointing library, then resubmit the job.

---

**2512-102**     **The *CkptVersion* cannot be defined in the requirements keyword statement.**

**Explanation:** *CkptVersion* cannot be specified in the **requirements** statement. If a job command file requests checkpointing, then LoadLeveler will add *CkptVersion* to the **requirements** statement implicitly.

**User response:** Remove the *CkptVersion* expression from the requirements statement, then resubmit the job.

---

**2512-103**     **Full path names (local and remote) must be specified in *cluster\_input\_file* or *cluster\_output\_file* statements.**

**Explanation:** Either a local or remote path name was not specified with a full path name in a *cluster\_input\_file* or *cluster\_output\_file* statement.

**User response:** Edit the job command file and change the cluster file statements to specify both full path names

---

**2512-104**     **Class *class* is not configured to submit jobs in cluster *cluster\_name*.**

**Explanation:** The class is either on the cluster stanza *exclude\_class* list, or not on the *include\_class* list.

**User response:** Ask the LoadLeveler administrator to add or remove the class.

---

**2512-105**     **The *keyword\_value* conflicts with the **Adapter** = in the requirements or preferences statements.**

**Explanation:** A job command file cannot contain both a **network** keyword, and an **Adapter** preference, in the **requirements** statement.

**User response:** The **network** keyword is the preferred method for requesting adapters. Remove the **Adapter** preference from the **requirements** statement, then resubmit the job.

---

**2512-108**     **Syntax error: *node = keyword\_value* minimum is greater than maximum.**

**Explanation:** The minimum number of nodes must be less than, or equal to, the maximum number of nodes.

**User response:** Correct the job command file, then resubmit the job.

---

---

**2512-114**      **Unable to allocate *number* bytes of memory using malloc().**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2512-115**      **Unable to connect to a schedd machine.**

**Explanation:** The **submit** command cannot connect to a LoadLeveler **schedd** machine.

**User response:** Verify that a **LoadL\_schedd** daemon is running on this machine or at least one public scheduling machine, and that the scheduling machine can be accessed on the network.

---

**2512-116**      **Unable to submit a job to the schedd machine.**

**Explanation:** The **submit** command either cannot connect, or cannot send the job data to a LoadLeveler **schedd** daemon.

**User response:** Verify that a **LoadL\_schedd** daemon is running on this machine or at least one public scheduling machine, and that the scheduling machine can be accessed on the network.

---

**2512-117**      **This check pointing job requires the CHKPT\_FILE or CHKPT\_DIR environment variables.**

**Explanation:** A parallel LoadLeveler job with user initiated checkpointing requires that the **CHKPT\_FILE** or **CHKPT\_DIR** environment variables be set.

**User response:** Set the **CHKPT\_FILE** variable (or both variables), then resubmit the job.

---

**2512-119**      **Root cannot run a LoadLeveler job.**

**Explanation:** The root user (id = 0 ) is not allowed to submit a job command file to LoadLeveler.

**User response:** Log on as a different user, then resubmit the job command file.

---

**2512-120**      **The directory *directory\_name* does not exist.**

**Explanation:** The specified directory either does not exist, or is not accessible by the user.

**User response:** Either create the directory with the proper access permissions, or change the directory specified in the job command file, then resubmit the job.

---

**2512-121**      **Syntax error: *keyword* = *keyword\_value* invalid keyword value or it cannot be evaluated.**

**Explanation:** The value of the keyword contains a macro (user-defined variable) that either cannot be evaluated, or is not a valid date.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-122**      **Unable to get passwd entry for uid *user\_uid***

**Explanation:** The system call **getpwuid** failed for the specified **uid**.

**User response:** Verify that the user has read access to the **/etc/passwd** file, and that the user has an entry in **/etc/passwd**.

---

**2512-123**      **The command was unable to set the built in macros.**

**Explanation:** LoadLeveler failed to process a macro. This message is preceded by a message describing the cause of the failure.

**User response:** Correct the problem indicated by the preceding message.

---

---

**2512-124 Duplicate step names *step\_names* are not allowed.**

**Explanation:** All step names in the job command file must be unique.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-125 Unable to convert *keyword = keyword\_value* to a valid date/time format.**

**Explanation:** The value of the specified keyword is not a valid date/time.

**User response:** Correct the date/time value in the job command file, then resubmit the job.

---

**2512-126 Syntax error: The keyword *keyword* is required in the job command file.**

**Explanation:** This job type requires that the specified keyword appear in the job command file.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-127 Unable to calculate the image size. The *keyword* keyword is in error.**

**Explanation:** The job's image size was not stated explicitly using the executable keyword in the job command file. LoadLeveler must be able to calculate the job's image size.

**User response:** Consult the preceding message for more information on the error in the executable keyword. Correct the job command file, then resubmit the job.

---

**2512-128 Unable to obtain the request name to build the standard output filename.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-130 The *keyword* is required in the configuration file.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-132 The step\_name *step\_name* in the requirements statement is not being referenced in the dependency statement.**

**Explanation:** A requirements statement refers to a machine on which another step will run. To evaluate the requirements statement, the referenced step must run prior to the referencing step. A dependency statement within the referencing step is necessary to insure that the steps are run in the proper order.

**User response:** Add a dependency statement to the referencing step, then resubmit the job.

---

**2512-133 The *machine.stepname* cannot be specified for parallel type job step.**

**Explanation:** The *machine.stepname* cannot be specified in the requirements statements for a parallel type job step.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-134 The *adapter\_name* adapter cannot be requested by name. Use *sn\_single* or *sn\_all*.**

**Explanation:** A **network** keyword referenced an adapter name that was not found in the administration file. The adapter cannot be requested by name.

**User response:** Use either **sn\_single** or **sn\_all** in the job command file, or have the LoadLeveler administration define the **network\_type** or **adapter\_name** in the administration file.

---

---

**2512-135** For the *keyword* keyword, maximum number of nodes requested is greater than allowed for this *stanza\_name*.

**Explanation:** The requested maximum number of nodes exceeds the maximum allowed by the specified administration stanza.

**User response:** Either reduce the maximum number of nodes in the job command file, or have the LoadLeveler administrator increase the number allowed.

---

**2512-136** For the *stanza\_name* keyword, the total number of tasks requested is greater than allowed for this *keyword*.

**Explanation:** The requested total number of tasks exceeds the maximum allowed by the specified administration stanza.

**User response:** Either reduce the total number of tasks in the job command file, or have the LoadLeveler administrator increase the number allowed.

---

**2512-137** The number of *request\_nodes* requested nodes exceeds the number of *requested\_tasks* requested tasks.

**Explanation:** The requested number of nodes is greater than the requested total tasks.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-138** Syntax error: the *keyword1* and *keyword2* keywords are not allowed in the same step.

**Explanation:** Both of these keywords are not allowed in the same job step.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-141** Syntax error: Multiple "*keyword value*" keywords are not allowed in a "*keyword type*" statement.

**Explanation:** Only one of the specified keywords is allowed in the specified statement.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-142** Syntax error: Invalid Adapter operation in a *keyword type* statement.

**Explanation:** Only the equality operator "==" can be used with **Adapter** in the specified statement.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-143** Syntax error: Invalid adapter name in a *keyword type* statement.

**Explanation:** The name specified in the **Adapter** requirement is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-144** The *keyword* keyword is not valid when the node keyword contains minimum and maximum values which are not equal to each other.

**Explanation:** This keyword is not valid when the minimum and maximum values specified on the node keyword are not equal to each other.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-145** The *keyword* keyword is not compatible with **min\_processors** and/or **max\_processors**.

**Explanation:** The keywords (**min\_processor** and **max\_processor**) cannot be used within the same job step that specifies the **node** keyword.

**User response:** Correct the job command file, then resubmit the job.

---

---

**2512-146**     **The *keyword* keyword is not valid for `job_type = serial` job steps.**

**Explanation:** The specified keyword is not valid in a serial job.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-147**     **Job command file, *file*, cannot be a directory.**

**Explanation:** This message is self-explanatory.

**User response:** Specify a file that is not in the same directory as the job command file.

---

**2512-148**     **Syntax error: environment param *parameter*.**

**Explanation:** The specified parameter in the environment statement is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for information about environment statement parameters.

---

**2512-149**     **Cannot create environment string.**

**Explanation:** LoadLeveler cannot duplicate the environment string.

**User response:** This is a system error; contact IBM service.

---

**2512-150**     **Not enough available filesystem space for *file name*. Transfer from *host* aborted.**

**Explanation:** There was insufficient system space or insufficient access rights to write transferred data sent from the specified host.

**User response:** Try one of the following: 1) Check that the specified directory exists, 2) check that the specified directory is accessible to the user executing the command, 3) check that the file system contains sufficient disk space to create the file. Rerun the command. If this was not successful, 4) try to reissue the **llacctmrg** command, but specify a different history file name in a different file system; or use the **statvfs** man page to check for other possible problems. If the problem persists, contact the LoadLeveler administrator.

---

**2512-151**     **Error receiving history file from *host*.**

**Explanation:** An error occurred during the file transfer.

**User response:** Check the communication paths to that host. Retry the command, and if the problem persists, then contact the LoadLeveler administrator.

---

**2512-152**     **GLOBAL\_HISTORY is not specified in config file and user did not specify output directory.**

**Explanation:** The **GLOBAL\_HISTORY** directory is not specified in the LoadLeveler configuration file, and no directory was specified as a command line parameter to **llacctmrg**.

**User response:** Add the directory for the global history file to the **GLOBAL\_HISTORY** entry of the LoadLeveler configuration file, or specify the directory as a command parameter to **llacctmrg**.

---

**2512-176**     **Internal errors detected. Exiting.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-177**     **Unable to obtain machine status information from the central manager.**

**Explanation:** The specified command cannot obtain information from the central manager about machines in the LoadLeveler cluster.

**User response:** Verify that the central manager host is up and that the **LoadL\_negotiator** is running on it.

---

---

**2512-178** No class information is available in the LoadLeveler administration file.

**Explanation:** LoadLeveler cannot find class information in the administration file.

**User response:** Verify that LoadLeveler is running, and that it is configured correctly.

---

**2512-181** No machinelist specified for purge. Command was not sent.

**Explanation:** No machine names were passed to the **purge** command.

**User response:** Reissue the command with the names of the **LoadL\_schedd** hosts you wish to purge.

---

**2512-182** The keyword *keyword* is not valid.

**Explanation:** A keyword for the **llctl** command was specified that is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for a list of valid keywords.

---

**2512-183** Error occurred sending *command\_name* command to *hostname*.

**Explanation:** An error occurred while sending the specified command to the specified host.

**User response:** Verify that the intended host is available over the network, and that LoadLeveler is running. If necessary, contact a LoadLeveler administrator.

---

**2512-184** Unknown class *class\_name* specified in classlist.

**Explanation:** A class name was specified with either the **drain**, or the **resume** keyword, that does not exist within the LoadLeveler configuration.

**User response:** Reissue the command with a valid class name.

---

**2512-185** No event name specified for capture. Command was not sent.

**Explanation:** No event name was passed to the **capture** command.

**User response:** Reissue the command with the name to be used to capture the event.

---

**2512-187** Cannot evaluate StartdAvail state.

**Explanation:** LoadLeveler cannot determine if a **LoadL\_startd** is in the **drain** state.

**User response:** Verify that the command passes a valid host list.

---

**2512-188** Error allocating machine object for *machine name*.

**Explanation:** LoadLeveler cannot allocate an object corresponding to the specified machine.

**User response:** Verify that the command passes a nameserver-resolvable host name.

---

**2512-189** No schedd host was specified.

**Explanation:** No schedd host name was specified when using the **purgeschedd** option of the **llctl** command.

**User response:** Retry the command, but be sure to specify a **schedd** host name.

---

**2512-191** *security\_method* is enabled for this LoadLeveler cluster. The *keyword* of the configuration file must be assigned a value.

**Explanation:** *security\_method* indicates the security mechanism that is in use. When this security mechanism is used, the keyword indicated by *keyword* must be assigned a value that identifies the group.

**User response:** Specify the name of the appropriate group for the value of *keyword* in the LoadLeveler configuration file.

---

---

**2512-193**     *security method is enabled for this LoadLeveler cluster. Only members of the security method group group\_name are permitted to issue this command.*

**Explanation:** The ID issuing the command is not a member of the admin group for the security mechanism in use.

**User response:** When CtSec is enabled, log in as a member of the CtSec LoadLeveler administrative group, reissue the command.

---

**2512-199**     *illegal\_option is an unrecognized option.*

**Explanation:** An unrecognized option was specified.

**User response:** Reissue the command, specifying only valid options.

---

**2512-200**     **Errors encountered, processing halted.**

**Explanation:** LoadLeveler encountered errors while processing the command line.

**User response:** Correct the reported errors, then reissue the command.

---

**2512-201**     **Unable to open the files file1, file2.**

**Explanation:** **Ildbconvert** is either not being run in the local spool directory, or the user running the program has insufficient permissions to write in the local spool directory. LoadLeveler cannot open the specified files.

**User response:** Verify that the paths are correct, and that the files have the appropriate permissions.

---

**2512-202**     **Unable to convert job job number, job name. Previous messages may indicate cause.**

**Explanation:** LoadLeveler cannot convert the specified job step from its old format to the new format.

**User response:** Make a note of the job number. Earlier messages may indicate the reason for the failure.

---

**2512-203**     **Unable to store job job number, job name in queue file names files.**

**Explanation:** LoadLeveler cannot store job job number.

**User response:** Verify that there is disk space available in the local spool directory's file system, and that the associated permissions are appropriate.

---

**2512-204**     **Cannot rename file name file1 to file2. Error (error number) was: error message.**

**Explanation:** Cannot rename the file from string1 to string2.

**User response:** Use the information in the error explanation to correct the problem.

---

**2512-205**     **The job\_queue files to be converted are in old LoadLeveler version format, not in 1.3 format.**

**Explanation:** Spool files are not in the expected original format or in the desired format.

**User response:** **Ildbconvert** cannot be used. Delete or rename all spool files before bringing up the new version of LoadLeveler.

---

**2512-206**     *function failed for job = job\_num , step = job\_step\_num.*

**Explanation:** LoadLeveler failed to fetch the specified job step at the XDR level. **Ildbconvert** will discard an entire job if it fails to convert one of its job steps.

**User response:** Make a note of the job number. If the problem persists, contact IBM service.

---

---

**2512-207 Incorrect PROC version number (*version\_num*). Converting to NULL PROC.**

**Explanation:** `lldbconvert` cannot ascertain the version of a job step, and will try to continue processing other job steps.

**User response:** Keep track of the job and job step numbers. If `lldbconvert` succeeds, issue `llq` (after you have started the new version of LoadLeveler) to see what data was lost. Also, pay attention to additional error messages issued by `lldbconvert`. If the problem persists, contact IBM service.

---

**2512-220 Favorjob command has not been sent to the central manager.**

**Explanation:** The `favorjob` command was not sent to the central manager.

**User response:** Verify that the central manager host is up, and that the `LoadL_negotiator` is running on it.

---

**2512-225 Favoruser command has not been sent to the central manager.**

**Explanation:** The `favoruser` command was not sent to the central manager.

**User response:** Verify that the central manager host is up, and that the `LoadL_negotiator` is running on it.

---

**2512-229 Only a LoadLeveler administrator is permitted to use the -s option of this command.**

**Explanation:** A non-administrator is attempting to specify the `-s` option of this command.

**User response:** Do not use the `-s` option unless you are a LoadLeveler administrator.

---

**2512-230 Can not find password entry for user *uid number*.**

**Explanation:** A matching entry for the `uid` number does not exist in the `/etc/passwd` file.

**User response:** Check the entries in the `/etc/passwd` file.

---

**2512-231 Hold command has not been sent to the central manager.**

**Explanation:** The `hold` command was not sent to the central manager.

**User response:** Verify that the central manager host is up, and that the `LoadL_negotiator` is running on it.

---

**2512-232 The format of character string specified (= *LoadLeveler job or job step name*) is not valid for a LoadLeveler job or job step.**

**Explanation:** A string having the format: `[hostname.]job_id[.step_id]` is expected.

**User response:** Specify a string of the expected format.

---

**2512-238 Length of "environment" string must be less than 8191 bytes.**

**Explanation:** This message is self-explanatory

**User response:** Verify that the environment string contains less than 8191 bytes.

---

**2512-239 Syntax error: When *JCL keyword* is specified, the *JCL keyword* must also be specified.**

**Explanation:** Both of the specified keywords are required to appear within the same job step.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-240 Syntax error: "*JCL keyword = value*" keyword value must be greater than or equal to the value specified for Blocking.**

**Explanation:** The specified keyword value must be greater than or equal to the value set for Blocking.

**User response:** Correct the job command file, then resubmit the job.

---

---

**2512-241** A "communication level" can only be specified with a communication subsystem mode of US.

**Explanation:** A communication level was specified in a **network** statement which did not also specify user space. Communication level is only valid on **network** statements which specify user space communication.

**User response:** Either remove the communication level specification, or change the mode to user space in the job command file, then resubmit the job.

---

**2512-243** Priority command has not been sent to the central manager.

**Explanation:** The **priority** command was not sent to the central manager.

**User response:** Verify that the central manager host is up, and that the **LoadL\_negotiator** is running on it.

---

**2512-244** Blank space is not allowed between + or - sign and priority adjustment specification.

**Explanation:** There should be no blank space between the +/- sign and the integer specified in a priority adjustment.

**User response:** Remove the blank space. For example: specify +30, not + 30.

---

**2512-249** No reservation list was specified. A reservation list is required with the -R option.

**Explanation:** The **llq -R** command was issued without a reservation list.

**User response:** Reissue the command with a reservation list.

---

**2512-250** No hostlist was specified. A hostlist is required with the -h option.

**Explanation:** The **llq -h** command was issued without a hostlist.

**User response:** Reissue the command with a hostlist.

---

**2512-251** No userlist was specified. A userlist is required with the -u option.

**Explanation:** The **llq -u** command was issued without a userlist.

**User response:** Reissue the command with a userlist.

---

**2512-252** Encountered one or more errors while processing the list of reservation IDs.

**Explanation:** The command encountered errors while processing the arguments of the **-R** option.

**User response:** Verify that the reservation IDs associated with the **-R** option are valid.

---

**2512-253** The -u option and the -s option are incompatible.

**Explanation:** The **llq** command was issued with conflicting options.

**User response:** Reissue the **llq** command using either the **-s**, or the **-u** option (not both).

---

**2512-254** The *flag* option can not be used when a job list is also specified.

**Explanation:** When a job list is specified with **llq**, the **-u**, **-c**, and **-R** options cannot be used.

**User response:** Reissue the **llq** command specifying only a job list, or any combination of the **-u**, **-c**, and **-R** options without a job list.

---

**2512-255** A job list must be specified if the -s option is used.

**Explanation:** The **llq -s** command was issued with no job ids.

**User response:** Specify one or more job ids with the **llq -s** command.

---

---

**2512-256** An outbound schedd for cluster *remote\_cluster\_name* is not configured.

**Explanation:** An outbound schedd was not defined in the configuration.

**User response:** Add `outbound_hosts` for the remote cluster and reconfigure.

---

**2512-257** Failed to connect to remote inbound schedd *remote\_schedd\_name*.

**Explanation:** An error occurred connecting to the remote inbound schedd.

**User response:** Examine the log for that schedd.

---

**2512-258** Remote Schedd *remote\_schedd* is not configured as an `inbound_hosts` for this cluster.

**Explanation:** The remote schedd is not configured as an `inbound_hosts` for the cluster.

**User response:** Check with the LoadLeveler administrator of the remote cluster.

---

**2512-259** No `inbound_hosts` are configured for the remote cluster *remote\_cluster\_name*.

**Explanation:** No `inbound_hosts` are configured for the remote cluster.

**User response:** Check with the LoadLeveler administrator of the local cluster.

---

**2512-260** The reserved word *reserved\_word* is not a valid value for `-X` for this command.

**Explanation:** The `-X` flag does not support the keyword you specified for this command.

**User response:** Reissue the command with valid values.

---

**2512-261** The `-u` option can not be used when a job list has already been specified.

**Explanation:** The `-u` option of the `llq` command cannot be used when a job list has already been specified.

**User response:** Do not use the `-u` option when a job list has been specified.

---

**2512-262** Encountered one or more errors while processing the list of host names.

**Explanation:** The `llq` command encountered errors while processing the arguments of the `-h` option.

**User response:** Verify that the host names associated with the `-h` option are valid.

---

**2512-263** Encountered one or more errors while processing the list of user names.

**Explanation:** The `llq` command encountered errors while processing the arguments of the `-u` option.

**User response:** Verify that the user names associated with the `-u` option are valid.

---

**2512-264** The `-c` option and the `-s` option are incompatible.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using either the `-s` or the `-c` option, but not both.

---

**2512-265** No class list was specified. A class list is required with the `-c` option.

**Explanation:** The `llq -c` command was issued without a class list.

**User response:** Reissue the command with a class list.

---

---

**2512-266** Encountered one or more errors while processing the list of class names.

**Explanation:** The `llq` command encountered errors while processing the arguments of the `-c` option.

**User response:** Verify that the class names associated with the `-c` option are valid.

---

**2512-267** The `-x` option is not compatible with the `-s`, `-r`, or `-f` options.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-268** The `-s` option is not compatible with the `-u`, `-x`, `-r`, `-f`, or `-c` options.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-269** The `-l` option is not compatible with the `-r`, or `-f` options.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-270** The `-r` option is not compatible with the `-l`, `-s`, `-x`, or `-f`, options.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-271** An error was detected while processing the parameters of the `-r` or `-f` option.

**Explanation:** A parameter of the `-r` or `-f` option is not valid.

**User response:** Use the `llq -H` command to obtain a complete list of valid parameters of the `-r` or `-f` option.

---

**2512-272** The `-f` option is not compatible with the `-l`, `-s`, `-x`, or `-r` options.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-273** A job list can be specified only once.

**Explanation:** More than one job list has been specified.

**User response:** Reissue the `llq` command with only one list of job IDs.

---

**2512-274** A job list can not be specified when a user list has also been specified.

**Explanation:** Conflicting options were specified for the `llq` command.

**User response:** Reissue the `llq` command using only valid combinations of options.

---

**2512-275** An error was detected while processing the list of job names.

**Explanation:** A job name or job step has been specified which is not valid.

**User response:** Reissue the `llq` command using valid job names or job step names.

---

- 
- 2512-277**     **The -h option is compatible with a job list only when the -s option is also specified.**  
**Explanation:** The -h option of the llq command cannot be used with a job list unless the -s option is also specified.  
**User response:** Do not use the -h option when a job list has been specified, unless the -s option is also specified.
- 
- 2512-278**     **A step id must be specified when the -w and -h options are specified.**  
**Explanation:** Conflicting options were specified for the llq command.  
**User response:** Reissue the llq command with only valid combinations of options.
- 
- 2512-279**     **The -w option only supports a single hostname.**  
**Explanation:** Conflicting options were specified for the llq command.  
**User response:** Reissue the llq command with only valid combinations of options.
- 
- 2512-280**     **The combination of -w and -h only supports a single step id.**  
**Explanation:** Conflicting options were specified for the llq command.  
**User response:** Reissue the llq command with only valid combinations of options.
- 
- 2512-281**     **This operation did not terminate normally since a severe error had been detected.**  
**Explanation:** The program has terminated due to a severe condition.  
**User response:** Check the LoadLeveler configuration and administration files.
- 
- 2512-282**     **A userlist, hostlist or joblist must be specified.**  
**Explanation:** The llcancel command is missing data.  
**User response:** Specify a *userlist*, *hostlist*, or *joblist* with the llcancel command.
- 
- 2512-283**     **Cancel command has not been sent to the central manager.**  
**Explanation:** LoadLeveler encountered an error while sending data to the central manager.  
**User response:** Verify that the central manager host is up, and that the **LoadL\_negotiator** daemon is running on it. Retry the command; if the problem persists, then contact the LoadLeveler administrator.
- 
- 2512-284**     **The cluster must be provided for -X for this command.**  
**Explanation:** You must specify a cluster name for -X for this command.  
**User response:** Reissue the command request specifying the cluster name.
- 
- 2512-293**     **A duplicate category associated with -f or -r option has been specified.**  
**Explanation:** A suboption of the -f or -r option was specified more than once.  
**User response:** Each distinct suboption should not be specified more than once. Use the -H option to get a list of valid suboptions.
- 
- 2512-294**     **The central manager is not defined in the LoadLeveler administration file.**  
**Explanation:** LoadLeveler cannot obtain information about the central manager machine.  
**User response:** Verify that a central manager is defined in the LoadLeveler administration file.
-

---

**2512-295**     **The -l, -r, -f options of this command are mutually exclusive.**

**Explanation:** Do not specify the -l, -r, or -f options together in any combination.

**User response:** Specify -l, or -r, or -f, but not any combination of these options.

---

**2512-296**     **An invalid category associated with -f or -r option has been specified.**

**Explanation:** You have specified a non-valid suboption of the -f or -r option.

**User response:** Specify only valid suboptions. Use the -H option to get a list of valid suboptions.

---

**2512-297**     **The arguments of this command contain characters not in the ASCII character set. Exiting.**

**Explanation:** The arguments of this command contain characters non-ASCII characters.

**User response:** Specify arguments in valid ASCII characters.

---

**2512-298**     **The -l, -a, -r, -f, -R, -F options of this command are mutually exclusive.**

**Explanation:** Do not specify any of the following options together: -l, -a, -r, -f, -R, or -F.

**User response:** Specify any of the following options alone: -l, -a, -r, -f, -R, -F, but not in any combination.

---

**2512-299**     **If -F option is specified then a host list can not be specified.**

**Explanation:** The -F option is not compatible with a host list.

**User response:** Do not specify a host list if the -F option has been specified.

---

**2512-300**     **Program encountered an error while processing data received from the central manager.**

**Explanation:** Data that is not valid is returned by the central manager.

**User response:** Check to see if the central manager is up and running.

---

**2512-301**     **An error occurred while receiving data from the daemon on host *hostname*.**

**Explanation:** Data that is not valid is returned or a time-out occurred.

**User response:** Use the CLIENT\_TIMEOUT keyword to increase the time-out interval from the default value of 30 seconds.

---

**2512-302**     **Unable to retrieve multicluster information from Schedd *schedd\_name* in cluster *cluster\_name*.**

**Explanation:** The data returned is not valid.

**User response:** Review any supplemental messages from the remote cluster to determine why the command failed.

---

**2512-303**     **An option that was specified with the -C flag is not valid.**

**Explanation:** An option that was specified with the -C flag is not valid.

**User response:** Reissue the command with valid parameters.

---

**2512-304**     **An error occurred while receiving data from the *daemon\_name* daemon in cluster *cluster\_name*.**

**Explanation:** A remote cluster request returned an error.

**User response:** Examine the LoadLeveler logs to determine why the error occurred in the named remote cluster.

---

---

**2512-305 Support for Blue Gene is not enabled.**

**Explanation:** Status information for the Blue Gene system was requested, but support for the Blue Gene system is not enabled.

**User response:** The configuration keyword **BG\_ENABLED** must be set to **true** to enable LoadLeveler support for the Blue Gene system.

---

**2512-306 The Blue Gene system is not active.**

**Explanation:** Status information for the Blue Gene system was requested, but attempts to query the Blue Gene system failed.

**User response:** Verify that all components of the Blue Gene system are operational and that the environment variables **BRIDGE\_CONFIG\_FILE**, **DB\_PROPERTY**, and **MMCS\_SERVER** are set with the appropriate values in the environment of the LoadLeveler daemons.

---

**2512-311 *parameter* is not a valid option for the -r flag. Valid options are: all, resource, throughput, avgthroughput, minthroughput, maxthroughput, numeric.**

**Explanation:** The specified argument is not valid for the **-r** flag.

**User response:** Refer to the displayed list of valid arguments.

---

**2512-312 Missing date for -s or -e flag.**

**Explanation:** One or more dates have been omitted for the **-s** and **-e** flags.

**User response:** Enter a date for each flag.

---

**2512-313 The date range specified is not valid.**

**Explanation:** The Start date is later than the End date.

**User response:** Enter a valid date range.

---

**2512-318 *parameter* is not a valid option for the -d flag. Valid options are: all, user, group, class, account, unixgroup, day, week, month, jobid, jobname, allocated.**

**Explanation:** The specified parameter is not a valid argument for the **-d** flag.

**User response:** Refer to the displayed list of valid arguments.

---

**2512-326 Syntax error found in the task\_geometry expression. Task ID(s) have to be specified.**

**Explanation:** There are no task IDs specified for a node in the **task\_geometry** statement. Task IDs must be unsigned integers, specified within a single set of parentheses. Additional task IDs should be included within the same parentheses, but must be separated from each other by commas.

**User response:** Correct the syntax error in the **task\_geometry** statement, then resubmit the job.

---

**2512-327 Syntax error found in the task\_geometry expression. The expression must start with a "{".**

**Explanation:** The **task\_geometry** statement must start with a "{" (open brace), and end with a "}" (closed brace).

**User response:** Correct the syntax error in the **task\_geometry** statement, then resubmit the job.

---

**2512-328 Syntax error found in the task\_geometry expression. The expression must end with a "}".**

**Explanation:** The **task\_geometry** statement must start with a "{" (open brace), and end with a "}" (closed brace).

**User response:** Correct the syntax error in the **task\_geometry** statement, then resubmit the job.

---

---

**2512-329**      **Syntax error found in the `task_geometry` expression. Extra characters are found after `}`.**

**Explanation:** The entire `task_geometry` statement must be enclosed within the `{` (open brace), and the `}` (closed brace).

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-330**      **Syntax error found in the `task_geometry` expression. Left parenthesis cannot be nested.**

**Explanation:** The list of task IDs assigned to a node in a `task_geometry` statement must begin with a single open parenthesis. Nested parentheses are not allowed.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-331**      **Syntax error found in the `task_geometry` expression. Expected `(`, but another character is encountered.**

**Explanation:** The list of task IDs assigned to a node must begin with the open parenthesis; the current list of task IDs begins with another character.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-332**      **Syntax error found in the `task_geometry` expression. `"` is encountered without a corresponding `"`.**

**Explanation:** All of the task IDs for a node in a `task_geometry` statement must be enclosed between parentheses.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-333**      **Syntax error found in the `task_geometry` expression. Task ID(s) have to be specified within parentheses.**

**Explanation:** Task IDs must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-334**      **Syntax error found in the `task_geometry` expression. The specification of task ID(s) within the parentheses is not valid.**

**Explanation:** Task IDs must be unsigned integers, and must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-335**      **Syntax error found in the `task_geometry` expression. A task ID has to be an unsigned integer.**

**Explanation:** Task IDs must be unsigned integers, and must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

**2512-336**      **Syntax error found in the `task_geometry` expression. A task ID has to be an integer from 0 to `n-1`, where `n` is the total number of tasks for the parallel job.**

**Explanation:** Task IDs must comprise a complete range of consecutive unsigned integers. The range must start with zero, and end with a value that is one less than the total number of tasks in the parallel job.

**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.

---

- 
- 2512-337**     **Syntax error found in the `task_geometry` expression. Duplicate task IDs are specified.**  
**Explanation:** No task IDs may be specified more than once in the `task_geometry` statement.  
**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.
- 
- 2512-338**     **Syntax error found in the `task_geometry` expression. A non-blank character is found between `)` and `]`.**  
**Explanation:** No task IDs can be specified more than once in the `task_geometry` statement.  
**User response:** Correct the syntax error in the `task_geometry` statement, then resubmit the job.
- 
- 2512-339**     **Syntax error: the `JCL keyword` keyword is not allowed in a step which specifies a class with the master node requirement.**  
**Explanation:** The class which was specified for the step is configured with `master_node_requirement` set to `true`. The specified keyword cannot be used in a step that requires the master node feature.  
**User response:** Either modify the job command file to remove the specified keyword or to change the class specification, or modify the LoadLeveler administration file by setting the `master_node_requirement` keyword to `false` in the class stanza.
- 
- 2512-340**     **There is a consumable resource without a value: `value`.**  
**Explanation:** This message is self-explanatory.  
**User response:** Verify the syntax of the job command file, configuration file, or administration file.
- 
- 2512-341**     **There is a consumable resource with a wrong value: `value`.**  
**Explanation:** This message is self-explanatory.  
**User response:** Verify the syntax of the job command file, configuration file, or administration file.
- 
- 2512-342**     **There is a consumable resource without units: `unit`.**  
**Explanation:** This message is self-explanatory.  
**User response:** Verify the syntax of the job command file, configuration file, or administration file.
- 
- 2512-343**     **There is a floating resource with a wrong value: `value`.**  
**Explanation:** This message is self-explanatory.  
**User response:** Verify the syntax of the job command file, configuration file, or administration file.
- 
- 2512-344**     **Syntax error: the `JCL keyword` keyword is not allowed in the command file for an interactive session.**  
**Explanation:** The job command file cannot have the specified keyword when the session is interactive.  
**User response:** Either, remove the specified keyword from the job command file, or submit the job with a different session type.
- 
- 2512-345**     **Syntax error: the `JCL keyword` keyword is not allowed in the command file for an interactive session with host list.**  
**Explanation:** The job command file cannot contain the specified keyword with a host list, and when the session is interactive.  
**User response:** Either remove the specified keyword from the job command file, or submit the job with a different session type.
-

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**2512-346**     **Syntax error: the *keyword* keyword cannot be specified more than once.**

**Explanation:** This message is self-explanatory.

**User response:** Remove the additional keyword from the job command file.

---

**2512-347**     **Syntax error: the keyword *keyword* can not have a value *value* for an interactive session.**

**Explanation:** The job command file cannot contain the specified keyword with a host list, and when the session is interactive.

**User response:** Change the value of the specified keyword in the job command file.

---

**2512-348**     **The *keyword* keyword is ignored in the command file for an interactive session.**

**Explanation:** The job command file cannot contain the specified keyword when the session is interactive.

**User response:** Change the value of the specified keyword in the job command file.

---

**2512-349**     **Syntax error: the *keyword* keyword cannot contain a value other than *value* for an interactive session.**

**Explanation:** The job command file cannot contain the specified keyword with a host list, and when the session is interactive.

**User response:** Change the value of the specified keyword in the job command file.

---

**2512-350**     **Syntax error: the *resource name* consumable resource can not have a value lesser than the value of "*image\_size*".**

**Explanation:** The value for **ConsumableVirtualMemory** cannot be less than the value specified for the step's *image\_size*.

**User response:** Change the value of the specified keyword in the job command file.

---

**2512-351**     **Attention: The consumable resource *resource name* is not listed in SCHEDULE\_BY\_RESOURCES.**

**Explanation:** This warning is generated when a resource has been requested that does not appear in the **SCHEDULE\_BY\_RESOURCES** list.

**User response:** Change the value of the specified keyword in either the job command file, or the LoadLeveler configuration file.

---

**2512-352**     **Syntax error: *keyword = keyword value* keyword value must be greater than zero.**

**Explanation:** The value given for the specified keyword is not a positive number. This keyword requires a numeric value greater than zero.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-353**     **css1 adapter cannot be used to run User Space jobs.**

**Explanation:** User Space jobs cannot be run on the **css1** adapter alone (css limitation).

**User response:** Request the **css0** or **csss** adapter for a User Space job or specify IP Mode for **css1**.

---

**2512-354**     **The ENFORCE\_RESOURCE\_SUBMISSION keyword is true, ENFORCE\_RESOURCE\_USAGE is required in the job's resources keyword.**

**Explanation:** The admin has defined the **ENFORCE\_RESOURCE\_SUBMISSION** keyword to be **True**. All jobs must have the **ENFORCE\_RESOURCE\_USAGE** resources specified.

**User response:** Resubmit the job with the correct resources requested in the **resources** keyword.

---

---

**2512-355**     **The string *string* associated with the resources keyword contains invalid consumable resources information.**

**User response:** Resubmit the job with the correct resources specifications.

---

**2512-356**     **The specification *data\_string* for keyword keyword contains invalid data.**

**Explanation:** The data string assigned to this keyword contains one or more errors.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-357**     **The value assigned to *keyword* must be greater than zero.**

**Explanation:** This keyword accepts only a positive number.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-358**     **Syntax error found in the *task\_geometry* expression. The value of a task ID can not be outside the range of *int32\_t*.**

**Explanation:** The task geometry expression contains a task ID having a value outside the (INT32\_MIN,INT32\_MAX) range.

**User response:** Resubmit the job with the correct specification for the *task\_geometry* expression.

---

**2512-359**     **The character string *string* cannot be assigned to the *keyword* keyword."**

**Explanation:** The user specification in *string* is not appropriate for this keyword.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-360**     **The string *string\_value* associated with the *keyword* keyword is not a valid time specification.**

**Explanation:** The user specification in *string2* is not appropriate for this keyword.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-361**     **The value assigned to the *keyword* keyword can not be converted to an integer.**

**Explanation:** The user specification for this keyword is not a numeric string and hence cannot be converted to an integer.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-362**     **The value *value* assigned to the *keyword* keyword is not an integer.**

**Explanation:** The user specification in *value* is not a numeric string.

**User response:** Specify a correct value for this keyword and either resubmit the job or reconfigure LoadLeveler.

---

**2512-364**     **The size of the file *filename* associated with the *executable* keyword cannot exceed *number* bytes.**

**Explanation:** The size of the file associated with the LoadLeveler executable keyword cannot be greater than the indicated number of bytes.

**User response:** If the size of the executable is greater than INT32\_MAX (2147483647 bytes), create a shell script that invokes this executable and submit the script to LoadLeveler.

---

**2512-365**     **The *keyword* statement with domain names expanded cannot exceed *number* characters.**

**Explanation:** The keyword statement, including all domain name expansions, cannot exceed the specified length.

**User response:** Correct the job command file, then resubmit the job.

---

---

**2512-366** You must have execute permission for a job step's executable file, *executable file name*, when checkpoint is enabled.

**Explanation:** LoadLeveler normally copies the executable file for a job step to the executing machine and sets execute permission for the copied file. If checkpoint is enabled for a job step, LoadLeveler cannot copy the executable file. In this case, the executable file must have execute permission for the user at submit time.

**User response:** Set execute permission for the executable files for all checkpoint enabled job steps and then resubmit the job.

---

**2512-367** This version of `llsubmit` does not support *type of LoadLeveler job*.

**Explanation:** The type of job submitted is not supported by this version of LoadLeveler.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-368** The *function\_name* function is unable to determine the status of the file *file\_name*, **errno** *error\_number* (*error\_description*).

**Explanation:** The specified system call failed for the specified file.

**User response:** Verify that the file exists and that it has the appropriate permissions.

---

**2512-369** The cluster name specified *cluster\_name* is not currently configured.

**Explanation:** The specified cluster name was not found in the local cluster's administration file.

**User response:** Specify a cluster name that appears in the output of the `llstatus -C` command.

---

**2512-370** The job command file keyword `cluster_list` is not compatible with the `ll_cluster` API or the `-X` flag.

**Explanation:** The environment variable set by the `ll_cluster` API cannot be specified when the `cluster_list` keyword is specified.

**User response:** Either unset the `ll_cluster` API, or remove the `cluster_list` keyword.

---

**2512-371** The reserved word "any" cannot be specified in combination with cluster names.

**Explanation:** The reserved word `any` was found with a cluster name.

**User response:** Either specify the `cluster_list` keyword or the `-X` flag with `any` or *cluster\_list*.

---

**2512-372** Error processing the `-X` flag.

**Explanation:** An error occurred during the processing of the `-X` parameter values. The command cannot continue.

**User response:** Reissue the command with a valid value.

---

**2512-373** Failure storing job *job\_ID* in the job queue.

**Explanation:** The schedd encountered an error writing the job to the job queue in the `spool` directory.

**User response:** Examine the schedd log for the file system error and correct the indicated error.

---

**2512-374** Error occurred processing remote job *job\_ID*.

**Explanation:** The remote inbound Schedd encountered an error in `processRemoteJob`.

**User response:** Examine the remote inbound Schedd log to determine the cause of the error.

---

---

**2512-375** User *user\_name* is not configured to submit jobs in cluster *cluster\_name*.

**Explanation:** The user is either on the cluster stanza's `exclude_users` list, or not on its `include_users` list.

**User response:** Ask the LoadLeveler administrator to either add or remove the user.

---

**2512-376** Group *group\_name* is not configured to submit jobs in cluster *cluster\_name*.

**Explanation:** The group is either on the cluster stanza `exclude_users` list, or not on the `include_users` list.

**User response:** Ask the LoadLeveler administrator to either add or remove the group.

---

**2512-382** Cannot move job *job\_ID* because the job was not found.

**Explanation:** The job for the specified ID was not found.

**User response:** Verify that a valid job ID was specified and that the job is still in the idle state.

---

**2512-383** Cannot move job *job\_ID* because step *job\_step\_ID* is not in an idle state. Current state is *state\_name*.

**Explanation:** A job step in the specified job was not in an idle state. A job can be moved only if all jobs steps are in the idle state.

**User response:** Verify that a valid job ID was specified and that all job steps are in the idle state.

---

**2512-384** Cannot move job *job\_ID* because update of job queue on *host\_name* failed.

**Explanation:** LoadLeveler cannot store the specified job.

**User response:** Verify that there is disk space available in the local spool directory's file system and that the associated permissions are appropriate. If the problem persists, contact IBM service.

---

**2512-385** Cannot move job *job\_ID* because interactive jobs cannot be moved.

**Explanation:** The specified job is an interactive job and interactive jobs cannot be moved to another cluster.

**User response:** Do not try to move an interactive job.

---

**2512-386** The local cluster can not be specified as the destination cluster.

**Explanation:** The job is already assigned to the local cluster.

**User response:** Do not specify the local cluster name as the target of a move job request.

---

**2512-387** The `-j` argument must be a job id, a job step id can not be specified.

**Explanation:** A job step ID was specified instead of a job ID.

**User response:** Specify the job to be moved without the step number.

---

**2512-388** Cannot move job *job\_ID* because the job is already in the process of being moved.

**Explanation:** The specified job is already being moved.

**User response:** Specify an idle job that is not being moved.

---

**2512-403** Unable to "`cd`" into directory *directory*.

**Explanation:** This message is self-explanatory.

**User response:** Review access permissions and other possible reasons for not being able to access a directory.

---

---

**2512-404** You must be user *username* to execute this script.

**Explanation:** This message is self-explanatory.

**User response:** Verify that you are logged in as the expected user, then retry the script.

---

**2512-405** Missing parameter for *parameter*; try "**-help**".

**Explanation:** This message is self-explanatory.

**User response:** Issue **llinit -help** to for information on specifying parameters.

---

**2512-406** Unable to set permission *permission* on *target file*.

**Explanation:** This message is self-explanatory.

**User response:** Verify that you have the authorization to set the desired permissions.

---

**2512-407** Unable to create directory *target directory*.

**Explanation:** This message is self-explanatory.

**User response:** Verify that you have the authorization to create the desired directory.

---

**2512-408** Unable to create symbolic link *target symbolic link*.

**Explanation:** This message is self-explanatory.

**User response:** Verify that you have the authorization to create the desired symbolic link.

---

**2512-409** Unable to create file *target file*.

**Explanation:** This message is self-explanatory.

**User response:** Verify that the user has authorization to create the desired file.

---

**2512-410** Error occurred while trying to edit file *target file*, **rc**=return from *ed* command.

**Explanation:** This message is self-explanatory.

**User response:** Make the corrections indicated by the return code.

---

**2512-411** Unknown parameter=*parameter* try "**llinit -H**".

**Explanation:** This message is self-explanatory.

**User response:** Issue **llinit -H** for information on specifying parameters.

---

**2512-416** The *command\_option* option must be specified with the *command\_option* option.

**Explanation:** The *command\_option* option must be specified with the *command\_option* option for this command.

**User response:** Reissue the command with the correct parameter combinations.

---

**2512-424** A list of job names or step names must be specified when the **-s** option is specified.

**Explanation:** When **-s** option is specified, a list of job names or step names must also be specified.

**User response:** Reissue the **llq -s** command with a valid list of job names or step names.

---

---

**2512-425** Machine *machine\_name* specified in the host list is not known to the Central Manager. Ignored.

**Explanation:** The machine specified is not known to the Central Manager.

**User response:** Check the LoadLeveler administration file. Reissue the `llq` command with a valid host name.

---

**2512-426** None of the machines in the specified host list is known to the Central Manager.

**Explanation:** The machines in the host list are not known to the Central Manager.

**User response:** Check the LoadLeveler administration file. Reissue the `llq -h` command with a valid list of host names.

---

**2512-427** Step *step\_ID* has been canceled because it was rejected *num* time(s).

**Explanation:** The number of times that the specified step was rejected exceeds the value specified for `MAX_JOB_REJECT` in the configuration file, so the step was canceled.

**User response:** Check for mail describing this problem, unless `NOTIFICATION` is set to `NONE` in the job command file. Also, verify that the job's requirements can be met on the machine that rejected it, and that the user's uid is valid.

---

**2512-428** Step *step\_ID* has been put on user hold because it has been rejected *num* time(s).

**Explanation:** The number of times that the specified step was rejected exceeds the maximum allowed in the job command file, so the step was put on user hold.

**User response:** Check for mail describing this problem (unless the `NOTIFICATION` keyword is set to `NONE` in the job command file). Also, verify that the job's requirements can be met on the machine that rejected it, and that the user's uid is valid.

---

**2512-429** Problem with history file.

**Explanation:** This is the subject line of an e-mail sent to LoadLeveler administrators when the schedd fails to write to its local history file.

**User response:** The body of the e-mail will contain further details about the problem.

---

**2512-430** Error appending job *job\_name* to the history file, `errno = UNIX_error_num`.

**Explanation:** This is a history file problem.

**User response:** Consult the specified error number for more information.

---

**2512-431** Accounting has been disabled on machine: *machine\_name*.

**Explanation:** This is a history file problem.

**User response:** Use the error number from message 2512-430 to correct the history file problem.

---

**2512-432** Re-enable with: `llctl -h hostname reconfig` or `llctl -h hostname recycle`.

**Explanation:** This is a history file problem.

**User response:** If you are a LoadLeveler administrator, then run `llctl -h reconfig` or `llctl -h recycle`, then retry the command; if you are not, then contact the LoadLeveler administrator.

---

**2512-433** *step\_ID* has been put on system hold because it has been rejected *num* time(s).

**Explanation:** The specified step was put on system hold.

**User response:** Verify that the job's requirements can be met on at least one machine in the LoadLeveler cluster, and that the user's uid is valid on sufficient machines in the LoadLeveler cluster, then resubmit the job. If the problem persists, contact the LoadLeveler administrator.

---

**2512-434**     **There is an error attempting to write to the SAVELOGS directory. Saving log files is disabled.**

**Explanation:** An error occurred during the saving of old log files.

**User response:** Verify that the configuration file variable SAVELOGS points to an existing directory, that you have permission to access the directory, and that there is available space in the directory. After the SAVELOGS directory is accessible, a reconfiguration is needed to reenble the saving of the save log files.

---

**2512-435**     **Error appending reservation *reservation\_ID* to the reservation history file, errno = *errno*.**

**Explanation:** A problem occurred appending data to the reservation history file. The error number indicates the nature of the problem.

**User response:** Correct the problem indicated by the error number.

---

**2512-436**     **Reservation accounting has been disabled on machine: *machine\_name*.**

**Explanation:** A reservation history file problem occurred.

**User response:** Use the error number from message 2512-435 to correct the reservation history file problem.

---

**2512-440**     **Unable to malloc *num* bytes for list.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2512-441**     **Specified step name *step\_name* is not a valid name for a LoadLeveler job.**

**Explanation:** The error message is self-explanatory

**User response:** Reissue the command specifying a correct LoadLeveler step name.

---

**2512-442**     **statvfs (*file\_name*, *address\_of\_statvfsbuf*) failed. Errno = *error\_number*.**

**Explanation:** The statvfs system call failed.

**User response:** Correct the problem indicated by the error number.

---

**2512-443**     **statfs (*hexadecimal\_address*) failed. Errno = *error\_num*.**

**Explanation:** The statfs function call failed.

**User response:** Correct the problem indicated by the error number.

---

**2512-445**     **Syntax error: Blank required after end quote for keyword *keyword*.**

**Explanation:** The specified keyword requires a blank after the end quote.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-446**     **Syntax error: Quotes mismatched for keyword *keyword*.**

**Explanation:** The quotes are mismatched for the specified keyword.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-448**     **Syntax error: The *keyword\_LIMIT* unit type of *keyword\_units* is not valid.**

**Explanation:** The type of units in the specified keyword value is not valid

**User response:** Correct the job command file, then resubmit the job.

---

---

2512-449     **Syntax error: The *keyword\_LIMIT = keyword\_value* integer value has too many digits. Maximum allowed is *digits*.**

**Explanation:** The specified keyword integer value has too many digits.

**User response:** Correct the job command file, then resubmit the job.

---

2512-450     **Syntax error: The *keyword\_LIMIT = keyword\_value* fraction value has too many digits. Maximum allowed is *digits*.**

**Explanation:** The specified keyword fractional value has too many digits.

**User response:** Correct the job command file, then resubmit the job.

---

2512-451     **Syntax error: The *keyword\_LIMIT = keyword\_value* value must be numeric.**

**Explanation:** The specified keyword value must be numeric.

**User response:** Correct the job command file, then resubmit the job.

---

2512-452     **Syntax error: The *keyword\_LIMIT = keyword\_value* cannot contain a value of zero.**

**Explanation:** The specified keyword value must be greater than zero.

**User response:** Correct the job command file, then resubmit the job.

---

2512-453     **Syntax error: The *keyword\_LIMIT* value *keyword\_value* has too many characters.**

**Explanation:** The specified keyword value units has too many characters.

**User response:** Correct the job command file, then resubmit the job.

---

2512-454     **Syntax error: The time *keyword* format is invalid.**

**Explanation:** The time format in the specified keyword value is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

2512-455     **Syntax error: *line*.**

**Explanation:** The specified line in the job command file is not valid; the syntax is unknown.

**User response:** Correct the job command file, then resubmit the job.

---

2512-456     **The *keyword\_LIMIT = keyword\_value* soft limit of (*limit units*) exceeds user hard limit (*limit units*).**

**Explanation:** The soft limit in the specified keyword value exceeds the hard limit value.

**User response:** Correct the job command file, then resubmit the job.

---

2512-457     **Unable to generate a temporary file name for stdin input file.**

**Explanation:** The command cannot generate a temporary file name.

**User response:** Verify that the user has valid file permissions. If the problem persists, then report it to the system administrator.

---

2512-458     **Unable to open command file *filename* for output.**

**Explanation:** The command cannot open the specified temporary command file.

**User response:** Verify that the user has valid file permissions. If the problem persists, report it to the system administrator.

---

---

**2512-459**     **Unable to unlink file *filename*.**

**Explanation:** The command cannot delete the specified temporary command file.

**User response:** Verify that the user has valid file permissions. If the problem persists, then report it to the system administrator.

---

**2512-460**     **Unable to write stdin input file to *temp\_filename*.**

**Explanation:** The command cannot write the **stdin** command file to the specified temporary command file.

**User response:** Verify that the user has valid file permissions. If the problem persists, then report it to the system administrator.

---

**2512-461**     **Unexpectedly large line from stdin file.**

**Explanation:** The **stdin** command file is too large.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-462**     **Write error copying input command file.**

**Explanation:** The command could not copy the **stdin** command file to the temporary command file.

**User response:** Verify that the user has valid file permissions. If the problem persists, then report it to the system administrator.

---

**2512-465**     **Syntax error: The time *keyword\_value* contains non-numeric characters.**

**Explanation:** The specified time format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-466**     **Syntax error: The start date must be 12 digits [YYMMDDhhmmss].**

**Explanation:** The specified date and time format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-467**     **Syntax error: For the *keyword* keyword, *month\_value* is not a valid month.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-468**     **Syntax error: For the *keyword* keyword, *day\_value* is not a valid day.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-469**     **Syntax error: For the *keyword* keyword, *hour\_value* is not a valid hour.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-470**     **Syntax error: For the *keyword* keyword, *minute\_value* is not a valid minute.**

**Explanation:** The specified time format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

---

**2512-471**     **Syntax error: For the *keyword* *keyword*, *second\_value* is not a valid second.**

**Explanation:** The specified time format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-472**     **Syntax error: For *keyword* = *keyword\_value*, the MM is not valid MM/DD/YY.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-473**     **Syntax error: For *keyword* = *keyword\_value*, the DD is not valid MM/DD/YY.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-474**     **Syntax error: For *keyword* = *keyword\_value*, the YY is not valid MM/DD/YY.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-475**     **Syntax error: For *keyword* = *keyword\_value*, the date format is not valid MM/DD/YY.**

**Explanation:** The specified date format is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-476**     **Unable to switch locale to *locale*, possibly because that locale is not installed on this system. Using locale={*locale*} instead.**

**Explanation:** The specified command could not switch to the locale specified in the user's environment variables. LoadLeveler is using the default locale specified in the error message.

**User response:** Verify that the locale specified by the LC\_ALL environment variable is installed on the machine where the command is being run. The command will execute, but any locale information—including the message catalog—will come from the default locale.

---

**2512-477**     **Unable to restore LC\_COLLATE locale to *original\_value*. It will be left as: *value* used.**

**Explanation:** The specified command could not restore LC\_COLLATE to its original value, prior to running the command. The value from the user's environment will be used.

**User response:** Verify that the original locale is installed on the machine on which the command is being run.

---

**2512-478**     ***job name* could not open *executable name* to check for magic number.**

**Explanation:** The `llsubmit` command could not open the specified executable to verify that it is in the correct extended object file format (XCOFF).

**User response:** Verify that the executable file exists, and that it has appropriate access permissions.

---

**2512-479**     ***job name* read (*file descriptor*, *file header address*, *file header size*) for magic number failed.**

**Explanation:** The `llsubmit` command could not read the specified executable's extended object file format header (XCOFF).

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

---

**2512-480**     **Bad magic number in xcoff header.**

**Explanation:** The specified executable's extended object file format (XCOFF) is not recognized as one that will run on the specified machine.

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

**2512-481**     **Bad a.out header size in xcoff header.**

**Explanation:** The a.out header in the job's executable could not be read.

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

**2512-482**     **Read: read (executable file descriptor, a.out header address, header size) failed for job name executable.**

**Explanation:** The read action failed for the specified executable.

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

**2512-483**     **Bad magic number in a.out header.**

**Explanation:** The job's executable has an inappropriate extended object file format (XCOFF).

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

**2512-484**     *job name* **nlist (executable name, nl structure array address) call fails. Return code = return code, errno = error num.**

**Explanation:** The nlist system call failed for the specified executable.

**User response:** Verify that the executable is binary, that it has been compiled on the correct operating system platform, and that it is not stripped. Consult the specified error message for more information.

---

**2512-486**     *job name* **could not open executable name to check for magic number.**

**Explanation:** The calling program could not open the specified executable.

**User response:** Verify that the executable file exists, and that it has the correct access permissions.

---

**2512-487**     *job name* **could not read executable name to check for magic number, errno = error num.**

**Explanation:** The calling program cannot read the specified executable to check its extended object file format (XCOFF) header.

**User response:** Verify that the executable file has the correct access permissions.

---

**2512-488**     *job name* **could not read file header of executable name to check for magic number.**

**Explanation:** The calling program cannot read the specified executable's extended object file format (XCOFF) header.

**User response:** Verify that the executable has the correct file access permissions, that it is binary, and that it has been compiled on the correct operating system platform.

---

**2512-489**     *job name* **Magic number of executable executable name is not SHARE\_MAGIC.**

**Explanation:** The specified executable is not in SHARE\_MAGIC format.

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

---

**2512-490**     *job name* **Executable executable name is not compiled for this architecture.**

**Explanation:** The specified executable is not compiled to run on this operating system platform.

**User response:** Verify that the executable is binary, and that it has been compiled on the correct operating system platform.

---

**2512-491**     **mbstowcs() error converting string** (*multibyte character input string*).

**Explanation:** The command, which uses the **mbstowcs** system call, encountered an error while attempting to convert the command line input from a multibyte character string to a wide character string.

**User response:** Verify that the multibyte character input string is valid, then retry the command. If the problem persists, contact IBM service.

---

**2512-492**     **Syntax error: error description. Discovered at line line num in file filename.**

**Explanation:** The command encountered an error while parsing the command input at the specified line.

**User response:** Examine the expression on the specified line for incorrect syntax. Correct the problem, then retry the command.

---

**2512-493**     **Unable to evaluate expression in function at line line num.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2512-494**     **Expression expression name expected type string, but was expression type**

**Explanation:** While processing a set expression, the specified command expected to find a character string, but found the specified type instead.

**User response:** If this message has not provided sufficient information, then contact the LoadLeveler administrator.

---

**2512-495**     **Input file contains string, command file line, with non-ASCII characters.**

**Explanation:** The command detected non-ASCII characters in the specified line. LoadLeveler expects all input to be in ASCII characters.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-496**     **Syntax error: For keyword = keyword value, the MM is not valid [MM/DD/YY or MM/DD/YYYY].**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-497**     **Syntax error: For keyword = keyword value, the DD is not valid [MM/DD/YY or MM/DD/YYYY].**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-498**     **Syntax error: For keyword = keyword value, the year is not valid [MM/DD/YY or MM/DD/YYYY].**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the command file, then resubmit the job.

---

---

**2512-499**     **Syntax error: For *keyword = keyword value*, the date format is not valid [MM/DD/YY or MM/DD/YYYY].**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-500**     **Syntax error: For *keyword = keyword value*, the value of YY in [MM/DD/YY or MM/DD/YYYY] can not be in the range 39–68.**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-501**     **Syntax error: For *keyword = keyword value*, the value of YYYY in [MM/DD/YY or MM/DD/YYYY] must be in the range 1969–2038.**

**Explanation:** The date format for the specified keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-502**     **Syntax error: The date specified (*year = year, month = month, day = day*) is not a valid date.**

**Explanation:** The specified date is not valid.

**User response:** Correct the command file, then resubmit the job.

---

**2512-504**     **Version *version\_number* of LoadLeveler for Linux does not support the *function* function.**

**Explanation:** This version of LoadLeveler for Linux does not support the specified function name.

**User response:** Do not specify an API or a function name that is not supported by this version of LoadLeveler for Linux.

---

**2512-505**     **Error in *file\_name*, line *line\_number*: expected *expected\_token\_type*, encountered *encountered\_token\_type*.**

**Explanation:** A syntax error occurred during parsing of the LoadLeveler administration file. The parser encountered a token type that it was not expecting. When this happens, the parser will continue processing the file, but the results may not be what was intended.

**User response:** Correct the error in the administration file and restart LoadLeveler.

---

**2512-576**     **Syntax error: keyword MCM\_AFFINITY\_OPTIONS can be used only if the keyword RSET is set to the value RSET\_MCM\_AFFINITY.**

**Explanation:** This message is generated when the **mcm\_affinity\_options** keyword is used without specifying the **rset** keyword in the job command file.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-577**     ***value* is not a valid value for the keyword *keyword\_name*.**

**Explanation:** This message is generated when the value specified for keyword is not valid.

**User response:** Correct the job command file, then resubmit the job.

---

**2512-578**     **One of the values for keyword *keyword\_name* was specified more than once.**

**Explanation:** This message is generated when one of the values for a keyword is specified repeatedly.

**User response:** Correct the job command file, then resubmit the job.

---

---

2512-579     **The values for keyword *keyword\_name* have conflicting requirements.**

**Explanation:** One of the values specified for the keyword conflicts with another value. (for example, MCM\_AFFINITY\_OPTIONS=mcm\_mem\_req mcm\_mem\_none).

**User response:** Correct the job command file, then resubmit the job.

---

2512-580     **Adapter affinity is supported only for parallel jobs.**

**Explanation:** The job requests adapter affinity for a serial job.

**User response:** Set the value for keyword MCM\_AFFINITY\_OPTIONS to mcm\_sni\_none and resubmit the job.

---

2512-581     **Adapter affinity is supported only for job steps that do not request striping.**

**Explanation:** The job requests adapter affinity along with striping.

**User response:** Correct the job command file, then resubmit the job.

---

2512-582     **Unable to create and open temporary file *temporary\_file\_name* for string *string\_being\_processed* processing of job command file *job\_command\_file\_name*. Error = *error\_message* [*error\_message*]**

**Explanation:** The temporary file could not be created and opened for writing, so the original job command file could not be copied or modified to contain a *cluster\_list* statement. The job is not submitted.

**User response:** Check the file system to determine why the temporary file could not be created. Correct the problem and resubmit the job.

---

2512-583     **Unable to open job command file *temporary\_file\_name* for reading. Error = *error* [*error\_message*]**

**Explanation:** The job command file could not read, so it could not be modified to contain a *cluster\_list* statement. The job is not submitted.

**User response:** Check the file system to determine why the job command file could not be read. Correct the problem and resubmit the job.

---

2512-584     **Unable to write temporary file *temporary\_file\_name* for string *string* processing of job command file *job\_command\_file\_name*. Error = *error* [*error\_message*]**

**Explanation:** An error occurred while writing the temporary file to contain the original job command file. This can occur for the *cluster\_list* statement or when copying the user's job command file. The job is not submitted.

**User response:** Check the file system to determine why the temporary file could not be written. Correct the problem and resubmit the job.

---

2512-585     **The *keyword* keyword is only valid for job\_type = *job\_type* job steps.**

**Explanation:** This keyword is valid only with the specified job type.

**User response:** Correct the job command file and resubmit the job.

---

| 2512-586     **A coscheduled step references another coscheduled step in the statement dependency = *dependency\_statement*.**

| **Explanation:** A coscheduled step cannot reference another coscheduled step in a dependency statement because all coscheduled steps must be started at the same time.

| **User response:** Do not specify the name of a coscheduled step in the dependency statement of another coscheduled step.

---

---

2512-587    **The job command file keyword *job\_command\_file\_keyword* cannot be assigned the value *job\_command\_file\_keyword\_value* unless the configuration keyword *configuration\_keyword* is set to *configuration\_keyword\_value*.**

**Explanation:** The specified job command file keyword can be used only if the associated configuration keyword is set.

**User response:** Set the configuration keyword to the appropriate value, reconfigure LoadLeveler, then resubmit the job.

---

2512-588    **The job command file keyword *job\_command\_file\_keyword* of a parallel job cannot be assigned the value *job\_command\_file\_keyword\_value* unless the configuration keyword *configuration\_keyword* is set to *configuration\_keyword\_value*.**

**Explanation:** The specified job command file keyword can be used only if the associated configuration keyword is set.

**User response:** Set the configuration keyword to the appropriate value, reconfigure LoadLeveler, then resubmit the job.

---

2512-601    **Network Table could not be loaded on node *node\_name* due to an internal error, *ntbl\_load\_table* returned error *error\_msg*.**

**Explanation:** The Network Table for a job could not be loaded on the specified machine because of an internal error.

**User response:** Report the failure to IBM service.

---

2512-602    **The specific window *window\_name* could not be unloaded on node *node\_name* due to a system error, *ntbl\_clean\_window* returned error *error\_msg*.**

**Explanation:** The Network Table for a job could not be unloaded on the specified machine because of a system error.

**User response:** Examine the network table log in `/var/adm/sni/ntbl_log` for the cause of the failure.

---

2512-603    **The specific window *window\_name* could not be unloaded on node *node\_name* due to an internal error, *ntbl\_clean\_window* returned error *error\_msg*.**

**Explanation:** The Network Table for a job could not be unloaded on the specified machine because of an internal error.

**User response:** Report the failure to IBM service.

---

2512-604    **The Network Table library dynamic load failed on node *node\_name* for the following reason: *reason***

**Explanation:** The Network Table library dynamic load failed on the specified machine.

**User response:** Correct the problem indicated by the error message.

---

2512-605    **Could not determine status for adapter *adapter\_name*. Resource Monitoring and Control API failed with rc *code***

**Explanation:** The switch table service (`st_query_adapter`) failed to obtain and return the status of the switch. The switch will be treated as NOT\_READY.

**User response:** Correct the problem indicated by the return code.

---

2512-606    **Network Table window *window\_name* could not be unloaded on node *node\_name* due to a system error, *ntbl\_unload\_table* returned error *error\_msg*.**

**Explanation:** The Network Table for a job could not be unloaded on the specified machine because of a system error.

**User response:** Examine the switch table log in `/var/adm/sni/ntbl_log` for the cause of the failure.

---

**2512-607** Previous Network Table could not be removed on node *node\_name* for the following reason: *reason*.

**Explanation:** The previous network table for a job could not be removed on the specified machine.

**User response:** Correct the problem indicated by the error message.

---

**2512-608** Network table could not be loaded on node *node\_name*.

**Explanation:** The network table for a job cannot be loaded on the specified machine because of a system error.

**User response:** Examine the switch table log in */var/adm/sni/ntbl\_log* for the cause of the failure.

---

**2512-609** Network Table could not be loaded on node *node\_name* due to a system error, *ntbl\_load\_table* returned error *error\_msg*.

**Explanation:** The Network Table for a job could not be loaded on the specified machine because of a system error.

**User response:** Examine the network table log in */var/adm/sni/ntbl\_log* for the cause of the failure.

---

**2512-611** Attention: An *adapter\_type* of *type* was specified in the adapter stanza name of *name*, adapter *adapter\_name* will be created.

**Explanation:** An adapter stanza referenced a nonexistent *adapter\_type*.

**User response:** Adapter stanzas should refer only to an existing *adapter\_type*.

---

**2512-612** Attention: A "sn" adapter specified for adapter: *adapter\_name* but no "logical\_id" was found.

**Explanation:** No *logical\_id* was associated with the specified adapter stanza.

**User response:** Specify a *logical\_id* for the specified adapter stanza.

---

**2512-613** Attention: The *adapter\_type* value specified for the switch adapter, *adapter\_name*, is not valid.

**Explanation:** The specified adapter's *adapter\_type* value was not valid.

**User response:** Specify a valid *adapter\_type* value, then reconfigure LoadLeveler. Refer to *TWS LoadLeveler: Using and Administering* for the appropriate values.

---

**2512-614** The *adapter\_type* is ignored.

**Explanation:** The *adapter\_type* is ignored.

**User response:** Consult the previous error message for more information.

---

**2512-615** Attention: An *adapter\_type* value was not specified for the switch adapter: *adapter*.

**Explanation:** All switch adapters must have the *adapter\_type* keyword specified with an appropriate value.

**User response:** Specify a valid *adapter\_type* value, then reconfigure LoadLeveler. Refer to *TWS LoadLeveler: Using and Administering* for the appropriate values.

---

**2512-616** Defaulting *adapter\_type* to *value*.

**Explanation:** An *adapter\_type* value was not specified for a switch adapter. LoadLeveler will use the specified default value.

**User response:** Enter an *adapter\_type* value for the switch adapter in the LoadLeveler administration file.

---

---

**2512-617**      **Attention: A "sn" adapter specified for adapter: *adapter\_name* but no "network\_id" was found.**

**Explanation:** No **network\_id** was associated with the specified adapter stanza.

**User response:** Specify a **network\_id** for the specified adapter stanza.

---

**2512-618**      **Version *version* of LoadLeveler does not support *feature*.**

**Explanation:** This version of LoadLeveler does not support the specified feature.

**User response:** Do not specify the parameters associated with this feature in your configuration file or job command file.

---

**2512-619**      **The *keyword* keyword can not be used in the *version* version of LoadLeveler.**

**Explanation:** The specified keyword cannot be used by this version of LoadLeveler.

**User response:** Do not specify the parameters associated with this feature in your configuration file or job command file.

---

**2512-620**      **Too many macro expansions while processing *string\_being\_expanded*. Stopped at *expanded\_string\_when\_expansion\_quit*. Possible recursion. Macro will not be expanded.**

**Explanation:** During expansion of LoadLeveler macros, a single string was expanded too many times. Typically this is due to a recursive macro definition, but can also occur with complicated macros.

**User response:** If the macro is defined recursively, remove the recursion. If the macro is complicated with many substitutions, it must be simplified.

---

**2512-623**      **The *substanza specified\_stanza\_label* (type *specified\_stanza\_type*) is not appropriate within a stanza of type *type\_of\_stanza\_being\_processed*.**

**Explanation:** A stanza type that accepts substanzas can only accept certain types of substanzas. This message is displayed when a stanza is specified that has a type that is not accepted in the type of stanza being processed (for example, a class stanza cannot contain a class stanza). An error message is also displayed when a stanza type that is not valid is specified.

**User response:** Correct the stanza that is not valid in the administration file and reconfigure or restart LoadLeveler.

---

**2512-624**      **Attention: Unknown keyword *specified\_keyword* for *substanza\_type* *substanza stanza\_label* in *stanza\_type stanza stanza\_label*. Ignored.**

**Explanation:** The specified stanza contains an unknown keyword. Although the keyword may be acceptable in other contexts, it is not recognized when used in this type of stanza within this type of stanza.

**User response:** See *TWS LoadLeveler: Using and Administering* for the **LoadL\_admin** stanza syntax.

---

| **2512-625**      **Attention: An *adapter\_name* adapter was specified for adapter *adapter\_stanza\_name*, but a **port\_number****  
| **was not found.**

| **Explanation:** The **port\_number** keyword is required in the specified adapter stanza, but a port number was not  
| found.

| **User response:** Specify a **port\_number** for the specified adapter stanza.

---

| **2512-626**      **Attention: An *adapter\_name* adapter was specified for adapter *adapter\_stanza\_name*, but a **logical\_id****  
| **was not found.**

| **Explanation:** The **logical\_id** keyword cannot be associated with the specified adapter stanza.

| **User response:** Specify a **logical\_id** for the specified adapter stanza.

---

---

2512-627	<b>Attention: An <i>adapter_name</i> adapter was specified for adapter <i>adapter_stanza_name</i>, but a <i>network_id</i> was not found.</b>
	<b>Explanation:</b> The <i>network_id</i> keyword cannot be associated with the specified adapter stanza.
	<b>User response:</b> Specify a <i>network_id</i> for the specified adapter stanza.

---

2512-628	<b>Attention: An <i>ib</i> adapter was specified for adapter <i>adapter_stanza_name</i>, but a <i>network_id</i> that is not valid was found.</b>
	<b>Explanation:</b> A <i>network_id</i> keyword that is not valid is being associated with the specified adapter stanza. A valid <i>network_id</i> for the InfiniBand adapter is converted from a GID of the InfiniBand adapter.
	<b>User response:</b> Specify a valid <i>network_id</i> for the specified adapter stanza.

---

2512-629	<b>The configuration keyword <i>configuration_keyword_name</i> is set to <i>configuration_keyword_value</i>. However, <i>executable_name</i> is not found on the system.</b>
	<b>Explanation:</b> A configuration keyword was specified with an executable that does not exist on the machine.
	<b>User response:</b> Verify that a full path name for the executable is specified and exists on the system.

---

2512-689	<b>The DeviceName is missing from the returned RMC data from the IBM.NetworkInterface for adapter <i>adapter_name</i> with address <i>IP_address</i> for the OSI (machine) <i>OSI_machine_name</i>. This may cause errors when attempting to use the adapter or load the switch table.</b>
	<b>Explanation:</b> The adapter in question requires a DeviceName for loading the switch table. The DeviceName was missing from the data retrieved from the RMC.
	<b>User response:</b> Check the data in the IBM.NetworkInterface for the OSI to determine why the DeviceName is missing.

---

2512-690	<b>Unable to open the file <i>file name</i> for processing: <i>error information</i>. Verify that RSCT is installed.</b>
	<b>Explanation:</b> The command cannot open the specified RSCT library file for processing.
	<b>User response:</b> Check that the RSCT package is installed on this system.

---

2512-691	<b>Unable to obtain address of <i>symbol name</i> symbol in RSCT library <i>RSCT library name</i>: <i>error information</i>.</b>
	<b>Explanation:</b> The command cannot obtain the address of the symbol from the specified RSCT library.
	<b>User response:</b> Check that the RSCT package installed is compatible with this version of LoadLeveler.

---

2512-692	<b>Command is unsupported on 64-bit platforms at this time.</b>
	<b>Explanation:</b> The command is not available on this 64-bit platform because the dependent 64-bit RSCT library is not available at this time.
	<b>User response:</b> Use another method to create machine and adapter stanzas for the <b>LoadL_admin</b> file.

---

2512-693	<b>An error <i>system_error_message</i> occurred while processing the host list. Error is <i>error_message</i>. Unable to continue.</b>
	<b>Explanation:</b> The <b>extract</b> command cannot obtain data for the peer domain because <b>cu_get_cluster_info</b> returned an error.
	<b>User response:</b> Verify that the current OSI you are running on is in a properly defined cluster and that the cluster has been started.

---

---

**2512-700**     **The clusters *cluster\_name* and *cluster\_name* are not configured to use the same security method.**

**Explanation:** In order for two clusters to communicate, the values for the `security_method` keyword in the cluster stanzas must be the same for the two clusters.

**User response:** Correct the administration file and recycle LoadLeveler on all of the affected machines.

---

**2512-701**     **The keyword `RSET_SUPPORT` was set to *keyword\_value*, but the RSet API is not available on *machine\_name*.**

**Explanation:** LoadLeveler did not start since the RSet API, which is required for RSet support, is not available on this machine.

**User response:** Install the RSet API or disable RSet support by taking out the `RSET_SUPPORT` keyword.

---

**2512-702**     **The keyword `RSET_SUPPORT` is set to `RSET_MCM_AFFINITY` on machine *machine\_name*, but memory affinity is not enabled on this machine.**

**Explanation:** LoadLeveler did not start because memory affinity was not enabled on this machine.

**User response:** In order to enable memory affinity, use the `vm0` or `vm tune` command and then reboot the machine. Verify that memory affinity is enabled by using the same command and then restart LoadLeveler.

---

**2512-703**     **The keyword `RSET_SUPPORT` is set to `RSET_MCM_AFFINITY` on machine *machine\_name*, but LoadLeveler cannot be configured to use memory affinity. Reason - *reason*.**

**Explanation:** LoadLeveler did not start due to an error while processing the `RSET_SUPPORT` keyword.

**User response:** Resolve this issue or change the value for this keyword and restart LoadLeveler.

---

**2512-704**     **The keyword `RSET_SUPPORT` is set to `RSET_CONSUMABLE_CPUS` on machine *machine\_name*, but the configuration file keyword `SCHEDULE_BY_RESOURCES` does not specify `ConsumableCpus`.**

**Explanation:** LoadLeveler did not start because setting `RSET_SUPPORT` to `RSET_CONSUMABLE_CPUS` requires `ConsumableCpus` to be enabled.

**User response:** Edit your `LoadL_config` and `LoadL_admin` files to enable schedule by resources for `ConsumableCPUs` and restart LoadLeveler.

---

**2512-705**     **LoadLeveler license RPM must be installed on this machine. You must also accept the license agreement.**

**Explanation:** LoadLeveler did not start because either the license RPM is not installed or the license agreement was not accepted.

**User response:** Install the license RPM and accept the license agreement, then restart LoadLeveler.

---

**2512-706**     **Syntax error: *error\_description***

**Explanation:** An error was encountered while parsing the specified line.

**User response:** Correct the problem and try again.

---

**2512-707**     ***keyword=value* is not a valid keyword assignment.**

**Explanation:** The `keyword=value` is the parameter for the `llmodify -k` option. It must be of the form `keyword=value` (with no spaces). If not in this format, a message is displayed.

**User response:** Reissue the `llmodify -k` command with a valid `keyword=value` specification.

---

---

**2512-709**     **At least one schedd is down.**

**Explanation:** The request was rejected because one or more schedd daemons went down while the central manager was running.

**User response:** Make sure that all schedd daemons are available before retrying the request. If a schedd daemon is never brought up after the central manager is running, the request can still be granted but the requested action must be performed manually on the missing schedd machine. For example, the fair share scheduling data files in the SPOOL directory will have to be removed for the `llfs -r` request.

---

**2512-710**     **Support for fair share scheduling is not enabled.**

**Explanation:** Fair share scheduling is not enabled.

**User response:** The `FAIR_SHARE_TOTAL_SHARES` configuration keyword must be greater than zero to enable LoadLeveler support for fair share scheduling.

---

**2512-712**     **LoadLeveler daemons cannot be run while LoadLuserid *user\_name* is not in /etc/passwd file.**

**Explanation:** The `LoadLuserid` defined in `/etc/LoadL.cfg` does not exist in the `passwd` file.

**User response:** Make sure that the `LoadLuserid` exists in the `passwd` file before starting up or reconfiguring LoadLeveler.

---

| **2512-716**     **You are not authorized to issue the *command\_name* command.**

| **Explanation:** You do not have the authority to issue the specified command.

| **User response:** Contact the LoadLeveler administrator.

---

| **2512-725**     **The directory *directory\_name* is not accessible.**

| **Explanation:** The specified directory name does not have read, write, or execute permission by the LoadLeveler administrator.

| **User response:** Verify that the directory is accessible to the LoadLeveler administrator.

---

| **2512-726**     **The LoadL\_schedd on host *machine\_name* is in the drained state.**

| **Explanation:** The Schedd is in the `drained` state and cannot accept any new jobs.

| **User response:** Retry the command on another Schedd.

---

| **2512-727**     **The LoadL\_schedd on host *machine\_name* cannot receive the executables for job *job\_name*.**

| **Explanation:** An error occurred during the routing of the executables.

| **User response:** Verify that the Schedd has sufficient spool space. Additional information can be found in the Schedd's log.

---

| **2512-728**     **The LoadL\_schedd on host *machine\_name* cannot receive the user's job command file for job *job\_name*.**

| **Explanation:** An error occurred while routing the user's job command file to the Schedd.

| **User response:** Verify that the Schedd has sufficient spool space. Additional information can be found in the Schedd's log.

---

| **2512-730**     **The LoadL\_schedd on host *hostname* is not fenced.**

| **Explanation:** The schedd is not fenced.

| **User response:** Set the `schedd_fenced` administration keyword to `true` for the machine and issue the `llctl reconfig` command.

---

---

| 2512-731     **The LoadL\_schedd on host *hostname* is already managing a job that has the same job identifier as job *job\_identifier*.**

| **Explanation:** The Schedd found a job in its list with the same job identifier. In this case, the Schedd already accepted a job from the **llmovespool** command and it cannot accept the same job again.

| **User response:** The job is already in the system. Do not try to move the job spool records again.

---

| 2512-732     **The LoadL\_schedd on host *hostname* is fenced.**

| **Explanation:** The Schedd is fenced and cannot perform the requested function.

| **User response:** Unset the **schedd\_fenced** administration keyword for the machine and issue the **llctl reconfig** command.

---

| 2512-733     **Machine *machine\_name* is not listed in the LoadLeveler administration file and machine authentication is enabled.**

| **Explanation:** When machine authentication is turned on, machines that are not listed in the **LoadL\_admin** file cannot be communicated with.

| **User response:** Add the machine to the local LoadLeveler administration file and reissue the command.

---

2512-751     *checkpoint or restart* **failed with errno *error\_number* [*error\_message*], checkpoint file = *file\_name*, checkpoint error file = *file\_name*.**

**Explanation:** A checkpoint or restart operation failed. The reason for failure was not written to the checkpoint error file. The most likely cause of this failure is that the checkpoint file or the error file is not accessible or there is insufficient space in the file system to create the necessary files.

**User response:** Consult the specified error message for more information.

---

| 2512-752     **Request to checkpoint job step *job\_step\_ID* is ignored because the checkpoint and hold option is not allowed for a coschedule step.**

| **Explanation:** The checkpoint and hold option is not supported for a coschedule step.

| **User response:** Do not specify the checkpoint and hold option when checkpointing a coschedule step.

---

| 2512-753     **Checkpoint of job step *job\_step\_ID* failed due to an internal error (*internal\_error\_description*, File: *file\_name*, Line: *line\_number*).**

| **Explanation:** This is an internal error.

| **User response:** If using the **llckpt** command or the **ll\_ckpt** API, reissue the checkpoint request. If the problem persists, contact IBM Service.

---

2512-777     **DR\_Write failed, returned *return\_code*, fd = *file\_descriptor*, errno = *error\_number*.**

**Explanation:** XDR encountered an error; XDR is used to transmit data among LoadLeveler commands and daemons.

**User response:** Have the system administrator verify that the LoadLeveler daemon is still running. If the problem persists, contact IBM service.

---

2512-826     **Error during restart.**

**Explanation:** An error was encountered while attempting to restart a program from a checkpoint file.

**User response:** Ensure that a valid checkpoint file exists and that the program is being restarted on the same operating system level that it originally began execution on. Refer to the LoadLeveler documentation to ensure that the program conforms to the restrictions that apply to checkpointable programs.

---

---

**2512-827 Error while taking checkpoint.**

**Explanation:** An error was encountered while attempting to save a program's state to a checkpoint file.

**User response:** Ensure that enough space exists to write the checkpoint file and that the permissions in the target location are correct. Refer to the LoadLeveler documentation to ensure that the program conforms to the restrictions that apply to checkpointable programs.

---

**2512-828 File is not a serial program checkpoint file.**

**Explanation:** The file specified does not have the format of a serial checkpoint file.

**User response:** Ensure that the file specified as a checkpoint file is a valid checkpoint file. Resubmit the job. If the problem persists, contact IBM service.

---

**2512-829 ckpt() can be called only when running under LoadLeveler with checkpointing enabled.**

**Explanation:** A program with the LoadLeveler ckpt() API was executed outside the scope of LoadLeveler.

**User response:** Create a LoadLeveler job command file specifying the program as the executable. Refer to *TWS LoadLeveler: Using and Administering* for additional information on how to code a job command file for checkpointing. Submit the job using `llsubmit job_command_file`.

---

**2512-830 Checkpointing not enabled.**

**Explanation:** The `CHKPT_STATE` environment variable was not set to `enable`.

**User response:** Set the `CHKPT_STATE=enable` environment variable in the environment of the program to be checkpointed.

---

**2512-831 Checkpoint file *file\_name* already exists.**

**Explanation:** The specified checkpoint file already exists. Checkpointing does not overwrite existing checkpoint files.

**User response:** Specify the name of a file that does not exist as your program's checkpoint file.

---

**2512-832 Program *program\_name* has changed from time of checkpoint.**

**Explanation:** The program that is being restarted has been recompiled or relinked since the time its checkpoint file was written.

**User response:** Either run the program from the beginning, or restart from a current checkpoint file, if one exists.

---

**2512-833 Specified checkpoint file is not compatible with executable.**

**Explanation:** The checkpoint file was either created by another program, or an earlier version of the program is being restarted.

**User response:** Either run the program from the beginning, or restart from a compatible checkpoint file, if one exists.

---

**2512-834 *file\_name* is not a valid checkpoint file.**

**Explanation:** The specified file is not a checkpoint file.

**User response:** Ensure that the file specified as a checkpoint file is a valid checkpoint file. Resubmit the job. If the problem persists, contact IBM service.

---

**2512-835 User *username* is not authorized to checkpoint the job.**

**Explanation:** Only the owner of a job or an administrator can request a checkpoint for a job.

**User response:** Verify that the user has permission to checkpoint the job.

---

---

**2512-836 Request to checkpoint job step *job id* is ignored, job step not found.**

**Explanation:** The job step for the specified ID was not found. The checkpoint request is ignored.

**User response:** Verify that a valid job step ID was specified and that the job step is still running.

---

**2512-837 Request to checkpoint job step *job id* is ignored, a checkpoint is pending or already is in progress.**

**Explanation:** A previous request to checkpoint the specified job step is in progress. The checkpoint request is ignored.

**User response:** Verify that a job step is not already checkpointing before requesting a checkpoint.

---

**2512-839 Request to checkpoint job step *job\_step\_ID* failed because the checkpoint order cannot be sent to the *LoadLeveler\_daemon\_name* on node *job\_state*.**

**Explanation:** Either the connection to the specified daemon on the specified node failed, or the transmission of the checkpoint order failed.

**User response:** Verify that the LoadLeveler daemon is running on the specified host and that the host can be accessed on the network.

---

**2512-838 Request to checkpoint job step *job id* is ignored because the job step is not running, current state = *job state*.**

**Explanation:** The specified job step could not be checkpointing because it was not in a running state.

**User response:** Before requesting a checkpoint verify that a job step is running is in a running state and that job processes are actually running.

---

**2512-839 Request to checkpoint job step *job id* failed because the checkpoint order cannot be sent to the *daemon\_name* on node *node\_name*.**

**Explanation:** Either the connection to the specified daemon on the specified node failed or the transmission of the checkpoint order failed.

**User response:** Verify that the LoadLeveler daemon is running on the specified host, and that the host can be accessed on the network.

---

**2512-840 Request to checkpoint job step *job\_ID* is ignored because checkpointing is not enabled for the job step.**

**Explanation:** The CHECKPOINT option in the job command file was not set to enable checkpointing.

**User response:** Enable checkpointing for the job step by setting the CHECKPOINT option in the job command file to an appropriate value.

---

**2512-841 Checkpoint operation failed because the process initiating the checkpoint terminated abnormally (exit code = *value* signal = *value*).**

**Explanation:** Under certain circumstances, LoadLeveler starts a new process to initiate a checkpoint of a job step. That process terminated with a signal or with a nonzero exit code indicating that the checkpoint operation was not started.

**User response:** Verify that the binary, `llckptstarter`, is installed in the same directory as the `LoadL_starter` binary and verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes.

---

**2512-842 Step *job step* terminated before checkpoint status could be determined.**

**Explanation:** The status of a checkpoint request could not be determined because either the checkpoint status information could not be sent from the machines initiating the checkpoint, or the status information was not received before the job step terminated.

---

**User response:** Examine the files in the checkpoint directory to determine if a successful checkpoint was taken. If the problem persists, contact IBM service.

---

**2512-843** Checkpoint FAILED for job step *job\_step\_ID*, with the following error: primary error code = *primary\_error*, secondary error code = *secondary\_error/extended\_error*, error msg len = *length*, error msg = *message*

**Explanation:** The checkpoint could not be taken.

**User response:** Correct any errors identified by the error codes or error message file. If the problem persists, then contact IBM service.

---

**2512-844** Initialization of checkpoint for job step *job\_step* has been unsuccessful. *error\_message*

**Explanation:** The checkpoint could not start. This message is issued when a job step being checkpointed with the no wait option cannot start. There may be additional message information.

**User response:** Ensure LoadLeveler and the job step selected for checkpoint are running. Correct other error conditions indicated by the error codes and error message (if provided).

---

**2512-845** Restart from checkpoint file, *filename*, failed with the following error: primary error code = *error\_code*, secondary error code = *error\_code2*, error msg len = *message\_length*, error msg = *error\_msg*.

**Explanation:** The restart operation for the job step failed. The job was canceled.

**User response:** Correct the error condition indicated by the error codes and error message (if provided).

---

**2512-846** Time is not specified or the time format is not valid. The time should be specified using the format: [mm/dd[/cc]yy] ]HH:MM.

**Explanation:** The start time of the reservation must be specified using the **-t** flag.

**User response:** Specify a valid start time in the form: [mm/dd[/cc]yy] ]HH:MM.

---

**2512-847** Duration of at least *minimum\_number\_of\_minutes* minutes must be specified.

**Explanation:** The duration of the reservation is either missing or not valid.

**User response:** Specify the duration of the reservation as an integer greater than the minimum number of minutes.

---

**2512-848** No *keyword* was specified. *keyword* is required with the *option* option.

**Explanation:** The specified *option* was provided without a value.

**User response:** When using the specified *option*, reissue the command with the required value.

---

**2512-849** Encountered one or more errors while processing the list of group names.

**Explanation:** The command encountered errors while processing the arguments of the **-g** option.

**User response:** Verify that the group names associated with the **-g** option are valid.

---

**2512-850** The maximum number of reservations allowed for the LoadLeveler cluster cannot be exceeded.

**Explanation:** The number of reservations allowed to be waiting or active in the LoadLeveler cluster has been reached. Creating the requested reservation will exceed the limit. This limit is controlled by the keyword **MAX\_RESERVATIONS** in the LoadLeveler configuration file.

**User response:** Wait for a reservation to complete or be canceled and retry the request.

---

---

**2512-851**      **The request violates time restrictions for creating and modifying reservations.**

**Explanation:** When creating a new reservation, the following rules apply:

- The requested setup begin time (requested start time - **RESERVATION\_SETUP\_TIME**) cannot be earlier than the current time.
- The requested start time must be at least **RESERVATION\_MIN\_ADVANCE\_TIME** minutes from the current time.

When modifying an existing reservation, the following rules apply:

- Users who are not LoadLeveler administrators are not permitted to change the start time, duration, or the nodes selected for the reservation within **RESERVATION\_MIN\_ADVANCE\_TIME** minutes of the current setup begin time (current start time - **RESERVATION\_SETUP\_TIME**).
- When changing the start time, the new start time cannot be earlier than the current time.
- When changing the duration, the new end time (start time + duration) cannot be earlier than the current time.

**User response:** Modify the value violating the time rules and reissue the request.

---

**2512-852**      **The minimum number of nodes that can be reserved is *minimum\_number\_of\_nodes*.**

**Explanation:** You must specify at least the minimum number of nodes.

**User response:** Resubmit the reservation request specifying at least the minimum number of nodes.

---

**2512-853**      **The maximum number of reservations for user *user\_name* has been exceeded.**

**Explanation:** The maximum number of reservations allowed for the specified user has been reached. The user cannot own additional reservations at this time.

**User response:** Resubmit the reservation request once a reservation owned by the user completes.

---

**2512-854**      **The maximum number of reservations for group *group\_name* has been exceeded.**

**Explanation:** The maximum number of reservations allowed for the specified group has been reached. Members of that LoadLeveler group cannot make additional reservations at this time.

**User response:** Resubmit the reservation request once a reservation owned by the group completes.

---

**2512-855**      **Permission denied. Either you do not have the correct authority to perform the reservation request or the request cannot be completed at this time.**

**Explanation:** Permission to perform the request was denied for one of the following reasons:

- You do not have the required authority
- You do not have a reservation quota
- If attempting to remove a machine from a reservation, a bound job is currently running on that machine

**User response:** Determine whether the request has any obvious permission problems and correct as appropriate. If necessary, examine the NegotiatorLog and the SchedLog for messages indicating the reason that the request cannot complete.

---

**2512-856**      **The specified job step *job\_step* for node selection does not exist.**

**Explanation:** The specified job step to select nodes for the reservation does not exist.

**User response:** Resubmit the reservation request using a different job step.

---

**2512-857**      **The specified job step *job\_step* for node selection is not in the correct state.**

**Explanation:** The specified job step to select nodes for the reservation must be in an idle-like state.

**User response:** Resubmit the reservation request using a job step that is in the correct state.

---

---

**2512-858**      **One or more machines in the hostlist are not in the LoadLeveler cluster.**

**Explanation:** At least one of the machines specified in the host list is not in the LoadLeveler cluster.

**User response:** Verify the machine names in the LoadLeveler cluster and resubmit the reservation request using only those machines.

---

**2512-859**      **Reservations are not permitted on one or more machines in the hostlist.**

**Explanation:** At least one of the machines specified in the host list does not allow you to make reservations.

**User response:** Use the `llstatus` command to determine what machines in the LoadLeveler cluster allow you to make reservations and resubmit the reservation request using only those machines.

---

**2512-860**      **The scheduler in use does not support reservations.**

**Explanation:** The LoadLeveler scheduler in use does not support reservations.

**User response:** Use the backfill scheduler that supports reservations. Refer to *TWS LoadLeveler: Using and Administering* for more information on the `scheduler_type` keyword in the configuration file and scheduler types that support reservations.

---

**2512-861**      **The Schedd machine `schedd_host_name` cannot connect to the Central Manager.**

**Explanation:** The schedd machine cannot connect to the central manager to satisfy the request.

**User response:** Verify that the `LoadL_negotiator` daemon is running and that the host can be accessed on the network.

---

**2512-862**      **One or more input parameters are incorrect.**

**Explanation:** One or more parameters contain a value that is not valid.

**User response:** Correct the input and resubmit the request.

---

**2512-863**      **A transmission error or timeout occurred; no specific data is available.**

**Explanation:** An error occurred sending data either between the LoadLeveler daemons or between the daemon and the API.

**User response:** Reissue the request if necessary.

---

**2512-864**      **The requested reservation duration, `minutes` minutes, exceeds the maximum allowed.**

**Explanation:** The administrator has defined the maximum number of minutes that a reservation can take. Your request exceeds that maximum.

**User response:** Reissue the request with a duration less than the maximum number of minutes.

---

**2512-865**      **Cannot connect to the central manager machine.**

**Explanation:** The API cannot connect to the central manager machine to satisfy the request.

**User response:** Verify that the `LoadL_negotiator` daemon is running and that the host can be accessed on the network.

---

**2512-866**      **The requested reservation `reservation_name` does not exist.**

**Explanation:** The specified reservation ID does not exist.

**User response:** Resubmit the request using an existing reservation ID.

---

---

**2512-867**     **Unable to complete the request.** *API\_name* returns *return\_code*.

**Explanation:** The request was not successful.

**User response:** Check the error returned to determine the reason for failure and to see if any corrective action needs to be performed. Refer to *TWS LoadLeveler: Using and Administering* for error code information.

---

**2512-868**     **Incompatible options specified.**

**Explanation:** One or more of the options provided, either from the command line or as input to the API, is incompatible with another option.

**User response:** Resubmit your request with valid input. Refer to *TWS LoadLeveler: Using and Administering* for additional information.

---

**2512-869**     **Reservation ID is required.**

**Explanation:** You did not specify a reservation ID.

**User response:** Resubmit your request specifying a valid reservation ID.

---

**2512-870**     **Encountered one or more errors while processing the list of reservation IDs.**

**Explanation:** The command encountered errors while processing the arguments of the **-R** option.

**User response:** Verify that the reservation names associated with the **-R** option are valid.

---

**2512-871**     **The reservation state does not allow the requested operation.**

**Explanation:** The reservation is in a state that does not allow you to perform the requested operation.

**User response:** Verify the state of the reservation. Refer to *TWS LoadLeveler: Using and Administering* for restrictions when performing the requested operation.

---

**2512-872**     **The argument for the *option* option is missing or missing a blank.**

**Explanation:** The argument for the indicated flag is either missing or a blank is missing between the flag and argument.

**User response:** Reissue the command using the proper syntax. You can either use the **-?** flag to obtain syntax information for the command, or the **-H** flag to get extended usage information.

---

**2512-873**     **The requested reservation duration, *minutes* minutes, exceeds the maximum allowed (*maximum\_minutes* minutes for user *user*, *maximum\_group\_minutes* minutes for group *group*).**

**Explanation:** The administrator has defined the maximum number of minutes that a reservation can take. Your request exceeds that maximum.

**User response:** Reissue the request with a duration less than the maximum number of minutes.

---

**2512-874**     *function\_name* returns *return\_code*. **Please use *command* to check whether the request has been granted.**

**Explanation:** An error code was returned. One possible reason for the error is that a transaction timed out. The request may have been granted already or is to be granted soon. Issue *command* to determine whether the request has been granted.

**User response:** Determine whether the request has been granted. If necessary, reissue the request.

---

**2512-875**     **The method for reserving nodes and the associated data must be specified using one of the following options: *available\_methods*.**

**Explanation:** When creating a reservation, you must provide the method for selecting nodes for the reservation and associated data.

**User response:** Resubmit the reservation request using one of the available methods:

- RESERVATION\_BY\_JOBSTEP (-j flag)
- RESERVATION\_BY\_NODE (-n flag)
- RESERVATION\_BY\_HOSTLIST (-h flag)
- RESERVATION\_BY\_JCF (-f flag)
- RESERVATION\_BY\_BG\_CODE (-c flag)

---

**2512-876**      **The reservation has not been created. ll\_make\_reservation() returns *return\_code*.**

**Explanation:** An error occurred creating the reservation. The reservation was not made.

**User response:** The error code returned will identify the reason for failure. Refer to *TWS LoadLeveler: Using and Administering* for error code information and take the appropriate corrective action.

---

**2512-877**      **A base\_partition\_list was not specified. A base\_partition\_list is required with the -B option.**

**Explanation:** The specified command was issued without a `base_partition_list`.

**User response:** Reissue the command with a `base_partition_list`.

---

**2512-878**      **Encountered one or more errors while processing the list of base partition names.**

**Explanation:** The specified command encountered errors while processing the arguments of the `-B` option.

**User response:** Verify that the base partition names associated with the `-B` option are valid.

---

**2512-880**      **A list of job steps must be specified when binding to or unbinding from a reservation.**

**Explanation:** For a bind or unbind request, a list of job steps must be provided. A job on the list represents all steps in the job.

**User response:** Resubmit the bind request specifying the list of job steps that are to be bound or unbound.

---

**2512-881**      **The ID of an existing reservation must be provided when binding job steps to a reservation.**

**Explanation:** You must specify a reservation ID when requesting that job steps be bound to a reservation.

**User response:** Resubmit the bind request specifying the reservation ID that the job steps are to be bound to.

---

**2512-882**      **Bind request failed. The job steps are not bound to reservation *reservation\_ID*.**

**Explanation:** An error occurred processing the bind request.

**User response:** Resubmit the bind request specifying a valid reservation ID and a list of job steps that are in an idle-like state. A job on the list represents all steps in the job.

---

**2512-883**      **Unbind request failed. The job steps have not been unbound from their respective reservations.**

**Explanation:** An error occurred processing the unbind request.

**User response:** Resubmit the request to unbind job steps from the reservations that they are bound to by specifying valid job steps that are bound to or have requested to be bound to a reservation. A job on the list represents all steps in the job.

---

**2512-884**      **Do not specify reservation ID when unbinding job steps from reservations.**

**Explanation:** A reservation ID must not be specified when requesting that a job step (or job steps) be unbound from the reservations that they are bound to.

**User response:** Resubmit the unbind request without specifying a reservation ID.

---

---

| 2512-888     **A list of reservation IDs cannot be specified when `userlist`, `grouplist`, `hostlist`, or `basepartitionlist` is specified.**

| **Explanation:** When a reservation is canceled, either a list of reservation IDs can be specified for removal, or a combination of users, groups, hosts, and base partitions can be specified.

| **User response:** Resubmit the request to remove the reservation specifying either reservation IDs only, or a combination of users, groups, hosts, and base partitions. Hosts and base partitions are mutually exclusive.

---

| 2512-889     **A list of reservation IDs must be specified.**

| **Explanation:** When none of the users, groups, hosts, or base partitions are specified, a list of reservation IDs must be specified.

| **User response:** Resubmit the request specifying reservation IDs, users, groups, hosts, or base partition lists.

---

| 2512-890     **The `hostlist` and `basepartitionlist` are mutually exclusive and cannot be specified together.**

| **Explanation:** You cannot specify both a `hostlist` and a `basepartitionlist` on the same call. The `hostlist` and `basepartitionlist` are mutually exclusive.

| **User response:** Resubmit the request specifying either a `hostlist` or a `basepartitionlist`, but not both.

---

2512-892     **User `user_ID` is not authorized to change the owner of reservation `reservation_ID`. Only the LoadLeveler administrator can modify the owner of a reservation.**

**Explanation:** Only the LoadLeveler administrator can change the owner of a reservation.

**User response:** Contact the LoadLeveler administrator to process the requested change.

---

2512-893     **Modifying the duration of reservation `reservation_ID` by `minutes` minutes causes it to exceed the maximum duration allowed.**

**Explanation:** Changing the duration of the reservation by the number of minutes specified creates a duration greater than that allowed by the LoadLeveler configuration for either the user or the LoadLeveler group.

**User response:** Resubmit the request using a duration that does not exceed the maximum duration.

---

| 2512-894     **A `coschedule` job step is not allowed for node selection.**

| **Explanation:** Coscheduled job steps cannot be specified when selecting nodes for a reservation.

| **User response:** Resubmit the request using a job step that is not coscheduled.

---

2512-896     **Cannot modify Blue Gene requested partition for Step `step_name` because an empty partition name was specified.**

**Explanation:** An attempt was made to set the requested partition name to a blank string. The requested partition name cannot be set to blank because that would be interpreted as **not** requesting a partition by name and the step would be left with no request for a partition.

**User response:** Either reinvoke the command with a partition name that is not blank, or modify the step to request a partition by size or shape with the `bg_size` or `bg_shape` keywords of the `-k` option on the `llmodify` command.

---

2512-897     **Request to modify job step `job_step` is ignored. The job step is in a terminating state.**

**Explanation:** The job step is terminating. The modify request is ignored.

**User response:** Specify a step that is not being removed from the system.

---

---

**2512-898** Step *job\_step\_ID* can not be made non preemptable because it overlaps with a reservation.

**Explanation:** The end time of the specified job step extends beyond the start time of an existing reservation. The job step must be preemptable. The modify request is ignored.

**User response:** Specify a step that does not overlap a reservation.

---

**2512-899** Modify operation is not compatible with the job type of step *step\_name*.

**Explanation:** The requested modify operation is not allowed with the job type of the specified job step.

**User response:** Specify a step whose job type is allowed for the requested modify operation.

---

| **2512-900** Cannot modify Blue Gene rotate, Blue Gene connection, or Blue Gene requirements for job step  
| *job\_step\_name\_being\_modified* because a partition was specified.

| **Explanation:** The API was asked to change either the Blue Gene rotate, Blue Gene connection, or Blue Gene requirements, but a Blue Gene partition was already specified. The request is not processed.

| **User response:** Use the **llmodify** command to replace the Blue Gene partition with either a Blue Gene shape or a Blue Gene size, and then modify the Blue Gene rotate, Blue Gene connection, or Blue Gene requirements.

---

**2512-901** Unable to set gid for user.

**Explanation:** LoadLeveler could not set the user's gid before starting the user's job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-902** Unable to set process limits for user.

**Explanation:** LoadLeveler could not set Resource process limits before starting the user's job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-903** Unable to set *resource limit* limit for user.

**Explanation:** The specified process resource limit could not be set before starting the user's job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-904** Cannot run a job for root, uid=*uid*, gid=*gid*.

**Explanation:** LoadLeveler will not run any job with root privileges.

**User response:** Resubmit the job as a non-root user.

---

**2512-905** Cannot fork process for *task\_name*. **errno**=*error\_num* *error\_msg*.

**Explanation:** The **fork** system call failed for the specified process.

**User response:** Consult the specified error message for more information.

---

**2512-906** Cannot set user credentials.

**Explanation:** Credentials for the user cannot be set for the job step. This message is usually followed by a detailed message about the exact cause of the failure.

**User response:** Consult the specified error message for more information.

---

---

**2512-907 Uid cannot be verified on *hostname*.**

**Explanation:** The starter cannot verify that the **uid** of the user submitting the job is valid on the machine trying to run the job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** The user must have the same **uid** on the submitting machine as on the running machine.

---

**2512-908 Gid cannot be verified on *hostname*.**

**Explanation:** The starter cannot verify that the **gid** of the user submitting the job is valid on the machine trying to run the job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** The user must have the same **gid** on the submitting machine as on the running machine.

---

**2512-909 Cannot get user credentials.**

**Explanation:** Credentials for the user cannot be obtained. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-910 User credentials are not authorized.**

**Explanation:** Credentials for the user cannot be set for the job step. This message is usually followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-911 Cannot receive executable from Schedd.**

**Explanation:** A transaction from the **starter** on a run machine to the **schedd** on a submit machine has failed to retrieve the executable file.

**User response:** Examine **SchedLog** and **StarterLog** to determine the cause of the failure.

---

**2512-912 Cannot open *stdin*, *stdout*, or *stderr* file. *error\_msg*.**

**Explanation:** The **open** system call failed for one of the **stdio** files for the job step.

**User response:** Verify that the directory and file exist, and that the user has permission to access the directory.

---

**2512-913 Unable to validate privileges for *stdio*.**

**Explanation:** The **llcheckpriv** program cannot access a **stdio** file for the job step and will not return an error message.

**User response:** Examine the **StarterLog** for messages indicating the reason for the failure.

---

**2512-917 Cannot exec process for *task\_name*. *errno*=*error\_num* *error\_msg*.**

**Explanation:** The **execute** system call failed for the specified process.

**User response:** Consult the specified error message for more information.

---

**2512-918 Unable to set uid for user.**

**Explanation:** The **uid** for the user could not be set before starting the user's job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

---

**2512-919**      **Cannot receive job data from schedd on *hostname*.**

**Explanation:** An error occurred as the **starter** was requesting the job information from the **schedd** on the specified host.

**User response:** Examine the **SchedLog** and the **StarterLog** on the appropriate machines for the exact cause of the failure.

---

**2512-920**      **Cannot send READY status to the startd, the job step will be rejected.**

**Explanation:** An error occurred as the starter was attempting to send the **READY** status to the **startd**. Because a parallel job step will not continue until all nodes are **READY**, the job step will be rejected.

**User response:** Examine the **SchedLog** and the **StarterLog** for the exact cause of the failure.

---

**2512-922**      **The LoadL\_starter process terminated before the job step completed. The job step is vacated.**

**Explanation:** The **LoadL\_starter** process which started a job step has terminated abnormally while waiting for the job step to complete. Because the true status of the job step cannot be determined, the job step is vacated. The vacated job step will be rescheduled to run if it is marked restartable.

**User response:** Examine the appropriate machine's LoadLeveler logs to determine the cause of the **LoadL\_starter** failure.

---

**2512-934**      **Unable to set uid for user on *hostname*.**

**Explanation:** The **uid** for the user could not be set before starting the user's job step. This message will be followed by a detailed message about the exact cause of the failure.

**User response:** Consult the subsequent detailed error message for more information.

---

**2512-935**      **The switch table cannot be loaded on *host name* because the *adapter name* switch adapter is not configured on the node.**

**Explanation:** The job step requires that a switch table be loaded for the specified switch adapter, but the switch adapter has not been specified in the LoadLeveler configuration file. This error occurs if the entire LoadLeveler cluster is not reconfigured after adding or deleting switch adapters from the LoadLeveler administration file.

**User response:** Add the switch adapter to the LoadLeveler administration file, then use the **llctl -g reconfig** command to reconfigure the entire LoadLeveler cluster.

---

**2512-936**      **No switch tables were loaded on *machine\_name* for any adapters on this machine. There is a possible configuration problem.**

**Explanation:** The job step requires a switch table to be loaded for at least one switch adapter, but none of the switch tables are for an adapter on this machine. This error will occur if switch adapters have been added or deleted from the LoadLeveler administration file and only a subset of the LoadLeveler cluster was reconfigured.

**User response:** Add all of the appropriate switch adapters to the LoadLeveler administration file and reconfigure the entire LoadLeveler cluster using the **llctl -g reconfig** command.

---

**2512-937**      ***job step: Restricted Login Check - loginrestrictions returned rc=*loginrestrictions return code* and errno=*loginrestrictions errno* (AIX explanation for the errno) for users *user name* in registry *registry name* indicating login is not permitted. AIX supplemental information: returned AIX error message (if any)***

**Explanation:** The **loginrestrictions** service returned a status for the user indicating the user may not log into this machine where the job was to be run. The user's job is rejected. The configuration parameter **REJECT\_ON\_RESTRICTED\_LOGIN** controls the checking of the **loginrestrictions**.

**User response:** Check the underlying system security method and the nodes where the job was to run to determine why the user is locked out from login.

---

---

**2512-938**     **The LoadL\_starter process terminated before the job step completed. The job step is rejected.**

**Explanation:** The **LoadL\_starter** process that started a job step terminated abnormally while waiting for the job step to complete. Because the true status of the job step cannot be determined, the job step is rejected. The rejected job step will be rescheduled to run if it is marked restartable.

**User response:** Examine the appropriate machine's LoadLeveler logs to determine the cause of the **LoadL\_starter** failure.

---

**2512-939**     **The staged executable *executable\_name* already exists on *machine\_name* for the checkpointable job step *job\_step\_ID*.**

**Explanation:** This checkpointable job step has specified **ckpt\_execute\_dir** as the directory to stage the executable to, but an executable with the same name already exists in **ckpt\_execute\_dir**. The job step is rejected to avoid potential problems later in the job step's execution.

**User response:** You can either remove the existing executable, or change **ckpt\_execute\_dir** in the job command file, then resubmit the job.

---

| **2512-942**     **A communication error occurred while trying to connect to LoadL\_startd on *hostname*.**

| **Explanation:** **llspawn** could not connect to the startd on the remote node.

| **User response:** Verify that the **LoadL\_startd** daemon is running on the specified *hostname*.

---

| **2512-943**     **All tasks have already started on *hostname*.**

| **Explanation:** All tasks have already started for MPICH parallel jobs.

| **User response:** Examine the starter log for the exact cause of failure. Verify that the **llspawn** command is not being executed manually from the command line. Also verify that the hostlist file assigned to the runtime environment variable **LOADL\_HOSTFILE** is not modified manually.

---

| **2512-944**     **The step to start was not found on *hostname*.**

| **Explanation:** **llspawn** could not find the LoadLeveler job step to start on the remote node.

| **User response:** Examine the starter log for the exact cause of the failure. Verify that the **llspawn** command is not being executed manually from the command line. Also verify that the hostlist file assigned to the runtime environment variable **LOADL\_HOSTFILE** is not modified manually.

---

| **2512-945**     **The step running on *hostname* has already terminated.**

| **Explanation:** The MPICH job step has already terminated.

| **User response:** Examine the starter log for the exact cause of failure. Verify that the **llspawn** command is not being executed manually from the command line.

---

| **2512-946**     **Unable to create interface for virtual address *virtual\_address* on *machine\_name*.**

| **Explanation:** The virtual interface for the job could not be created using the **mdcr-ifcfg** command.

| **User response:** Resubmit the job. If the problem persists, contact IBM service.

---

**2512-990**     **Cannot modify Blue Gene partition shape for Step *step\_name* because *partition\_shape* is a malformed shape specification.**

**Explanation:** The API was asked to change the Blue Gene partition shape, but the specified shape could not be processed.

**User response:** Reissue the modify request with a valid shape specification.

---

---

**2512-991** Central Manger reported errors but specific data did not get transmitted.

**Explanation:** The API was expecting a list of error codes and step IDs, but the data members were empty.

**User response:** Reissue the modify request.

---

**2512-992** The job step *job\_step* was not in *job\_state* state. The *modify\_enum* was not modified.

**Explanation:** The step was not in the correct state for the requested modification.

**User response:** Change the modify request.

---

**2512-993** Request to modify job step *job\_step\_ID* is ignored, job step not found.

**Explanation:** The job step for the specified ID was not found. The modify request is ignored.

**User response:** Verify that a valid job step ID was specified and that the job step is in the system.

---

**2512-994** User *username* is not authorized to modify the job step *job\_step\_ID*.

**Explanation:** Only the owner of a job or an administrator can request to modify a job step.

**User response:** Verify that the user has permission to modify the job.

---

**2512-995** This version of `llmodify` does not support the `-x` option.

**Explanation:** This version of the command or the API does not support the `-x` option.

**User response:** Reissue the modify request without the `-x` option.

---

**2512-996** Overlapping step *step\_ID* with a reservation is not allowed. The *step\_attribute* was not modified.

**Explanation:** A step cannot be modified if it is already or would be overlapping with a reservation to which the step is not bound.

**User response:** If possible, remove the overlapping reservation and try again.

---

**2512-997** The *option* option is not available with the *scheduler* scheduler.

**Explanation:** The requested option is not supported with the current scheduler type.

**User response:** Reissue the modify request without the specified option.

---

**2512-998** Process tracking must be enabled in order to use the suspend method for preemption.

**Explanation:** The suspend method for preemption requires process tracking.

**User response:** Use a preempt method other than suspend or enable process tracking.

---

**2512-999** *keyword* is not a supported keyword for the `-k` option.

**Explanation:** The keyword specified with the `-k` option is not supported.

**User response:** Correct the keyword specified with the `-k` option and reinvoke the command. If the keyword is not supported by the `-k` option, use the option intended to change the desired attribute.

---

---

## 2539 Error messages

This topic includes TWS LoadLeveler library error messages.

---

**2539-001**     **Could not open input file (/dev/null) for pipe input.**

**Explanation:** The `open("/dev/null", O_RDONLY)` command failed.

**User response:** Contact the LoadLeveler administrator.

---

**2539-002**     *command was not executed.*

**Explanation:** `xloadl` failed to execute a system command.

**User response:** The reason for this error should be displayed immediately preceding this message.

---

**2539-003**     **Could not create stdout pipe from *command*, *errno* = *error\_num*.**

**Explanation:** The specified `pipe` command failed.

**User response:** Check the error number to determine why the command failed.

---

**2539-004**     **Could not create stderr pipe from *command*, *errno* = *error\_num*.**

**Explanation:** The specified `pipe` command failed.

**User response:** Check the `errno` to determine why the command failed.

---

**2539-005**     **Could not fork process for *command*, *errno* = *error\_num*.**

**Explanation:** LoadLeveler failed to fork the specified command.

**User response:** Check the `errno` to determine why the command failed.

---

**2539-006**     **Could not execute command *command*. *errno*=*error\_num*.**

**Explanation:** LoadLeveler failed to execute the specified command.

**User response:** Check the `errno` to determine why the command failed.

---

**2539-007**     **Not a valid selection. Field is not set.**

**Explanation:** The field was not updated because you entered a non-valid value.

**User response:** Reselect a value from the selection box. If you typed a value, then verify that the spelling matches a valid value.

---

**2539-008**     **Logging has already been started to file *filename*.**

**Explanation:** Logging cannot be started because commands are already being logged to the specified file.

**User response:** If you want commands logged to the specified file, you do not need to do anything. If you want to begin logging to another file: select **Stop Logging**, then select **Start Logging** with your new file specified.

---

**2539-009**     **No jobs are selected.**

**Explanation:** The tasks that you want to perform require that you select at least one job step.

**User response:** Select a job step, then invoke the command again.

---

---

**2539-010 Could not get details for selected jobs.**

**Explanation:** The information for the selected jobs was not returned.

**User response:** Consult the preceding error messages for possible causes. If there are no other messages, verify that the job step has completed.

---

**2539-011 Could not get Status for selected jobs.**

**Explanation:** The information for the selected jobs was not returned.

**User response:** Consult the preceding error messages for possible causes. If there are no other messages, verify that the job step has completed.

---

**2539-012 Could not get Report for selected jobs.**

**Explanation:** The information for the selected jobs was not returned.

**User response:** Consult the preceding error messages for possible causes. If there are no other messages, verify that the job step has completed.

---

**2539-013 No host specified. No selection performed.**

**Explanation:** Although one of the **by\_host** parameters for **job\_filter** has been indicated, there is no indication of which machines have been provided.

**User response:** The previous setting for filtering jobs will be used. Respecify the new filter by using **Select** on the menu bar.

---

**2539-014 The selection parameter was not changed.**

**Explanation:** No matches were found, so the jobs were not filtered. There may be a problem with the regular expression, or there may not be any machines which match the regular expression.

**User response:** If there is a problem with the regular expression, then a message explaining that will precede this one. You may need to adjust the regular expression.

---

**2539-015 No user specified. No selection performed.**

**Explanation:** Although one of the **by\_user** parameters for **job\_filter** has been indicated, there is no indication of which users have been provided.

**User response:** The previous setting for filtering jobs will be used. Respecify the new filter by using **Select** on the menu bar.

---

**2539-016 No group specified. No selection performed.**

**Explanation:** Although one of the **by\_group** parameters for **job\_filter** has been indicated, there is no indication of which groups have been provided.

**User response:** The previous setting for filtering jobs will be used. Respecify the new filter by using **Select** on the menu bar.

---

**2539-017 No job specified. No selection performed.**

**Explanation:** Although a **job\_filter** has been indicated, there is no indication of which job step identifiers have been provided.

**User response:** The previous setting for filtering jobs will be used. Respecify the new filter by using **Select** on the menu bar.

---

---

2539-018     **Internal error: *filter\_type* is not a valid filter.**

**Explanation:** A non-valid filter type has been selected.

**User response:** Exit and restart **xloadl**.

---

2539-019     **No user specified. Order user not performed.**

**Explanation:** A **Favor User** command cannot be issued with a blank user name.

**User response:** Type a user name in the text field of the prompt dialog box.

---

2539-020     **Only the LoadLeveler administrator may order users.**

**Explanation:** You must be a LoadLeveler administrator to order users.

**User response:** Have a LoadLeveler administrator issue this command.

---

2539-021     **Unknown pulldown number: *pulldown\_num*.**

**Explanation:** The item selected on the pulldown menu has translated into an unrecognized number.

**User response:** Exit and restart **xloadl**.

---

2539-022     **Could not get tasks for selected jobs.**

**Explanation:** The information for the selected jobs was not returned.

**User response:** Consult the preceding error messages for possible causes. If there are no other messages, verify that the job step has completed.

---

| 2539-023     **The Blue Gene Requirements line in *input\_file* is not valid. It is ignored.**

| **Explanation:** The Blue Gene requirements line specified in your file is not valid. The line is ignored and its information is not displayed in the Build a Job window.

| **User response:** Verify that the line includes only the following keyword: Memory.

---

| 2539-024     ***smt\_option* is not a valid smt option. It is ignored.**

| **Explanation:** Your file specifies an unrecognized option for the **smt** keyword.

| **User response:** Specify a valid option. The choices are: **yes** or **no**.

---

2539-025     **No machine is selected.**

**Explanation:** The task you want to perform requires that you select at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the command again.

---

2539-026     **No schedd machine specified. No purge performed.**

**Explanation:** The **Purge** command requires that you specify a **schedd** machine.

**User response:** Enter a machine name into the **Purge Machine** dialog box.

---

2539-027     **No machines selected. No machines will be purged.**

**Explanation:** The **Purge** command requires that you specify at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the **Purge** command again.

---

---

**2539-028**      **No host is selected for details.**

**Explanation:** The **Details** command requires that you specify at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the command again.

---

**2539-029**      **Could not get details for selected machines.**

**Explanation:** No details were returned for the selected machines.

**User response:** Consult the preceding error messages for reason details were not returned.

---

**2539-031**      **No host selected for Version.**

**Explanation:** The **Version** command requires that you specify at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the command again.

---

**2539-032**      **Could not get Version for selected machines.**

**Explanation:** No version information was returned for the selected machines.

**User response:** Consult the preceding error messages for reason details were not returned.

---

**2539-033**      **No host selected for Collecting data.**

**Explanation:** The **Capture Data** command requires that you specify at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the command again.

---

**2539-034**      **No Operating System specified. No selection performed.**

**Explanation:** To change the selection filter to **by OpSys**, you must specify an operating system. The value returned was **NULL**, so the filter was not changed.

**User response:** To reset the selection filter, use the **Select** pulldown menu in the **Machines** window.

---

**2539-035**      **No Architecture specified. No selection performed.**

**Explanation:** To change the selection filter to **by Arch**, you must specify an architecture. The value returned was **NULL**, so the filter was not changed.

**User response:** To reset the selection filter, use the **Select** pulldown menu in the **Machines** window.

---

**2539-036**      **No host selected for Capture.**

**Explanation:** The **Capture Data** command requires that you specify at least one machine.

**User response:** Select a machine from the **Machines** window, then invoke the command again.

---

**2539-038**      **Value of *resource\_name* is not valid, resetting from *resource\_value* to *default\_value*.**

**Explanation:** The value of the specified Resource is not valid, so a default value is being used.

**User response:** If the default value is not acceptable to you, then exit **xloadl**, change the value of the Resource in your **Xloadl** or **.Xdefaults** file, and reinvoke **xloadl**.

---

**2539-039**      **No ADMIN\_FILE specified in LoadL\_config. Cannot start LoadLeveler.**

**Explanation:** LoadLeveler cannot start without an administration file.

**User response:** Add an **ADMIN\_FILE** keyword and value to your configuration file. For example, "**ADMIN\_FILE = /u/loadl/LoadL\_admin**".

---

---

**2539-041 Can not get configuration information. xloadl cannot continue.**

**Explanation:** xloadl cannot start because it could not get configuration information.

**User response:** Verify that the LoadLeveler administration and configuration files are available and accessible.

---

**2539-042 A file name was not specified when using the Restore option for the Fair Share command.**

**Explanation:** A file name was not specified by the user.

**User response:** A file name is needed when using the **Restore** option for the Fair Share command.

---

**2539-043 Unable to malloc() num bytes of memory.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2539-044 Error returned on regular expression match.**

**Explanation:** LoadLeveler encountered an error while trying to match a regular expression that is being used as a **By User, By Machine, or By Group** job selection filter.

**User response:** Try setting the job selection filter again. You may need to modify the regular expression you enter.

---

| **2539-045 A schedd host was not selected in the Machines window when trying to run the Move Spool**  
| **command.**

| **Explanation:** You did not select a schedd host.

| **User response:** A schedd host was not selected in the Machines window. The Move Spool command will not run.

---

**2539-046 Error receiving job data.**

**Explanation:** A request for job information has been unsuccessful. Any data that was returned may be incomplete.

**User response:** Reissuing the command, or refreshing the **Jobs** window, may resolve the problem. If the problem persists, then try exiting and reinvoking **xloadl**.

---

**2539-047 Cannot read machine information from central manager.**

**Explanation:** An error occurred while the central manager was sending machine information to **xloadl**.

**User response:** Redo the action.

---

**2539-048 Could not send command to cm host.**

**Explanation:** xloadl can connect to the central manager, but cannot send the central manager a command.

**User response:** Consult the preceding error message for the reason for the failure.

---

**2539-049 Could not connect to daemon\_name on hostname. Will reconfig xloadl and retry.**

**Explanation:** On the first failure to contact a daemon, **xloadl** will reconfig itself and try to contact the daemon again. The cluster may have been reconfigured since **xloadl** was invoked.

**User response:** No action is needed.

---

---

**2539-050**      **Could not connect to *daemon\_name* on *hostname*. Will retry later.**

**Explanation:** The **Machines** window was not updated because the specified daemon was not contacted. Another attempt will be made after the automatic refresh interval.

**User response:** No action is needed.

---

**2539-051**      **Access to this job is denied.**

**Explanation:** You cannot issue commands for this job.

**User response:** Do not try to issue commands for this job.

---

**2539-052**      **You do not own Job *job\_id step\_id*. Access to this job denied.**

**Explanation:** You cannot issue commands for a job step that you do not own.

**User response:** Contact the job owner or an administrator.

---

**2539-053**      **Job *job\_id step\_id* in System Hold. Access to this job denied.**

**Explanation:** You cannot access this job because a system hold has been put on it.

**User response:** Contact the LoadLeveler administrator.

---

**2539-054**      **Only the LoadLeveler administrator may order jobs.**

**Explanation:** Only LoadLeveler administrators have the authority to order jobs using the **Favor Job** command.

**User response:** Contact the LoadLeveler administrator.

---

**2539-055**      **Unrecognized ORDER type *order\_type*. No action taken.**

**Explanation:** The order type is not valid for **Favor Jobs** or **Favor Users**.

**User response:** Reissue the command; if the same message occurs, then exit from **xloadl** and restart it.

---

| **2539-056**      **Multiple schedd hosts cannot be selected in the Machines window when trying to run the Move**  
| **Spool command.**

| **Explanation:** You selected more than one schedd host.

| **User response:** More than one schedd host is selected in the Machines window. Select only one and rerun the Move  
| Spool command.

---

**2539-057**      **Only the LoadLeveler administrator may order users.**

**Explanation:** You do not have the authority to issue this command.

**User response:** Only a LoadLeveler administrator can issue this command.

---

**2539-058**      **Error receiving machine data.**

**Explanation:** A request for machine information has been unsuccessful. Any data that was returned may be incomplete.

**User response:** Reissuing the command, or refreshing the **Machines** window, may resolve the problem. If the problem persists, then try exiting and reinvoking **xloadl**.

---

---

**2539-059** Only the LoadLeveler administrator may issue LoadLeveler control commands.

**Explanation:** You do not have the authority to do this action.

**User response:** Only a LoadLeveler administrator has the authority to do this.

---

**2539-060** Can not find name of executable for LoadL\_master in config file.

**Explanation:** LoadLeveler did not find the name of the executable for **LoadL\_master** in the configuration file.

**User response:** Update the keyword **MASTER** in the configuration file (for example, **MASTER = \$(BIN)/LoadL\_master**), then reconfigure or restart LoadLeveler.

---

| **2539-061** *coschedule\_option* is not a valid coschedule option. It is ignored.

| **Explanation:** Your file specifies an unrecognized option for the **coschedule** keyword.

| **User response:** Specify a valid option. The choices are: **true** or **false**.

---

**2539-062** No machines selected. No machines purged.

**Explanation:** At least one machine must be selected for a purge to occur.

**User response:** Select at least one machine, then rerun the command.

---

**2539-063** Could not get class information for *machine name*.

**Explanation:** Due to internal errors, no classes were returned for the specified machine.

**User response:** Reissuing the command, or refreshing the **Machines** window, may resolve the problem. If the problem persists, then try exiting and reinvoking **xloadl**.

---

**2539-064** Cannot obtain this host name. Job not submitted.

**Explanation:** The official hostname for this machine is not set.

**User response:** Ensure the host name for this machine is set.

---

**2539-067** User priority, *input*, is not valid. It is ignored.

**Explanation:** The value you typed in the text field for user priority is not valid.

**User response:** Type a value between 0 and 100 into the user priority field.

---

**2539-068** Previously set user priority value, *user\_priority*, is used.

**Explanation:** The replacement user priority value is not valid, so the previously set value is used.

**User response:** If you want to change the value, then type a value between 0 and 100 into the user priority field.

---

**2539-069** The maximum value for user priority, 100, is used instead of *input\_value*.

**Explanation:** The value you typed is greater than 100 (the maximum value for user priority), so the user priority has defaulted to 100.

**User response:** If you want the user priority to be a value other than 100, then type a value between 0 and 100 into the user priority field.

---

**2539-070** *min\_processors* value of *num* is not valid. It is ignored.

**Explanation:** The value specified for **min\_processors** is not valid. The value has defaulted to 1.

**User response:** Enter a nonnegative number in the **Min # of Nodes** field.

---

---

2539-071     **max\_processors value of *num* is not valid. It is ignored.**

**Explanation:** The value specified for **max\_processors** is not valid. The value has defaulted to 1.

**User response:** Enter a nonnegative number in the **Max # of Nodes** field.

---

2539-072     **Unrecognized job primary sort request: *sort\_type*.**

**Explanation:** The specified value is not recognized as a sort type.

**User response:** Stop and restart **xloadl**.

---

2539-073     **Unrecognized job secondary sort request: *sort\_type*.**

**Explanation:** The specified value is not recognized as a sort type.

**User response:** Stop and restart **xloadl**.

---

2539-074     **Unrecognized machine primary sort request: *sort\_type*.**

**Explanation:** The specified value is not recognized as a sort type.

**User response:** Stop and restart **xloadl**.

---

2539-075     **Unrecognized machine secondary sort request: *sort\_type*.**

**Explanation:** The specified value is not recognized as a sort type.

**User response:** Stop and restart **xloadl**.

---

2539-076     **Central manager is defined on *machine\_name*. Cannot connect to LoadLeveler Central Manager.**

**Explanation:** The central manager is defined on the specified machine, but **xloadl** cannot connect to it.

**User response:** Verify that the central manager is active.

---

2539-077     **Cannot find a central manager.**

**Explanation:** **xloadl** did not locate any central manager.

**User response:** Exit and restart **xloadl**, then rerun the command. If no central manager is found when running the command, then contact your LoadLeveler administrator.

---

2539-078     **Entire Script may not have been saved.**

**Explanation:** The number of bytes that were saved is less than the number of bytes in the file.

**User response:** Verify that there is enough space, then try to save the script again.

---

2539-079     **Unable to save Script. Error in creating tempfile.**

**Explanation:** The script could not be saved to a temporary file.

**User response:** Verify that there is adequate space and permission to save a file to **/tmp**.

---

2539-080     **You are not a LoadLeveler Administrator. You cannot access Job *machine\_name job\_id step\_id*.**

**Explanation:** You need to be a LoadLeveler administrator to perform this task.

**User response:** You cannot perform this task.

---

---

2539-081     **You do not have the needed admin privileges and you do not own this job. You cannot access Job *machine\_name job\_id step\_id*.**

**Explanation:** To perform this task you need to own the job or have sufficient privileges.

**User response:** You cannot perform this task.

---

2539-082     **You do not have the needed admin privileges. You cannot access Job *machine\_name job\_id step\_id* .**

**Explanation:** To perform this task, you need to have sufficient LoadLeveler, group or class administrative privileges.

**User response:** You cannot perform this task.

---

2539-083     **No valid jobs selected. Command not sent.**

**Explanation:** The command was not executed because there were no valid jobs selected for it.

**User response:** Select at least one job, then reissue the command. You may want to refresh the **Jobs** window before doing so to ensure that the status presented in the window is more up to date.

---

2539-084     **The length of the regular expression must be less than 1024 bytes.**

**Explanation:** Regular expressions entered in `xloadl` must be less than 1024 bytes long.

**User response:** Enter a shorter regular expression.

---

2539-085     **Problem with regular expression, *regular\_expression* : *error\_msg*.**

**Explanation:** *error\_msg* describes a problem with the *regular expression*.

**User response:** Use the message in *error\_msg* to determine the cause of the error and correct it.

---

2539-086     **Problem with regular expression, *regex.h error no.* = *error\_code*.**

**Explanation:** The specified error code describes a problem with the regular expression.

**Explanation:** Consult `/usr/include/regex.h` for the error codes and their meanings.

---

2539-087     **Problem with regular expression: [*error message*].**

**Explanation:** The specified error message describes a problem with the regular expression.

**User response:** Use the specified message to determine the cause of the error.

---

2539-088     **Both Tasks Per Node and Total Tasks are set. Total tasks is ignored.**

**Explanation:** You cannot have both **Tasks Per Node** and **Total Tasks** on a job step in your job command file. Both were set in the Build a Job window, so **Total Tasks** is ignored when the job command file is created.

**User response:** Unset either **Total Tasks** or **Tasks Per Node**.

---

2539-089     **Min # of Nodes must be less than Max # of Nodes.**

**Explanation:** The value you have specified in the **Nodes** window is greater than that specified for **Max # of Nodes**.

**User response:** Modify one of the values.

---

2539-090     **A range of nodes is not valid when Total Tasks is specified.**

**Explanation:** You have entered values for the **Min # of Nodes** and **Max # of Nodes**, as well as **Total Tasks**, in the **Nodes** window. A range of nodes is not valid when **Total Tasks** are specified.

**User response:** Either modify the values so that the **Max # of Nodes** and **Min # of Nodes** are the same, or unset the values so that the conflict no longer exists.

---

---

**2539-091**     **Minimum number of nodes, *field value*, is not valid. It is ignored.**

**Explanation:** The value in the **Min # of Nodes** text field is not valid.

**User response:** Change the value to an integer that is greater than zero.

---

**2539-092**     **Maximum number of nodes, *field value*, is not valid. It is ignored.**

**Explanation:** The value in the **Max # of Nodes** text field is not valid.

**User response:** Change the value to an integer that is greater than the **Min # of Nodes**.

---

**2539-093**     **Tasks Per Node, *field value*, is not valid. It is ignored.**

**Explanation:** The value in the **Tasks per Node** text field is not valid.

**User response:** Change the value to an integer that is greater than zero.

---

**2539-094**     **Total Tasks, *field value*, is not valid. It is ignored.**

**Explanation:** The value in the **Total Tasks** text field is not valid.

**User response:** Change the value to an integer that is greater than zero.

---

**2539-095**     **Minimum number of processors, *field value*, is not valid. It is ignored.**

**Explanation:** The value in the **Min # of Processors** text field is not valid.

**User response:** Change the value to an integer that is greater than zero.

---

**2539-096**     **Maximum number of processors, *field value*, is not valid. It is ignored.**

**Explanation:** The value for the **Max # of Processors** text field is not valid.

**User response:** Change the value to an integer that is greater than the **Min # of Processors**.

---

**2539-097**     **Node Usage, *field value*, is not valid. It is ignored.**

**Explanation:** The value for the **Node Usage** text field is not valid.

**User response:** Change the value in the **Node Usage** text field to either **shared**, or **not\_shared**.

---

**2539-098**     **The number of nodes (*number of nodes*) exceeds the number of tasks (*number of tasks*).**

**Explanation:** The requested number of nodes cannot be greater than the requested total tasks.

**User response:** Correct the job command file, then resubmit the job.

---

**2539-099**     **Hold, *value for Hold field*, is not valid. It is ignored.**

**Explanation:** The specified value is not valid.

**User response:** Change the value to one of the following: **user**, **system**, or **usersys**.

---

**2539-100**     **Could not get adapter information for selected machines.**

**Explanation:** No details were returned for the selected machines.

**User response:** Consult the preceding messages to find out why adapter information was not returned.

---

---

**2539-101**     **Open failed for file *filename*, errno = *error\_number*.**

**Explanation:** The open system call failed for the specified file.

**User response:** Verify that the directory exists, and that you have permission to access it and create a file.

---

**2539-102**     **Unable to write to file *filename*.**

**Explanation:** Could not write a line into the specified file.

**User response:** Verify that the directory and file exist, and that you have permission to access them.

---

**2539-103**     **The length of the ckpt file full path name exceeds 255 characters: *ckpt\_file\_full\_path\_name*.**

**Explanation:** The full path name for the ckpt file developed from **Ckpt File**, **Ckpt Dir**, and when needed the **ckpt\_dir** of the class and current working directory, is longer than the 255 characters which can be handled by AIX.

**User response:** Change the **Ckpt File** and **Ckpt Dir** to ensure the length of your file name is less than 255 characters.

---

**2539-104**     **Cannot start Checkpoint Monitor for *job\_step\_name* because java was not found.**

**Explanation:** No Java™ executable was found.

**User response:** Ensure Java is located in the standard directory or that your \$PATH environment variable points to it.

---

**2539-106**     **Large Page, *value*, is not valid. It is ignored.**

**Explanation:** The specified value is not valid.

**User response:** Change the value to one of the following: "N" for no, do not use Large Page memory, "Y" for use Large Page memory if available; otherwise use regular memory, and "M" for mandatory use of Large Page memory.

---

**2539-108**     **Instances, *value*, is not valid. It is ignored.**

**Explanation:** The value you typed in the text field for instances is not valid.

**User response:** Type a positive integer or the string "max" in the instances field.

---

**2539-109**     ***name* is not a configured job command file keyword name. Verify the job command file keyword statement before submitting the job.**

**Explanation:** Your file includes a *name* for the specified *job command file keyword* that is not known to LoadLeveler. The *name* is not defined in the current configuration and is not recognized.

**User response:** Verify that the specified *name* for the *job command file keyword* is defined. The names are defined in the stanza labels in the **LoadL\_admin** file.

---

**2539-110**     **rCxt Blocks, *rCxt\_text*, is not valid. It is ignored.**

**Explanation:** The value you typed in the text field for rCxt blocks is not valid.

**User response:** Type a positive integer that is greater than zero in the rCxt blocks field.

---

**2539-111**     **Cannot set rCxt Blocks with a communication mode of IP. It is ignored.**

**Explanation:** A value for rCxt Blocks was specified in a network statement, which did not specify a mode of user space. rCxt Blocks is valid only on network statements that request user space.

**User response:** Update the network information in the Network window of the Job Builder, as needed.

---

---

2539-112 *cluster\_name* is not a valid cluster name.

**Explanation:** The name of the cluster you entered is not in the configured clusters list.

**User response:** Either restart `xloadl` with a configured cluster name, or add this cluster into the configured clusters list.

---

2539-113 *bg\_connection\_option* is not a valid `bg_connection` option. It is ignored.

**Explanation:** The job command file specifies an unrecognized option for the `bg_connection` keyword.

**User response:** Specify a valid option to indicate the kinds of partitions that can be selected for this job in the Blue Gene system. The choices are `torus`, `mesh`, and `prefer_torus`.

---

2539-114 *bg\_rotate\_option* is not a valid `bg_rotate` option. It is ignored.

**Explanation:** The job command file specifies an unrecognized option for the `bg_rotate` keyword.

**User response:** Specify a valid option to indicate whether all possible rotations of the requested shape should be considered when attempting to schedule the job. The choices are `true` and `false`.

---

2539-116 Cannot get information about the Blue Gene system.

**Explanation:** No details were returned for the Blue Gene system.

**User response:** Consult the preceding messages to find out why no Blue Gene information was returned.

---

2539-117 The Blue Gene Shape, *text\_in\_Shape\_field*, is not valid.

**Explanation:** The value you typed into the text field for Shape is not valid. The value must be in the form `XxYxZ`, where X, Y, and Z are integers representing the number of base partitions in a specific dimension. None of the values can be zero.

**User response:** Correct the value typed into the Shape field.

---

2539-118 The Blue Gene Size, *text\_in\_Size\_field*, is not valid.

**Explanation:** The value you typed into the text field for Size (# of compute nodes) is not valid. The value must be a positive integer representing the number of compute nodes for the Blue Gene job. The value cannot be zero.

**User response:** Correct the value typed into the Size field.

---

2539-119 Cannot get the Fair Share information.

**Explanation:** No historic data was returned for fair share scheduling.

**User response:** No historic data was returned from the `llfs` command. Consult the preceding messages to find out why no fair share information was returned.

---

2539-120 Could not get classes for *task name*.

**Explanation:** The classes that apply to the task you are trying to perform were not returned due to internal errors.

**User response:** Consult the preceding messages for the reason.

---

2539-121 The resource requirement *resource* must have a value greater than or equal to zero.

**Explanation:** The value for the specified resource in your input file must be a positive integer that is greater than or equal to zero.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

---

**2539-122**     **The value entered does not match an existing reservation ID.**

**Explanation:** The action requires an existing reservation identifier. A value was entered that is not an existing reservation identifier.

**User response:** Select a reservation identifier from the selection box.

---

**2539-123**     **Unable to create a temporary file.**

**Explanation:** The **mkstemp** library function cannot create a temporary file in the **/tmp** directory. A temporary file is required to prepare a job command file for viewing.

**User response:** Verify that:

- The permissions in the **/tmp** directory allow files to be created
  - There is sufficient space available in **/tmp** to create a file
  - There is not already a file with the same name in **/tmp**
- 

**2539-124**     **Error receiving reservation data.**

**Explanation:** A query request for reservation information has been unsuccessful. Any data that was returned may be incomplete.

**User response:** Reissuing the command may resolve the problem. If the problem persists, try exiting and reinvoking **xloadl**.

---

**2539-125**     *bulkxfer\_option* **is not a valid Bulk Transfer option. It is ignored.**

**Explanation:** The file specifies an unrecognized option for the **bulkxfer** keyword.

**User response:** Specify a valid option. The choices are: **yes** and **no**.

---

**2539-126**     *copy\_environment\_option* **is not a valid Copy Environment option. It is ignored.**

**Explanation:** The file specifies an unrecognized option for the **copy\_environment** keyword.

**User response:** Specify a valid option. The choices are: **all** and **master**.

---

**2539-127**     **Cannot get requested cluster information.**

**Explanation:** A query for the status of machines on one or more remote clusters did not return status information.

**User response:** Contact your LoadLeveler administrator.

---

**2539-128**     **Full path names for both local and remote files must be specified for each Cluster input file or Cluster output file pair.**

**Explanation:** One or more of the full path names is missing.

**User response:** Add the missing full path name.

---

**2539-129**     **A directory path was not specified when using the Save option for the Fair Share command.**

**Explanation:** A directory path was not specified by the user.

**User response:** A directory path is needed when using the **Save** option for the Fair Share command.

---

**2539-130**     **Adapter preference is not supported. It is ignored.**

**Explanation:** Your input contains a **preferences** line which has an unsupported **Adapter** preference in it, so the **preferences** line will be ignored.

**User response:** Remove the **Adapter** preference from the input.

---

---

2539-131     **Cannot open file *filename* errno=error num. Using built-in defaults.**

**Explanation:** The **open** system call failed for the specified file. Defaults will be used in the **Build a Job** window, instead of information from your file.

**User response:** Verify that the directory and file exist, and that the user has permission to access the directory.

---

2539-132     ***notification option* is not a valid notification option. It is ignored.**

**Explanation:** Your file specifies an unrecognized option for the notification keyword.

**User response:** Specify a valid option. The choices are: **always**, **error**, **start**, **never**, and **complete**.

---

2539-133     ***checkpoint option* is not a valid checkpoint option. It is ignored.**

**Explanation:** Your file specifies an unrecognized option for the **checkpoint** keyword.

**User response:** Specify a valid option. The choices are: **user\_initiated**, **system\_initiated**, and **no**.

---

2539-134     ***restart option* is not a valid Restart option. It is ignored.**

**Explanation:** Your file specifies an unrecognized option for the **restart** keyword.

**User response:** Specify a valid option. The choices are: **yes** and **no**.

---

2539-135     **Requirements line in *input file* is not valid. It is ignored.**

**Explanation:** The **requirements** line specified in your file is not valid. The line is ignored, and its information is not displayed in the **Build a Job** window.

**User response:** Verify that the line includes only the following keywords: **Memory**, **Feature**, **Machine**, **Disk**, **Arch**, **OpSys**, **Adapter**, **Pool**. The line must be in the form of a Boolean expression.

---

2539-136     **Adapter can only occur once in a valid Requirements line. The Requirements line is ignored.**

**Explanation:** A **requirements** line is not valid if it specifies more than one adapter.

**User response:** Either rewrite the line so that it specifies only one adapter, or remove the **Adapter** preference from the **requirements** line, and use the **network** specification instead.

---

2539-137     **The "Preferences" line in *input file* is ignored because Adapter Preferences are not valid.**

**Explanation:** The **preferences** line specified in your file is not valid. The line is ignored, and its information is not displayed in the **Build a Job** window.

**User response:** Remove **Adapter** from the **preferences** line.

---

2539-138     **Preferences line in *input file* is not valid. It is ignored.**

**Explanation:** The **preferences** line specified in your file is not valid. The line is ignored, and its information is not displayed in the **Build a Job** window.

**User response:** Verify that the line includes only the following keywords: **Memory**, **Feature**, **Machine**, **Disk**, **Arch**, **OpSys**, **Pool**. The line must be in the form of a Boolean expression.

---

2539-139     ***option* is not a valid job type option. It is ignored.**

**Explanation:** Your file specifies an unrecognized option for the **job\_type** keyword.

| **User response:** Specify a valid option. The choices are: **bluegene**, **MPICH**, **parallel**, or **serial**.

---

---

**2539-140**     **Problem setting network *network* protocol from input file name. It is ignored.**

**Explanation:** There was a problem transforming the network information in your file into the **Build a Job** window.

**User response:** Set the information in the **Network** window (for **mpi** or **lapi**).

---

**2539-141**     ***network type* is not a configured adapter name or valid network type. The network keyword is ignored.**

**Explanation:** Your file specifies an adapter name or network type that is not valid.

**User response:** Verify that you have specified a valid adapter name or network type from the **Adapter** stanzas in the LoadLeveler administration file.

---

**2539-142**     ***adapter\_info* is not a valid adapter usage, mode, level, or instance. It is ignored.**

**Explanation:** Your file specifies an adapter usage, mode, communication level, or instances in a **network** statement that is not valid.

**User response:** Verify that you have specified a valid value. The choices for usage are: **shared** and **not shared**. The values for mode are: **IP** and **US**. The values for level are: **Low**, **Medium**, and **High**. The values for instances are positive integers.

---

**2539-143**     **The *adapter usage* or *node* keyword in filename is not supported by the job builder.**

**Explanation:** Your file specifies an unrecognized keyword; the keyword is ignored by the job builder.

**User response:** Specify a valid value.

---

**2539-144**     **Cannot read the default file, *xloadl default file*.**

**Explanation:** Cannot open the specified file.

**User response:** Check for various conditions: the file might not exist, the permissions might prohibit opening it, no file descriptors may be available, and so on. To change the defaults file, modify the **Xloadl** resource "**skelfile**".

---

**2539-145**     **Could not get details for selected class.**

**Explanation:** The information for the selected jobs was not returned.

**User response:** Consult the preceding error messages for possible causes. If there are not any other messages, either attempt to run the command again, or run the **llclass -l** classname from the command line.

---

**2539-146**     **No Class Choices are available.**

**Explanation:** No classes were returned for display in the **Class Choices** selection box.

**User response:** This message appears if no Classes are configured in the LoadLeveler administration file. Preceding error messages may indicate if a problem has occurred obtaining the data.

---

**2539-147**     **Cannot View this job.**

**Explanation:** No job command file information was returned for display by the Job Builder.

**User response:** A file is created in the **/tmp** directory with a random name to hold this information. Check to see that the permissions in the **/tmp** directory allow this file to be read. If this file is empty, you will see this message.

---

**2539-148**     **No input to append from script file *script file name*.**

**Explanation:** No lines for appending were obtained from the script file you specified for "Append Script".

**User response:** Preceding messages may give an indication of why the input was not available (problem opening or reading the file). If file is empty, you will see this message.

---

---

**2539-149**     **You must select or enter a value for the Adapter/Network Selection Box.**

**Explanation:** A network toggle has been turned on, but no Adapter/Network type, which is required, has been selected or entered in the Adapter/Network Selection Box.

**User response:** Either turn off the network toggle, or select or enter a type from the Adapter/Network Selection Box.

---

**2539-150**     **The Adapter *adapter name or network type* in the Requirements line is ignored because there is already a network keyword in the job cmd file.**

**Explanation:** A **network** statement has already been restored into the **Build a Job** window. Because only one **network** keyword can be supported per step in a job command file, the **Adapter** statement will be ignored.

**User response:** Do one of the following: 1) update your job command file so that it contains either a **network** keyword, or an **Adapter** requirement; or 2) verify that the **Network** window in the job builder reflects the adapter you wish to use.

---

**2539-151**     **The Adapter *adapter name or network type* in the Requirements line is ignored because it is not recognized.**

**Explanation:** The **Adapter** name referred to in the **requirements** line is not recognized. It must be an **Adapter** name or **network** type from an **Adapter** stanza in the administration file.

**User response:** Set the **Adapter** using the **Network** window in the job builder.

---

**2539-152**     **The Adapter *adapter name or network type* in the Requirements line is ignored because it is not configured.**

**Explanation:** The **Adapter** type referred to in the **requirements** line is not valid. It must be an **Adapter** name, or **network** type, from an **adapter** stanza in the administration file.

**User response:** Set **Adapter/Network** in the **Network** window in the job builder.

---

**2539-153**     **The Requirements line is ignored because there is already a network keyword in the input file.**

**Explanation:** A **network** keyword has already been restored into the **Build a Job** window. Because only one requirements statement is supported in a job command file, the **Adapter** preference cannot be converted into a **network** keyword.

**User response:** Either update your job command file so that it contains only one **network** keyword or **Adapter** requirement, or verify that the **Network** window in the job builder reflects the adapter you wish to use, then update the **Requirements** window as needed.

---

**2539-154**     **Cannot set both Adapter Requirement and Network.**

**Explanation:** There is already an **Adapter** preference on the **Requirements** line. Because only one or the other (**Adapter** requirement or **Network** keyword) is supported per step in any job command file, entering adapter information into the **Network** window is prevented. This message will only appear once.

**User response:** If you wish to enter adapter information, then use the **Network** window.

---

**2539-155**     **The *keyword* keyword from your input file is not supported by the *scheduler type* scheduler. It is ignored.**

**Explanation:** The specified keyword from your job command file is not supported by the scheduler which is currently running. The keyword is ignored, and will not appear in the **Build a Job** window.

**User response:** None.

---

---

**2539-158**     **The network statement in your input file is ignored because an Adapter Requirement was converted to a network statement.**

**Explanation:** While filling the **Build a Job** window fields from your input file, an **Adapter** keyword on the **Requirements** line was converted to a **network** keyword. Because only one of these two options (**Adapter** requirement/**network** statement) is supported per step in any job command file, the **network** statement is ignored.

**User response:** Adjust the settings in the **Network** window, as needed.

---

**2539-159**     **This input file line contains non-ASCII characters, *line*. It will be ignored.**

**Explanation:** While filling Job Builder fields from your input file, non-ASCII characters have been encountered. Since only ASCII text is supported, this input line is ignored.

**User response:** Adjust Job Builder fields as needed. Use files for input to the Job Builder that contain only ASCII characters.

---

**2539-160**     **The value for LL\_Version is not valid because it must be quoted in the input file. It is ignored.**

**Explanation:** While filling Job Builder fields from your input file, a value for LL\_Version that is not valid was found. Values for LL\_Version in the job command file must be enclosed in double quotes to be valid. The LL\_Version value is ignored, and will not appear in the Job Builder.

**User response:** Update the LL\_Version information in the Requirements or Preferences window of the Job Builder by entering the value without double quotes (double quotes are not used in the Job Builder), or add the double quotes to the input file to correct the LL\_Version and reissue the Restore from file command.

---

**2539-161**     **Could not get consumable floating resources.**

**Explanation:** No floating resources were returned.

**User response:** Consult additional messages for the reason floating resources were not returned.

---

**2539-162**     **Could not get consumable machine resources.**

**Explanation:** No machine resources were returned.

**User response:** Consult additional messages for the reason machine resources were not returned.

---

**2539-163**     **A task ID is needed for Node *node number*.**

**Explanation:** You have not indicated a task ID for the specified node. Each node must have at least one task ID assigned to it.

**User response:** Type a task ID into the input field for the specified node.

---

**2539-164**     **Task ID *task ID number* on Node *node number* is a duplicate.**

**Explanation:** The task ID specified for this node is already being used on another node. Each task ID must be assigned to one, and only one, node.

**User response:** Verify that each task ID appears only once in the **Custom Geometry** window.

---

**2539-165**     **These task IDs are missing from the specified range: *list of task ID numbers*.**

**Explanation:** The listed task IDs fall within the range of task IDs that you specified in the **Task Geometry** window, but they have not been assigned to nodes.

**User response:** You must assign the complete range (from 0 to n - 1, where n is the total number of tasks for your parallel job) of task IDs to nodes. For example, if you have entered task ID 6 into a Node field, then task IDs 0-5 must be assigned to nodes, as well.

---

---

**2539-166** For Task Geometry, task ID(s) have to be specified.

**Explanation:** There are no task IDs specified for a node in the **Task Geometry** field. Task IDs must be unsigned integers specified within a single set of parentheses. Additional task IDs should be included within the same parentheses, but must be separated from each other by commas.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-167** For Task Geometry, the expression must start with a "{".

**Explanation:** The **Task Geometry** statement must start with a "{" (open brace), and end with a}" (closed brace).

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-168** For Task Geometry, the expression must end with a"}".

**Explanation:** The **Task Geometry** statement must start with a "{" (open brace), and end with a}" (closed brace).

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-169** For Task Geometry, extra character(s) are found after"}".

**Explanation:** The entire task-geometry statement must be enclosed within the "{" (open brace) and}" (closed brace).

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-170** For Task Geometry, left parenthesis cannot be nested.

**Explanation:** The list of task IDs assigned to a node in the **Task Geometry** field must begin with a single open parenthesis. Nested parentheses are not allowed.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-171** For Task Geometry, expected "(", but another character is encountered.

**Explanation:** The list of task IDs assigned to a node must begin with the open parenthesis; the current list of task IDs begins with another character.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-172** For Task Geometry, "(" is encountered without a corresponding)".

**Explanation:** All of the task IDs for a node in a task-geometry statement must be enclosed between parentheses.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-173** For Task Geometry, task ID(s) have to be specified within parentheses.

**Explanation:** Task IDs must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

**2539-174** For Task Geometry, the specification of task ID(s) within the parentheses is not valid.

**Explanation:** Task IDs must be unsigned integers, and must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

---

2539-175     **For Task Geometry, a task ID has to be an unsigned integer.**

**Explanation:** Task IDs must be unsigned integers, and must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

2539-176     **For Task Geometry, the range of task IDs (0 - largest task ID) is not complete.**

**Explanation:** Task IDs must comprise a complete range of consecutive unsigned integers. The range must start with zero and end with a value that is one less than the total number of tasks in the parallel job.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

2539-177     **For Task Geometry, duplicate task IDs are specified.**

**Explanation:** No task IDs can be specified more than once in the **Task Geometry** field.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

2539-178     **For Task Geometry, a non-blank character is found between ")" and "}".**

**Explanation:** There should not be any characters between the closed parenthesis after the last of the task IDs assigned to a node and the curly brace that ends the task-geometry statement.

**User response:** Correct the syntax error in the **Task Geometry** field.

---

2539-179     **Task\_geometry, text in the task\_geometry expression, is not valid. It is ignored.**

**Explanation:** Task IDs must comprise a complete range of consecutive unsigned integers. The range must start with zero and end with a value that is one less than the total number of tasks in the parallel job. Task IDs must be specified within a set of parentheses; additional task IDs for a node must be included within the same parentheses and must be separated from each other by commas.

**User response:** Type a valid value for `task_geometry` in the **Task Geometry** field.

---

2539-180     **Blocking, expression, is not valid. It is ignored.**

**Explanation:** You have specified a value for **Blocking** which is not valid. The acceptable values are either a positive integer, or "unlimited."

**User response:** Either enter a valid value in the **Blocking** field in the **Nodes** window, or correct the job command file; then reissue the **Restore From File** command from the **Tools** menu choice.

---

2539-181     **The value for blocking *blocking* exceeds the number of tasks *tasks*.**

**Explanation:** The specified blocking factor is greater than the total number of tasks that have been requested.

**User response:** Correct the values in the **Build a Job** window before you submit or save the job.

---

2539-182     **When *keyword* is specified, *keyword* must also be specified.**

**Explanation:** When the first keyword is specified, the second keyword must also be specified.

**User response:** Correct the values in the **Build a Job** window.

---

2539-183     **The resources statement is not valid. It is ignored.**

**Explanation:** The value specified for resources in your input file is not valid.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

---

**2539-184**     **The resource requirement *resource* does not have a value.**

**Explanation:** Your input file does not contain a value for the specified resource.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

**2539-185**     **The resource requirement *resource* does not have a valid value: *value*.**

**Explanation:** Your input file does not contain a value for the specified resource.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

**2439-186**     **The resource requirement *resource* must have a value greater than zero.**

**Explanation:** The value for the specified resource in your input file must be a positive integer that is not zero.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

**2539-187**     **The value of the resource requirement *resource* is not followed by a ).**

**Explanation:** The value for the specified resource in your input file is not followed by a closing parenthesis. Resource requirement values must be enclosed by parenthesis.

**User response:** Either enter a valid value into the **Resources** window, or update the resources expression in your input file, then reissue the **Restore From File** command from the **Tools** menu.

---

**2539-188**     **The consumable resource *resource* is not defined. It is ignored.**

**Explanation:** The specified resource in your input file is not defined in this LoadLeveler cluster.

**User response:** All of the defined resources appear in the Resource window. If a new resource needs to be defined, then consult your LoadLeveler administrator.

---

**2539-189**     **Unexpected value *value* is found in input field for *resource*.**

**Explanation:** The value in the specified input field is not a valid integer or integer-unit pair.

**User response:** Correct the value in the input field. The value can be either an integer, or an integer followed by one of the following units: "b", "w", "kb", "kw", "mb", "mw", "gb", "gw", "tb", "tw", "pb", "pw", "eb", or "ew".

---

**2539-190**     **The value *string* in the input field for *resource* does not start with an integer.**

**Explanation:** The specified input field must contain a string that begins with a positive integer.

**User response:** Verify that the input field begins with a positive integer.

---

**2539-191**     **Syntax error in resource requirement: *value*.**

**Explanation:** The value in the specified input field is not a valid integer or integer-unit pair.

**User response:** Correct the value in the input field. The value can be either an integer, or an integer followed by one of the following units: "b", "w", "kb", "kw", "mb", "mw", "gb", "gw", "tb", "tw", "pb", "pw", "eb", or "ew".

---

**2539-192**     **A value is required for Blocking Integer.**

**Explanation:** You have chosen the radio button indicating that you will enter a blocking factor expressed as an integer, but no value has been entered in the Integer field.

**User response:** Enter a positive nonzero value into the Integer field.

---

---

**2539-193**     **Cannot start LoadLeveler Wizard.**

**Explanation:** A problem was encountered while attempting to start the LoadLeveler Wizard for Configuration Tasks from xloadl.

**User response:** Contact your LoadLeveler administrator to verify that the setup for the wizard is correct.

---

**2539-195**     **Cannot set a communication level with a communication mode of IP. It is ignored.**

**Explanation:** A communication level was specified in a network statement which did not specify a mode of user space. Communication level is only valid on network statements which request user space.

**User response:** Update the network information in the Network window of the Job Builder, as needed.

---

**2539-196**     *option is not a valid Start From Ckpt option. It is ignored.*

**Explanation:** Your file specifies an unrecognized option for the **restart\_ckpt\_file** keyword.

**User response:** Specify a valid option. The choices are: **yes** and **no**.

---

**2539-197**     *option is not a valid Same Nodes option. It is ignored.*

**Explanation:** Your file specifies an unrecognized option for the **ckpt\_same\_nodes** keyword.

**User response:** Specify a valid option. The choices are: **yes** and **no**.

---

**2539-198**     *option is not a valid Save Ckpt File option. It is ignored.*

**Explanation:** Your file specifies an unrecognized option for the **save\_ckpt\_file** keyword.

**User response:** Specify a valid option. The choices are: **always** and **never**.

---

**2539-199**     **More than one job is selected. Select only one and rerun the command.**

**Explanation:** This command requires that just one job step is selected.

**User response:** Select just one job step and rerun the command.

---

**2539-200**     **The string *string\_name* is not a valid consumable resource name.**

**Explanation:** The name of a consumable resource can contain only alphanumeric characters or "\_" or "." and must begin with an alphabetic character.

**User response:** Redefine the consumable resource name.

---

**2539-201**     **The file *AFS\_loadable\_object\_path* was not found. If this is a submit only machine using AFS then the file must exist.**

**Explanation:** LoadLeveler uses a loadable object to store code for fetching and setting AFS tokens. LoadLeveler could not find the loadable object when attempting to load it.

**User response:** Verify that the LoadLeveler AFS loadable object is installed, then repeat the command.

---

**2539-231**     **Job Switch Resource Table could not be loaded on node *node\_name* for the following reason:[*error message*].**

**Explanation:** The Job Switch Resource Table for a job could not be loaded on the specified machine.

**User response:** Correct the problem indicated by the error message.

---

---

**2539-237**     **Job Switch Resource Table could not be unloaded on node *node\_name* for the following reason:** [error message].

**Explanation:** The Job Switch Resource Table for a job could not be unloaded on the specified machine.

**User response:** Correct the problem indicated by the error message.

---

**2539-240**     **Job Switch Resource Table could not be removed on node *node\_name* for the following reason:** [error message].

**Explanation:** The Job Switch Resource Table for a job could not be removed on the specified machine.

**User response:** Correct the problem indicated by the error message.

---

**2539-241**     **Could not determine status for switch adapter *adapter\_name* . st\_query\_adapter failed with rc *return\_code*.**

**Explanation:** The switch table service (**st\_query\_adapter**) failed to obtain and return the status of the switch. The switch will be treated as **NOT\_READY**.

**User response:** Correct the problem indicated by the return code.

---

**2539-242**     **Could not determine status for switch adapter *adapter\_name* for the following reason:** [error message].

**Explanation:** The status of the switch could not be determined due to the indicated error. The switch will be treated as **NOT\_READY**.

**User response:** Correct the problem indicated by the error message.

---

**2539-243**     **Failed to route specification *specification name (specification number)*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-244**     **Failed to route expression for *specification name (specification number)*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-245**     **Internal error, cannot find tree for configuration type *configuration type*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-246**     **Unknown stanza type *configuration type*.**

**Explanation:** A value has been defined for the specified stanza type that is not valid.

**User response:** Verify that the stanzas in the LoadLeveler administration file are correct.

---

**2539-247**     **Cannot make a new stanza of type *stanza type*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

---

**2539-248**     **Error refreshing *stanza name* stanza with defaults.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-249**     **Error merging *first stanza name* stanza with *second stanza name* stanza.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-250**     **Error inserting intlist. Element is not an array.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-251**     **Error inserting stringlist. Element is not an array.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-252**     **Error writing stanza *stanza name*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-253**     **Cannot write config file *config file name*.**

**Explanation:** LoadLeveler failed to write to the configuration file.

**User response:** Verify that the specified file exists, and that it has the appropriate access permissions.

---

**2539-254**     **Cannot write final record for file *file name*.**

**Explanation:** LoadLeveler failed to write to the specified file.

**User response:** Verify that the specified file exists, and that it has the appropriate access permissions.

---

**2539-255**     **Verify is not implemented for the *stanza name* stanza.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-256**     **Error writing stanza type *stanza type*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-257**     **Error reading file *file name*.**

**Explanation:** LoadLeveler failed to read the user's preferred configuration file.

**User response:** Verify that the specified file exists, and that it has the appropriate access permissions.

---

---

2539-261     **Unable to obtain name of operating system from configuration file.**

**Explanation:** LoadLeveler cannot find the value for **OpSys** in the configuration file.

**User response:** Define a value for **OpSys**.

---

2539-262     **Error processing config file *configuration file name* at line *line number*.**

**Explanation:** LoadLeveler failed to parse the configuration file.

**User response:** Examine the configuration file syntax at the specified line number.

---

2539-263     **Local configuration file not specified in LoadL\_config. Proceeding...**

**Explanation:** No local LoadLeveler configuration file was defined in the global LoadLeveler configuration file.

**User response:** Define local LoadLeveler configuration files on machines which are meant to override defaults in the global LoadLeveler configuration file.

---

2539-264     **Error processing local configuration file *file name*! Proceeding ...**

**Explanation:** LoadLeveler failed to process the local LoadLeveler configuration file. Values will be used from the global LoadLeveler configuration file, instead.

**User response:** Examine the local LoadLeveler configuration file's syntax.

---

2539-265     **The above line in config file is too long. It must be less than 2048 bytes.**

**Explanation:** The identified line is too long.

**User response:** Keep individual line lengths under 2K bytes.

---

2539-266     **Exiting ...**

**Explanation:** The specified program is exiting.

**User response:** Refer to the previous error messages to determine the cause.

---

2539-267     **Error in configuration file *file name*, line *line number*: Illegal identifier: *illegal string*.**

**Explanation:** There is a syntax error in the configuration file.

**User response:** Examine the specified line number to find the error.

---

2539-268     **Attention: *keyword* keyword from local configuration file, *filename*, will be ignored.**

**Explanation:** LoadLeveler encountered a keyword that is not valid.

**User response:** Examine the configuration file for keywords that are not valid.

---

2539-272     **Attention: Line length is greater than 8191 bytes. Input data may be truncated.**

**Explanation:** A line in the configuration file is longer than 8191 bytes.

**User response:** Check the configuration file for lines that are longer than 8191 bytes.

---

2539-273     **Error in configuration file *file name*, line *line number*: Syntax error.**

**Explanation:** The specified line in the configuration file contains a syntax error.

**User response:** Check the specified line number for errors.

---

---

2539-274     **gethostname routine failed, errno = *errno*.**

**Explanation:** The `gethostname` system call failed.

**User response:** Correct the problem indicated by the error number. If the problem persists, contact IBM Service.

---

2539-275     **host.domain string length exceeds *length*.**

**Explanation:** A domain name has a length that is not valid in the LoadLeveler administration file.

**User response:** Verify that the machine domain names in the LoadLeveler administration file are correct.

---

2539-276     **Unable to calloc *number of bytes* bytes for new hostent *h\_aliases* array.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-277     **Unable to re-allocate *number of bytes* bytes for new hostent *h\_aliases* array.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-278     **Unable to calloc *number of bytes* bytes for new hostent *h\_addr\_list* array.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-279     **Unable to re-allocate *number of bytes* bytes for new hostent *h\_aliases* array.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-280     **Unable to malloc *number of bytes* bytes for interface address array.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-287     **The value *pool\_list* value is invalid for *pool\_list* in the *machine* name *machine stanza*. Ignored.**

**Explanation:** The specified value is not valid.

**User response:** Verify that the stanzas in the LoadLeveler administration file are correct.

---

2539-288     **The negative number *pool\_list* value found in *pool\_list* of the *machine* name *machine\_stanza* is not allowed. Ignored.**

**Explanation:** The specified value is not valid.

**User response:** Do not use negative numbers in a machine pool list.

---

---

**2539-290**      **Feature statement with *number of characters* characters exceeds limit of 1024.**

**Explanation:** A feature statement in the configuration file is too long.

**User response:** Do not allow configuration file feature lines to exceed 1024 bytes.

---

**2539-291**      **Feature values are not set.**

**Explanation:** Feature values will not take effect due to syntax errors.

**User response:** Consult the preceding error message for more information.

---

**2539-292**      **Class statement with *number of characters* characters exceeds limit of 1024.**

**Explanation:** A class statement is too long.

**User response:** Do not specify class stanzas longer than 1024 bytes.

---

**2539-293**      **Default No\_Class assumed.**

**Explanation:** A default class value of **No\_Class** will be used.

**User response:** Consult the preceding error message for more information.

---

**2539-294**      **Attention: Invalid format found for class statement. Missing braces.**

**Explanation:** A class statement has incorrect syntax.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for a description of the correct syntax.

---

**2539-295**      **Attention: Invalid format found for class statement. Missing double quotes.**

**Explanation:** A class statement has incorrect syntax.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for a description of the correct syntax.

---

**2539-299**      **A value of *value* was specified for `max_adapter_window` in the *stanza\_type* stanza. Valid values are "1 - 4" inclusive. Default value of "4" will be used.**

**Explanation:** A default value of 4 will be used in place of a user-supplied value for `max_adapter_window` in the specified stanza.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for proper value ranges.

---

**2539-300**      **An adapter stanza name of *adapter stanza name* was specified in the *machine stanza name* machine stanza, but an adapter stanza with that name does not exist.**

**Explanation:** A machine stanza referenced a nonexistent adapter stanza.

**User response:** Machine stanzas should refer only to *existing* adapter stanzas.

---

**2539-302**      **Attention: A value for both `SCHEDULER_TYPE` and `SCHEDULER_API` has been specified. `SCHEDULER_TYPE` will be used.**

**Explanation:** Two conflicting keywords (`SCHEDULER_TYPE`, and `SCHEDULER_API`) were used in the configuration file.

**User response:** Of the two keywords, only use `SCHEDULER_TYPE` in the configuration file.

---

---

**2539-304**     **The configuration keyword *keyword name* contains the invalid value *keyword value* . The default value will be used instead.**

**Explanation:** A keyword value has been specified incorrectly.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct values.

---

**2539-305**     **More than one stanza identified as *stanza name* has been found. The first stanza in the LoadL\_admin file will be used. All others having the same name will be ignored.**

**Explanation:** Duplicate stanzas were specified in the LoadLeveler administration file.

**User response:** Verify that all LoadLeveler administration file stanzas have unique names.

---

**2539-306**     ***keyword* specified in default *stanza type* stanza. Ignored.**

**Explanation:** The identified keyword should not be specified in the default stanza.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for LoadLeveler administration file stanza syntax.

---

**2539-307**     **Attention: Unknown keyword *keyword* in *stanza type* stanza *stanza name*. Ignored.**

**Explanation:** The specified stanza contains an unknown keyword.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for LoadLeveler administration file stanza syntax.

---

**2539-309**     **Attention: Value missing for *keyword* keyword in *stanza type* stanza.**

**Explanation:** A stanza was defined without the specified keyword.

**User response:** Ignore this message if you do not wish to define the associated keyword for this stanza; otherwise, add the keyword, then reconfigure LoadLeveler.

---

**2539-310**     **Attention: Invalid value for *keyword* in LoadL\_admin file: *keyword value*.**

**Explanation:** The specified keyword's value is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct values.

---

**2539-311**     **RESERVED KEYWORD USED: The reserved keyword *keyword* has been used as a class name. LoadLeveler may not function properly with this reserved keyword used as a class name.**

**Explanation:** A LoadLeveler reserved keyword was used as the name of a job class.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for a list of reserved keywords, and verify that no job classes use reserved keywords as names.

---

**2539-312**     **Attention: A value for keyword *keyword* is required for stanza *stanza name*. Stanza is ignored.**

**Explanation:** A required keyword is missing from the specified stanza.

**User response:** Add the required keyword to the specified stanza, then reconfigure LoadLeveler.

---

**2539-314**     **Duplicate central manager specified. Stanza for machine *machine name* will be ignored.**

**Explanation:** The specified machine was defined as a duplicate central manager.

**User response:** Define only one machine stanza in the LoadLeveler administration file with `central_manager = yes`.

---

---

2539-315     **RM\_HOST ignored for machine stanza** *machine name*.

**Explanation:** The keyword `rm_host` was used in a machine stanza, but it is obsolete.

**User response:** Do not use the `rm_host` keyword any longer. Refer to *TWS LoadLeveler: Using and Administering* for update information about parallel job scheduling.

---

2539-316     **Attention: The keyword adapter\_stanzas is used but no value is specified in stanza** *machine name*.

**Explanation:** The specified keyword has no value.

**User response:** Either specify an appropriate value for the keyword, or remove the keyword, then reconfigure LoadLeveler.

---

2539-317     **Cannot specify submit\_only for a central manager.**

**Explanation:** The `submit_only` keyword was set to `true` for a central manager machine.

**User response:** Do not define a primary or alternate central manager as a submit-only machine.

---

2539-318     **Alias specified in default machine stanza. Ignored.**

**Explanation:** An alias was defined for the default machine stanza.

**User response:** Only define aliases for stanzas that are associated with real machines.

---

2539-319     **central\_manager specified in default machine stanza. Ignored.**

**Explanation:** The default machine stanza was defined as a central manager.

**User response:** Only define real machines as central managers.

---

2539-320     **No central manager defined in LoadL\_admin machine list.**

**Explanation:** The primary central manager has not been defined for this cluster.

**User response:** Define one primary central manager for your LoadLeveler cluster. This is the only required field in the LoadLeveler administration file.

---

2539-321     *resource limit name* **resource limit has a value that is too long:** *value*

**Explanation:** The specified resource limit has a syntax error.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct resource limit values.

---

2539-322     **Invalid stanza** *stanza name*. **Ignored.**

**Explanation:** The specified stanza has a type that is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct LoadLeveler administration file stanza types.

---

2539-323     **Unable to obtain** *resource limit name* **resource limit.**

**Explanation:** The `getrlimit` system call failed for the indicated resource limit.

**User response:** Verify that the resource limit name is correct. If the name is correct, report the machine that issued the error to IBM Service.

---

---

**2539-324 Unable to create central manager list, no machine list provided.**

**Explanation:** A list of central managers cannot be created because there are no machine stanzas in the LoadLeveler administration file.

**User response:** Define at least one machine as the primary central manager in the LoadLeveler administration file.

---

**2539-325 Unable to find a central manager in the LoadL\_admin file.**

**Explanation:** No central manager machine stanza exists in the LoadLeveler administration file.

**User response:** In the LoadLeveler administration file, define at least one machine as the primary central manager.

---

**2539-327 An invalid FEATURE statement in the configuration file was found.**

**Explanation:** There is a syntax error in a **FEATURE** keyword in the configuration file.

**User response:** Check the syntax of each feature statement in the configuration file; verify that each feature has a pair of double quotes surrounding it. Refer to *TWS LoadLeveler: Using and Administering* for more information on the syntax of the feature statement.

---

**2539-328 An invalid CLASS statement in the configuration file was found.**

**Explanation:** There is a syntax error in a **CLASS** keyword in the configuration file.

**User response:** Check the syntax of each class statement in the administration file; verify that each class has a pair of double quotes surrounding it. Refer to *TWS LoadLeveler: Using and Administering* for additional information.

---

**2539-329 Attention: Default stanzas for adapters are obsolete. Values specified in "default adapter stanzas" are ignored.**

**Explanation:** Default adapter stanzas are no longer supported for adapter stanzas.

**User response:** Default values specified in a default adapter stanza are not applied to other adapter stanzas. Remove the default adapter stanza.

---

**2539-331 The `css_type` value is ignored.**

**Explanation:** An error occurred while processing the `css_type` keyword.

**User response:** Consult the previous error message for more information.

---

**2539-335 Attention: The switch name of `adapter_name` was specified for adapter, `adapter stanza`, and is not valid.**

**Explanation:** An incorrect switch name was specified.

**User response:** You must specify a valid switch name, then reconfigure LoadLeveler; otherwise, this stanza will be ignored.

---

**2539-336 Attention: The `css_type` keyword specified in adapter stanza, `adapter stanza`, is not valid for non-switch adapters.**

**Explanation:** The `css_type` is not needed for non switch adapters.

**User response:** Remove the `css_type` keyword from the adapter stanza, then reconfigure LoadLeveler.

---

**2539-337 The machine stanza `machine stanza` lists more than one adapter with the same `adapter_name` of `adapter_name`. Adapter stanza `adapter_stanza` is ignored.**

**Explanation:** A machine cannot reference more than one adapter stanza of the same name.

**User response:** Remove one of the adapter stanzas listed for that machine.

---

---

**2539-338**     **There is a consumable resource without a value:** *value*.

**Explanation:** This message is self-explanatory.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

**2539-339**     **There is a consumable resource with a wrong value:** *value*.

**Explanation:** This message is self-explanatory.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

**2539-340**     **There is a consumable resource without units:** *units*.

**Explanation:** This message is self-explanatory.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

**2539-341**     **There is a floating resource with a wrong value:** *value*.

**Explanation:** This message is self-explanatory.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

**2539-342**     **There are more than one consumable resource with same name:** *value*.

**Explanation:** This message is self-explanatory.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

**2539-343**     *resource can not be a "FLOATING\_RESOURCE"*

**Explanation:** **ConsumableCpus**, **ConsumableMemory** and **ConsumableVirtualMemory** can only be defined as machine resources, which are specified in the LoadLeveler administration file.

**User response:** Check the LoadLeveler configuration and administration files for the specified resource, remove it from the global configuration file, and reconfigure LoadLeveler.

---

**2539-344**     **Could not create a striped adapter.**

**Explanation:** A striped adapter was requested at job submission but could not be created.

**User response:**

---

**2539-345**     **Could not find a striped adapter.**

**Explanation:** A striped adapter was requested at job submission but does not exist.

**User response:** Ensure your LoadLeveler environment has a striped adapter.

---

**2539-346**     **The *keyword* keyword will be ignored.**

**Explanation:** Since one or more errors were reported in previous messages regarding this keyword, the keyword and all its specified resources and their values will be ignored.

**User response:** Check the LoadLeveler global configuration and administration files for the specified resource, modify its value, and reconfigure LoadLeveler.

---

---

2539-347      **The keyword *keyword* contains an out of range value *value*. *default\_value* will be used instead.**

**Explanation:** The value of the specified keyword is out of range.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct values.

---

2539-348      **The reserved word specified for the ENFORCE\_RESOURCE\_USAGE keyword must be defined in the SCHEDULE\_BY\_RESOURCES keyword. No resources will be enforced.**

**Explanation:** A resource was defined in the ENFORCE\_RESOURCE\_USAGE keyword that was not defined in the SCHEDULE\_BY\_RESOURCES keyword.

**User response:** Redefine the resources for ENFORCE\_RESOURCE\_USAGE keyword.

---

2539-349      **The "deactivate" reserved word cannot be specified with any other reserved words in the ENFORCE\_RESOURCE\_USAGE keyword. No resources will be enforced and WLM will not be deactivated.**

**Explanation:** The deactivate keyword was specified with other resources for the ENFORCE\_RESOURCE\_USAGE keyword.

**User response:** Redefine the resources for the ENFORCE\_RESOURCE\_USAGE keyword.

---

2539-350      **ENFORCE\_RESOURCE\_USAGE resource *resource\_name* cannot be enforced. No enforcement of any resources will be done.**

**Explanation:** Only ConsumableCpus, ConsumableMemory or deactivate can be specified for the ENFORCE\_RESOURCE\_USAGE keyword.

**User response:** Redefine the resources for the ENFORCE\_RESOURCE\_USAGE keyword.

---

2539-351      **The ENFORCE\_RESOURCE\_USAGE keyword already has *reserved\_word* defined. This definition will be ignored.**

**Explanation:** A reserved word was specified more than once for the ENFORCE\_RESOURCE\_USAGE keyword.

**User response:** Redefine the resources for the ENFORCE\_RESOURCE\_USAGE keyword.

---

2539-352      **The ALL reserved word is not valid with the resource *resource\_name*.**

**Explanation:** The resource name specified does not support the ALL reserved word.

**User response:** Redefine the machine resources keyword.

---

2539-353      ***value* is an incorrect value for keyword *keyword*.**

**Explanation:** This value is not one of the valid values allowed for this keyword.

**User response:** Specify a valid value for the keyword.

---

2539-354      **Circular preemption detected for class *class\_name* under *scheduler\_type* scheduling.**

**Explanation:** If a class preempt itself after applying the preemption rules repeatedly, then it is circular preemption which is not permitted. If this message is displayed for class **allclasses**, it means that two or more **PREEMPT\_CLASS** rules contain "ALL {allclasses}" which is also circular preemption.

**User response:** Remove circular preemption from preemption rules.

---

2539-355      **Error processing configuration file *filename*.**

**Explanation:** A severe error is encountered while processing the configuration file. The configuration process is stopped.

**User response:** Correct the errors in the configuration file and try again. **llctl reconfig** or **llctl stop** may provide

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more details about the error than **llctl start** in certain situations.

---

**2539-356** *keyword\_name=keyword\_value is not valid under scheduler\_type scheduling.*

**Explanation:** The value of the specified keyword is not valid for this scheduler.

**User response:** Specify a valid keyword value for this scheduler.

---

**2539-357** **The following error(s) occurred while processing *error\_list...***

**Explanation:** The processing of the information encountered errors/problems.

**User response:** See the messages following this message for more information.

---

**2539-358** **Redundant and/or incorrect information found in the above statement. It is ignored.**

**Explanation:** Errors were found processing information in message 2539-357. The statement is ignored. Example: **START\_CLASS[allclasses]** and **PREEMPT\_CLASS[allclasses]** configuration statements are incorrect as **allclasses** is not allowed in the left hand side of those statements.

**User response:** Correct the errors in the original input.

---

**2539-359** **Syntax error - expected *value1* and found *value2* instead.**

**Explanation:** Syntax errors were found processing information in message 2539-357.

**User response:** Correct errors in the original input.

---

**2539-360** *value is not a valid integer. The value will be interpreted as value2.*

**Explanation:** A string that should have represented an integer was parsed but errors were found. The value that the string will be interpreted as is displayed in the message. An integer must be a contiguous string of digits, optionally preceded by whitespace and at most one sign and optionally followed by whitespace.

**User response:** Correct errors in the original input.

---

**2539-361** *string is not a valid number pair. The value will be interpreted as value1,value2.*

**Explanation:** A string that should have represented two integers separated by a comma was parsed but errors were found. The value that the string will be interpreted as is displayed in the message. An integer must be a contiguous string of digits, optionally preceded by whitespace and at most one sign and optionally followed by whitespace.

**User response:** Correct errors in the original input.

---

**2539-362** **The previous message refers to the *keyword* keyword.**

**Explanation:** A message was displayed while parsing the value for the specified keyword. This message serves to identify the keyword to which the previous message applies.

**User response:** Refer to the previous message for more information.

---

**2539-363** **The string *string\_name* of resource name is not a valid consumable resource name.**

**Explanation:** The name of a consumable resource can contain only alphanumeric characters or "\_" or "." and must begin with an alphabetic character.

**User response:** Redefine the consumable resource name.

---

**2539-364** **The string *string\_name* associated with the *keyword\_name* keyword of *resource\_type* contains invalid data.**

**Explanation:** Resource information specified does not have the format: **name(value units) ... name(value units).**

**User response:** Redefine the consumable resource specification.

---

2539-365     **The resource name *resource\_name* of *resource\_type* has already been defined as a floating resource.**

**Explanation:** Resource name specified is a duplicate of a previously defined floating resource.

**User response:** Redefine the consumable resource name.

---

2539-366     **The consumable resource *resource\_name* of *resource\_type* is specified more than once.**

**Explanation:** The resource name is specified multiple times in the same statement.

**User response:** Redefine the consumable resource name.

---

2539-367     **The value specified for the consumable resource *resource\_name* of *resource\_type* is not a valid specification.**

**Explanation:** The resource value assigned to a given resource is not valid. It must be a positive number.

**User response:** Redefine the consumable resource value.

---

2539-368     **The *keyword\_name* keyword of *resource\_type* contains one or more errors.**

**Explanation:** Resource information specified does not have the format: **name(value units) ... name(value units)**.

**User response:** Redefine the consumable resource specification.

---

2539-369     **The name *resource\_name* has already been defined as a resource name in a LoadLeveler machine stanza.**

**Explanation:** Resource name specified is a duplicate of a previously defined resource name of a machine stanza.

**User response:** Redefine the consumable resource name.

---

2539-370     **The keyword *keyword1* is not compatible with the keyword(s) *keyword2***

**Explanation:** The keyword indicated by *keyword1* cannot be used with the keyword or keywords indicated by *keyword2*.

**User response:** Update the file in error, then reconfigure LoadLeveler.

---

| 2539-371     **Attention: A value *value* that is not valid was entered for the keyword *smt* for the class stanza**  
|                ***class\_name*. The default value *default\_value\_for\_smt\_keyword* will be used.**

| **Explanation:** The specified class stanza contains an incorrect value for the *smt* keyword.

| **User response:** Refer to *TWS LoadLeveler: Using and Administering* for the correct values.

---

| 2539-372     **The configuration keyword *keyword\_name* contains a value *keyword\_value* that is not valid. A default**  
|                **value will not be used.**

| **Explanation:** A *keyword\_value* was specified incorrectly. A default value will not be used.

| **User response:** Refer to *TWS LoadLeveler: Using and Administering* for the correct values.

---

2539-381     **Unable to malloc *num* bytes for Security credentials file.**

**Explanation:** The program could not allocate virtual memory for the credentials file for the security mechanism in use.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

---

**2539-382**      **Cannot read *filename*. Cannot fetch DCE security credentials.**

**Explanation:** LoadLeveler cannot read the specified DCE credentials file.

**User response:** Verify that the permissions on the files and credentials cache are appropriate.

---

**2539-383**      **Cannot open *filename*. Cannot fetch DCE security credentials.**

**Explanation:** LoadLeveler cannot open the specified DCE credentials file.

**User response:** Verify that the permissions on the files and credentials cache are appropriate.

---

**2539-384**      **Cannot open directory *directory\_name*. Cannot fetch DCE security credentials.**

**Explanation:** LoadLeveler cannot open the directory containing the DCE credentials files.

**User response:** Verify that the permissions on the credentials cache and on the specified directory are appropriate.

---

**2539-386**      **Unable to malloc *num* bytes for opaque object.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2539-387**      **Unable to create opaque credentials object.**

**Explanation:** LoadLeveler cannot marshal DCE credentials into XDR format.

**User response:** Contact IBM Service.

---

**2539-388**      **DCE\_AUTHENTICATION\_PAIR keyword is not valid.**

**Explanation:** An incorrect keyword was entered.

**User response:** Correct the specified keyword in the LoadLeveler configuration file.

---

**2539-389**      **Cannot spawn new GetDce Process. *errno* - *error\_num*.**

**Explanation:** LoadLeveler cannot fork and execute the **llgetdce** process to fetch DCE credentials.

**User response:** Correct the problem indicated by the error number.

---

**2539-390**      **Unable to read length of opaque object from process pipe, read returned *return\_code*.**

**Explanation:** The **llsubmit** command could not read the length of the DCE credentials fetched by the **llgetdce** process.

**User response:** Contact IBM service.

---

**2539-391**      **Unable to malloc *num* bytes for opaque object.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2539-392**      **Unable to read opaque object from process pipe, read returned *return\_code*.**

**Explanation:** The **llsubmit** command cannot read the DCE credentials fetched by the **llgetdce** process.

**User response:** Contact IBM service.

---

- 
- 2539-393**     **Unable to read stderr from child, read returned *return\_code*.**  
**Explanation:** LoadLeveler failed to read from the **stderr** pipe when attempting to get to the **llgetdce** process.  
**User response:** This problem requires the attention of an administrator.
- 
- 2539-394**     **Failed to write size of opaque object (*object\_size*) to stdout, errno = *error\_num*.**  
**Explanation:** The opaque object contains DCE credentials fetched by the **llgetdce** process.  
**User response:** Contact IBM service.
- 
- 2539-395**     **Failed to write opaque object to stdout, errno = *error\_num*.**  
**Explanation:** The opaque object contains DCE credentials fetched by the **llgetdce** process.  
**User response:** Contact IBM service.
- 
- 2539-397**     **The environment variable KRB5CCNAME is not in the correct format of "FILE:/dce credentials cache directory".**  
**Explanation:** The referenced environment variable is not in the correct format.  
**User response:** Correct the KRB5CCNAME environment variable for user.
- 
- 2539-416**     **User failed username security validation. Username did not match expected name, *expected username*.**  
**Explanation:** The user name did not match the primary LoadLeveler user name (for example, "loadl").  
**User response:** Ensure that **/etc/LoadL.cfg** contains the same LoadLeveler user name for all of the machines in the cluster.
- 
- 2539-417**     **Cannot receive hostname from client.**  
**Explanation:** LoadLeveler failed to receive the hostname from the connecting host. This is an internal LoadLeveler routing error.  
**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.
- 
- 2539-418**     **Cannot send hostname.**  
**Explanation:** LoadLeveler failed to send the hostname to another host. This is an internal LoadLeveler routing error.  
**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.
- 
- 2539-419**     **Attention: Host name returned by *validate\_connection* (*hostname*) does not match caller host name (*host name*).**  
**Explanation:** The name server returned a different name for this host than the name that was expected. Processing continues.
- 
- 2539-420**     **Connection from *hostname* rejected; not in machine list.**  
**Explanation:** The specified host failed validation because **MACHINE\_AUTHENTICATE** is set to **TRUE**, and the host is not in the LoadLeveler administration file.  
**User response:** If you want the host to participate in the LoadLeveler cluster, then add a machine stanza to the LoadLeveler administration file.
-

---

**2539-421**      **Cannot receive remote host name** (*IP address port port number*) **errno = error num**

**Explanation:** `gethostbyaddr()` system call failed for the specified IP address.

**User response:** Either set `MACHINE_AUTHENTICATE` to `FALSE` (to allow all hosts to participate), or verify the validity of the IP address.

---

**2539-422**      **ProtocolReset: Cannot send protocol version.**

**Explanation:** This is an internal LoadLeveler routing error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-423**      **ProtocolReset: Cannot send machine name.**

**Explanation:** LoadLeveler failed to send the host name. This is an internal LoadLeveler routing error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-424**      **Cannot send step** *job step name*.

**Explanation:** This is an internal LoadLeveler routing error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-425**      **Cannot send end of record for step** *job step name*.

**Explanation:** LoadLeveler failed to send the transaction end-of-record marker.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-426**      **Cannot send step id** *job step name*.

**Explanation:** LoadLeveler failed to send the job step identifier.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-427**      **Error receiving acknowledgment for step** *job step name*.

**Explanation:** LoadLeveler failed to receive transaction acknowledgement for a job step.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-428**      **ProtocolReset: Cannot receive protocol version.**

**Explanation:** LoadLeveler cannot receive the protocol version from the connecting machine.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-429**      **ProtocolReset: Cannot receive machine name.**

**Explanation:** LoadLeveler cannot receive the name of a connecting machine.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-430**      **Attention: Routing default machine.**

**Explanation:** Routing an entire machine object rather than transaction-specific machine data.

---

---

2539-431     **Unrecognized specification:** *specification name (specification value)*

**Explanation:** LoadLeveler encountered erroneous machine data.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

2539-432     **Invalid value defined in the stanza type stanza stanza name for keyword = value.**

**Explanation:** The specified keyword has an incorrect value.

**User response:** Verify that the LoadLeveler administration file stanzas are correct.

---

2539-433     **Invalid keyword keyword specified in the stanza type stanza stanza name.**

**Explanation:** The specified keyword is not valid.

**User response:** Verify that the LoadLeveler administration file stanzas are correct.

---

2539-434     **The keyword keyword specified in the stanza type stanza stanza name cannot be NULL.**

**Explanation:** The specified keyword has an incorrect NULL value.

**User response:** Verify that the LoadLeveler administration file stanzas are correct.

---

2539-435     **Cannot append to keyword in the stanza\_name stanza\_type stanza.**

**Explanation:** LoadLeveler failed to append a value to a keyword in the named stanza.

**User response:** Verify that you are not treating a non-list stanza keyword as a list type.

---

2539-436     **Cannot find central manager. Unable to queue command (command number) to central manager.**

**Explanation:** The central manager machine could not be found in this daemon's configuration.

**User response:** Verify that the central manager is defined in the LoadLeveler administration file, and that it, or an alternate, is running.

---

2539-437     **No log directory specified in the LoadL\_config file for this daemon.**

**Explanation:** There is no log directory specified for this daemon in the LoadLeveler configuration file.

**User response:** Specify a log file for this daemon in the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

2539-438     **Attention: Cannot chdir to directory name. Attempting to continue...**

**Explanation:** LoadLeveler cannot change to the specified log directory.

**User response:** Verify the existence of the directory, and that it has the appropriate permissions.

---

2539-439     **No spool directory specified in the LoadL\_config file.**

**Explanation:** The path for the local spool directory was not specified in the LoadLeveler configuration file.

**User response:** Add a path for the local spool directory to the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

2539-440     **No execute directory specified in the LoadL\_config file.**

**Explanation:** The path for the local execute directory was not specified in the LoadLeveler configuration file.

**User response:** Add a path for the local execute directory to the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

---

**2539-441 Attention: Cannot set userid to uid number (user name). Attempting to continue...**

**Explanation:** LoadLeveler failed to set the effective user ID.

**User response:** Verify that the daemon runs as root, and that the **uid** is valid.

---

**2539-442 Attention: Cannot set groupid to gid number (group name). Attempting to continue...**

**Explanation:** LoadLeveler failed to set the effective group ID.

**User response:** Verify that the daemon runs as root, and that the **gid** is valid.

---

**2539-443 No history file specified in the LoadL\_config file.**

**Explanation:** There is no history file specified in the LoadLeveler configuration file.

**User response:** Add a history file to the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

**2539-444 Attention: Value specified for cm\_heartbeat\_interval is invalid. Default value (= default cm\_heartbeat\_interval value) will be used.**

**Explanation:** The value specified for **cm\_heartbeat\_interval** is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for correct **cm\_heartbeat\_interval** settings.

---

**2539-445 Attention: Value specified for cm\_timeout is invalid. Default value (default cm\_timeout value) will be used.**

**Explanation:** The value specified for **cm\_timeout** is not valid.

**User response:** Refer to *TWS LoadLeveler: Using and Administering* for the correct **cm\_timeout** settings.

---

**2539-446 No central manager defined. Cannot continue.**

**Explanation:** No central manager is defined in the LoadLeveler administration file.

**User response:** Define a central manager in the LoadLeveler administration file, then restart LoadLeveler.

---

**2539-447 LInetProcess: Unable to instantiate LIConfig object.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2539-448 Syntax error in LoadLeveler configuration files.**

**Explanation:** There is a syntax error in the administration or configuration files.

**User response:** Verify that the syntax of the LoadLeveler configuration and administration files is valid.

---

**2539-449 Unable to instantiate this\_machine object.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

**2539-450 Unable to instantiate this\_cluster object.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

---

2539-451     **Attention: No administrator list specified in LoadL\_config file.**

**Explanation:** There is no administrator list specified in the global LoadLeveler configuration file.

**User response:** To enable administrative functions, specify an administrator list in the global LoadLeveler configuration file.

---

2539-452     *daemon name is orphaned! Exiting...*

**Explanation:** The specified daemon is no longer a child of the **LoadL\_master** daemon.

**User response:** Check the logs to diagnose the problem. Restart LoadLeveler.

---

2539-453     **Illegal protocol (sender process' protocol version ), received from another process on this machine - machine name . This daemon daemon name is running protocol version (version ).**

**Explanation:** Two daemons on this machine have different protocol versions.

**User response:** Run **llctl -v** to verify the daemon and command versions. If a software upgrade is needed, then contact the LoadLeveler administrator.

---

2539-454     **Illegal protocol (protocol version of sending machine ), received from name of sending machine . This machine receiving machine is running protocol version (version).**

**Explanation:** LoadLeveler daemons on two different machines are at different protocol levels.

**User response:** Run **llctl -v** to verify the daemon and command versions on all of the machines. If a software upgrade is needed, then contact the LoadLeveler administrator.

---

2539-455     **Attention: Allocating base Machine object.**

**Explanation:** LoadLeveler is allocating a generic machine, not a LoadLeveler-defined machine. This is an internal LoadLeveler error.

**User response:** Contact IBM service.

---

2539-456     **Cannot allocate Machine object for new machine: machine name.**

**Explanation:** The program cannot allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, contact IBM service.

---

2539-457     **Cannot gethostbyname for machine: machine name**

**Explanation:** The **gethostbyname()** routine returned an error for the specified machine.

**User response:** Verify that the specified machine exists, that the name being used is resolvable, and that the LoadLeveler administration file contains valid machine names.

---

2539-458     **Unable to find or allocate Machine object for machine (machine name or IP address).**

**Explanation:** LoadLeveler failed to locate data for the specified machine.

**User response:** Verify that adequate memory is available on the specified machine, and that the LoadLeveler administration file contains valid machine names.

---

2539-459     **Cannot gethostbyaddr for machine: machine name**

**Explanation:** The **gethostbyaddr()** routine returned an error for the specified machine.

**User response:** Verify that the machine exists, that the address being used is resolvable, and that the LoadLeveler administration file contains valid machine names.

---

---

2539-460	<b>Cannot start thread for service</b> <i>service type</i> <b>on port</b> <i>port number</i> . <b>rc = return code</b>
<b>Explanation:</b> LoadLeveler failed to create a thread.	
<b>User response:</b> Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.	

---

2539-461	<b>Attention: Connection to</b> <i>machine name</i> <b>port</b> <i>port number</i> <b>reset. Retrying ...</b>
<b>Explanation:</b> LoadLeveler is attempting to reconnect to named machine via indicated port.	
<b>User response:</b> Attention message - no action.	

---

2539-462	<b>Attention: Connection to</b> <i>machine name</i> <b>path</b> <i>socket path</i> <b>reset. Retrying ...</b>
<b>Explanation:</b> LoadLeveler is attempting to reconnect to named machine via indicated socket path.	
<b>User response:</b> Attention message - no action.	

---

2539-463	<b>Cannot connect to</b> <i>machine name</i> <b>service name</b> <b>on port</b> <i>port number</i> . <b>errno = errno</b>
<b>Explanation:</b> LoadLeveler failed to connect to the specified service on the specified machine and port.	
<b>User response:</b> Correct the problem indicated by the error number.	

---

2539-464	<b>Cannot connect to</b> <i>machine name</i> <b>path</b> <i>socket path</i> . <b>errno = errno</b> .
<b>Explanation:</b> LoadLeveler failed to connect to the specified machine via the specified socket path.	
<b>User response:</b> Correct the problem indicated by the error number.	

---

2539-465	<b>Cannot receive file permissions for file</b> <i>file_name</i> . <b>errno = errno (error_description)</b> .
<b>Explanation:</b> This is an internal LoadLeveler error.	
<b>User response:</b> Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.	

---

2539-466	<b>Cannot send file size, for file</b> <i>file_name</i> , <b>errno = errno (error_description)</b> .
<b>Explanation:</b> This is an internal LoadLeveler error.	
<b>User response:</b> Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.	

---

2539-467	<b>Cannot send file characteristics for file</b> <i>file_name</i> . <b>errno = errno (error_description)</b> .
<b>Explanation:</b> This is an internal LoadLeveler error.	
<b>User response:</b> Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.	

---

2539-468	<b>sendFile: Cannot receive ready-to-receive status for file</b> <i>file_name</i> . <b>errno = errno (error_description)</b> .
<b>Explanation:</b> This is an internal LoadLeveler error.	
<b>User response:</b> Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.	

---

2539-469	<b>Receiver refuses file,</b> <i>file_name</i> .
<b>Explanation:</b> This is an internal LoadLeveler error.	
<b>User response:</b> Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.	

---

---

**2539-470**     **Cannot send file *file\_name* to stream. *errno* = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-471**     **Cannot receive file *file\_name* from stream. *errno* = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-472**     **Cannot receive file size for file *file\_name*. *errno* = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-473**     **Cannot send ready-to-receive status for file *file\_name*, *errno* = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-474**     **Cannot send file buffer for *file\_name* to stream. *errno* = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-475**     **Cannot receive command from client *machine name*, *errno* = *errno*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-476**     **Got unknown command (*command value*)**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-477**     **Cannot fork child process. *errno* = *errno***

**Explanation:** The fork system call failed to fork a child process.

**User response:** Correct the problem indicated by the error number.

---

**2539-478**     **Cannot change process group. *errno* = *errno***

**Explanation:** The `setpgid` system call failed to change a process group.

**User response:** Correct the problem indicated by the error number.

---

**2539-479**     **Cannot listen on port *port number* for service *service name*.**

**Explanation:** LoadLeveler cannot listen on the specified port for the specified service.

**User response:** Verify that the specified service is not already running on the machine, and that the port is not already in use.

---

---

2539-480      **Cannot start main socket.** *errno = errno*

**Explanation:** The listen system call failed to start a socket.

**User response:** Correct the problem indicated by the error number.

---

2539-481      **Cannot start new TransAction thread.** *rc = return code*

**Explanation:** LoadLeveler failed to start a thread.

**User response:** Verify that sufficient memory is available, then recycle LoadLeveler. If the problem persists, then contact IBM service.

---

2539-482      **Cannot start new Stream Connection thread.** *rc = return code.*

**Explanation:** LoadLeveler failed to start a thread.

**User response:** Verify that sufficient memory is available, then recycle LoadLeveler. If the problem persists, then contact IBM service.

---

2539-483      **Cannot perform chmod on input socket** *socket path. errno = errno*

**Explanation:** The chmod system call failed to change permissions on the specified socket path.

**User response:** Verify that the socket path exists, and that the process attempting **chmod** has been authenticated.

---

2539-484      **Cannot start UNIX socket on path** *socket path. errno = errno*

**Explanation:** LoadLeveler failed to start a UNIX socket.

**User response:** Correct the problem indicated by the error number.

---

2539-485      **Cannot start new UNIX Connection thread.** *rc = return code.*

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

2539-486      **Cannot start new datagram Connection thread.** *rc = return code.*

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

2539-488      **The daemon name daemon must be run as root.**

**Explanation:** The specified daemon can only be run by the root user.

**User response:** su to root, then run the daemon.

---

2539-489      **Unable to open /dev/null (errno = errno) to re-direct stdin. Continuing.**

**Explanation:** The open system call failed.

**User response:** Correct the problem indicated by the error number.

---

2539-490      **Unable to open /dev/null (errno = errno) to re-direct stdout. Continuing.**

**Explanation:** The open system call failed.

**User response:** Correct the problem indicated by the error number.

---

---

2539-491      **Cannot start main thread. rc = return code**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

2539-492      **Unable to set\_user\_euid(uid number)**

**Explanation:** LoadLeveler failed to set the effective user ID.

**User response:** Verify that the daemon binary file has the appropriate permissions.

---

2539-493      **Unable to set\_user\_ruid(uid number)**

**Explanation:** LoadLeveler failed to set the real user ID.

**User response:** If the problem persists, then contact the LoadLeveler administrator.

---

2539-495      **Failed to set host\_entry for machine: machine name.**

**Explanation:** LoadLeveler encountered an error while setting host entry information for the specified machine. Problems communicating with the machine may result.

**User response:** Verify that the specified machine is known to the name server; if the problem persists, then contact IBM service.

---

2539-496      **Machine name, machine, exceeds number characters.**

**Explanation:** The specified machine name exceeds the maximum number of characters allowed for a host name.

**User response:** Verify that the host name is valid; if necessary, update the LoadLeveler administration file.

---

2539-497      **Program Error: error message.**

**Explanation:** A LoadLeveler daemon or command detected corrupted internal data.

**User response:** If the problem persists, then contact IBM service.

---

2539-498      **Security Services error. The following error message was issued: error message.**

**Explanation:** An error was reported by Security Services.

**User response:** If CtSec is enabled for LoadLeveler, check the CtSec configuration. Correct the problem based on the information provided in the message returned by Security Services. If the problem persists, contact IBM service.

---

2539-502      **Client not authorized for transaction. Security Services issued the following error message:  
error\_message.**

| **Explanation:** The command or daemon cannot successfully initiate communication with cluster security services.

| **User response:** Make sure that the client is a member of the appropriate group when CtSec is enabled.

---

2539-504      **Connection with daemon daemon was broken.**

**Explanation:** A LoadLeveler daemon or command detected an internal error.

**User response:** If the problem persists, then contact IBM service.

---

---

**2539-510**     **Unable to determine authentication methods on host. This machine will be dropped from the cluster.**

**Explanation:** An error occurred while trying to determine the authentication methods defined on the current machine.

**User response:** Check the Security Services configuration on your system. If the problem persists, contact your administrator.

---

**2539-513**     **The authentication mechanism is not available. CTSEC requires *security\_level* or greater be installed. The machine will be dropped from the cluster.**

**Explanation:** When the cluster security services component of RSCT is enabled, a minimum level of the security services library is required. The machine will be dropped from the cluster.

**User response:** The system administrator should be contacted to install the level of software indicated, or a higher level.

---

**2539-515**     **The LoadLeveler configuration file specifies login restriction checking (REJECT\_ON\_RESTRICTED\_LOGIN) but the version of AIX installed does not support the LoadLeveler usage. The restriction checking will not be performed.**

**Explanation:** The LoadLeveler configuration file specifies login restriction checking (REJECT\_ON\_RESTRICTED\_LOGIN), but the version of AIX installed does not support the LoadLeveler usage. Restriction checking will not be performed.

**User response:** Turn off the **loginrestrictions** checking in the configuration file until the version of AIX that supports this checking for LoadLeveler has been installed.

---

**2539-516**     **An error was encountered trying to read file *file\_name*, rc = *return\_code*, file size = *file\_size*, bytes read = *bytes\_read*, errno = *errno* (*error\_description*).**

**Explanation:** An I/O error occurred attempting to read a file.

**User response:** Examine the *errno* and error description. If the file is a user-specified file, correct the problem indicated by the *errno*.

---

**2539-517**     **An error was encountered trying to write file *file\_name*, rc = *return\_code*, file size = *file\_size*, bytes written = *bytes\_read*, errno = *errno* (*error\_description*).**

**Explanation:** An I/O error occurred attempting to write a file.

**User response:** Examine the *errno* and error description. If the file is a user-specified file, correct the problem indicated by the *errno*.

---

**2539-518**     **Cannot receive error message from stream. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-519**     **Cannot send error message from stream. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-520**     **Cannot receive file buffer for *file\_name* from stream. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

---

**2539-521**     **Cannot receive flag for file *file\_name*, from stream. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-522**     **Cannot send flag, *flag*, for file *file\_name*, to stream. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-523**     **Cannot send a 64bit file size for file *file\_name*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-524**     **Cannot send file permissions for file *file\_name*. errno = *errno* (*error\_description*).**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-525**     **The amount of bytes, *number\_of\_bytes*, read for *file\_name*, does not match file size, *file\_size*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-526**     **The following error message was received from the companion NetFile process when attempting to transmit file *file\_name*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-527**     **Unexpected NetFile flag received (*flag*) when attempting to transmit file *file\_name*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-566**     *command: Failed to route *field* (*specification code*) in *location**

**Explanation:** An error occurred attempting to route between daemons. The problem may be a network or TCP problem, or an internal LoadLeveler problem.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-567**     *object fetch function does not recognize specification *field*(*specification code*)*

**Explanation:** CA field was requested from an object, but the field identifier is not known by the object. This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-568**     *function name is returning a NULL element for specification *specification name* (*specification value*)*

**Explanation:** An unexpected NULL value is being returned for a specification. This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

---

**2539-569 Internal Error: Specification *specification name* is not recognized.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-591 *internal context (specification number)* not recognized by fetch()**

**Explanation:** LoadLeveler encountered an unrecognized data type.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-592 *internal context (specification number)* not recognized by insert()**

**Explanation:** LoadLeveler encountered an unrecognized data type.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-593 Cannot rename *file name* to *new file name*. Logging may be incomplete. *errno* = *errno***

**Explanation:** The **rename** system call failed to rename the specified file to the new name with a **.old** extension.

**User response:** Verify that there is enough files system space, and that the files have the appropriate permissions. Correct the problem indicated by the error number.

---

**2539-594 Cannot open input file *file name* for copy, *errno* = *errno*.**

**Explanation:** The **fopen** system call failed to open the specified file for input.

**User response:** Verify the existence of the file, and that it has the appropriate permissions. Correct the problem indicated by the error number.

---

**2539-595 Cannot open log file *file name*, *errno* = *errno*. Logging will remain unchanged.**

**Explanation:** The **fopen** system call failed to open the specified log file.

**User response:** Verify the existence of the file, and that it has the appropriate permissions. Correct the problem indicated by the error number.

---

**2539-596 No name specified for log file. Logging will go to stderr.**

**Explanation:** There is no log file name specified in the LoadLeveler configuration files for this daemon.

**User response:** If you want logging to write to a specific file, then specify a log file in the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

**2539-597 Error *non-translated error line source line number file file name*.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-599 Job *job number .step number* - Unable to malloc *number of bytes* bytes for a MACH\_USAGE struct.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

---

**2539-600**     **Unable to create string for copy of file name.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

**2539-601**     **Incorrect status file name - file name.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Drain, then recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-602**     **status file, file name, already exists**

**Explanation:** The specified status file already exists.

**User response:** None.

---

**2539-603**     **Cannot create status file, file name, errno = errno [error message].**

**Explanation:** LoadLeveler cannot create the specified file.

**User response:** Verify that the file has the appropriate permissions, that you have specified the correct path to the execute directory, and that there is sufficient filesystem space.

---

**2539-604**     **Cannot open status file, file name , errno = errno [error message].**

**Explanation:** LoadLeveler cannot open the specified file.

**User response:** Verify that the file has the appropriate permissions, that you have specified the correct path to the execute directory, and that there is sufficient filesystem space.

---

**2539-605**     **Cannot remove status file, file name , errno = error number [error message].**

**Explanation:** LoadLeveler could not delete the specified file.

**User response:** Verify that the file has the appropriate permissions, and that you have specified the correct path to the execute directory.

---

**2539-606**     **Cannot write number bytes to status file, filename, errno = errno [error message].**

**Explanation:** LoadLeveler failed to write to the specified file.

**User response:** Verify that the file has the appropriate permissions, that you have specified the correct path to the execute directory, and that there is sufficient filesystem space available.

---

**2539-607**     **lseek failed for status file, file name , offset = file offset , whence = offset usage flag , errno = errno [error message].**

**Explanation:** lseek failed to set a file pointer.

**User response:** Verify that the file has the appropriate permissions, and that you have specified the correct path to the execute directory.

---

**2539-608**     **Cannot remove usage file, file name , errno = errno [error message ] .**

**Explanation:** LoadLeveler failed to delete the specified file.

**User response:** Verify that the file has the appropriate permissions, and that you have specified the correct path to the execute directory.

---

---

**2539-609**     **Cannot open usage file *filename* to read. *errno* = *error num*.**

**Explanation:** LoadLeveler cannot open the specified file.

**User response:** Verify that the file has the appropriate permissions, that you have specified the correct path to the execute directory, and that there is sufficient filesystem space.

---

**2539-610**     **Cannot route dispatch usage for file *filename*.**

**Explanation:** The **startd** cannot read or write accounting information to the job usage file.

**User response:** Examine the specified file to determine why the **startd** is failing to read or write to it.

---

**2539-611**     **Cannot open usage file *filename* to write. *errno* = *error num***

**Explanation:** LoadLeveler cannot open the specified file.

**User response:** Verify that the file has the appropriate permissions, and that you have specified the correct path to the execute directory.

---

**2539-612**     **Cannot write dispatch usage file *filename*.**

**Explanation:** LoadLeveler cannot write to the specified file.

**User response:** Verify that the file has the appropriate permissions, and that you have specified the correct path to the execute directory.

---

**2539-613**     **No reservation history file specified in the *LoadL\_config* file.**

**Explanation:** There is no reservation history file specified in the LoadLeveler configuration file.

**User response:** Add a reservation history file to the LoadLeveler configuration file, then reconfigure LoadLeveler.

---

**2539-614**     **The command *command* failed with the following error message: *error\_message*.**

**Explanation:** A failure occurred when LoadLeveler ran the specified command.

**User response:** Examine the error message to determine the appropriate action.

---

**2539-615**     **The *command* command must be run as root.**

**Explanation:** The specified command must be run from a process with a valid **root** ID.

**User response:** Verify that the process running the command is running as **root**.

---

**2539-751**     ***getrlimit* or *setrlimit* for system call *limit* failed. *errno* =*error number* [*error message*].**

**Explanation:** The **getrlimit** or **setrlimit** system call failed.

**User response:** Consult the specified error message for more information.

---

**2539-752**     **The *system call name* system call failed for user *username*. *errno*=*error num* [*error msg*].**

**Explanation:** The specified system call failed.

**User response:** Consult the specified error message for more information.

---

**2539-753**     **The *uid* for user, *user name*, on the executing machine (*uid*) does not match *uid* on submitting machine (*uid*).**

**Explanation:** The user must have the same **uid** on both the submitting and the executing machines.

**User response:** Either configure LoadLeveler to allow the user only to run on machines with the same **uid**, or change the **uid** s on machines in the LoadLeveler cluster.

---

---

**2539-754**     **The gid (*gid*) for user, *user name*, on the submitting machine was not found in the group list for the user on the executing machine.**

**Explanation:** The user's group ID on the submitting machine must also be valid group on the executing machine.

**User response:** Either configure LoadLeveler to allow the user only to run on machines where the **gid** is valid, or add the **gid** to the user's group list on all of the machines in the LoadLeveler cluster.

---

**2539-755**     **The system call to set the real or effective uid to *uid* failed. *errno*=*error num* [*error msg*].**

**Explanation:** The specified system call failed.

**User response:** Consult the specified error message for more information.

---

**2539-756**     **The *setregid* system call failed for gid *gid*. *errno*= *error num error msg*.**

**Explanation:** The **setregid** system call failed.

**User response:** Consult the specified error message for more information.

---

**2539-757**     ***object ID* does not have a **StepVars** object.**

**Explanation:** The specified object was asked for its global keyword value structure, but one does not exist. The object can be a **Job**, a **Step**, or a**StepList**.

**User response:** Report the error to the LoadLeveler administrator, and verify that the Job in the source file is correct.

---

**2539-758**     ***object ID* does not have a **TaskVars** object.**

**Explanation:** The specified object was asked for its global keyword value structure, but one does not exist. The object can be a: **Job**, **Step**, **StepList**, **Node**, **Task** or **TaskInstance**.

**User response:** Report the error to the LoadLeveler administrator, and verify that the Job in the source file is correct.

---

**2539-759**     ***object type object num* is not contained and cannot return **StepVars**.**

**Explanation:** The specified object was asked for its global keyword value structure, but it does not keep one locally, and it is not contained by another object that does.

**User response:** Report the error to the LoadLeveler administrator, and verify that the Job in the source file is correct.

---

**2539-760**     **Attempt to reassign **Task** instances to **Step** *step name*.**

**Explanation:** LoadLeveler tried to create the task instances for the specified step after machine assignments were made, but the step already had task instances. This indicates a failure in the LoadLeveler process.

**User response:** Report the error to the LoadLeveler administrator.

---

**2539-761**     ***object type object num* is not contained and cannot return **TaskVars**.**

**Explanation:** The specified object was asked for its global keyword value structure, but it does not keep one locally, and it is not contained by another object that does.

**User response:** Report the error to the LoadLeveler administrator, and verify that the Job in the source file is correct.

---

**2539-762**     **Failed to set **AFS** credentials. *errno*=*error num error msg*.**

**Explanation:** LoadLeveler failed to establish AFS tokens.

**User response:** Verify that AFS is installed on the executing machine, and that **llafs.shr.o** exists in the same directory which contains **LoadL\_master**.

---

---

**2539-763**     **Unable to set DCE security credentials. Job will proceed without DCE credentials. errno=error num [error msg].**

**Explanation:** LoadLeveler failed to establish DCE credentials.

**User response:** Verify that DCE is installed on the executing machine, and that the executables specified in **DCE\_AUTHENTICATION\_PAIR** exist. Consult the specified error message for more information.

---

**2539-764**     **Unable to import DCE context. Will continue without credentials. errno=error num error msg.**

**Explanation:** LoadLeveler cannot import the DCE credentials returned by the **llsetdce** executable.

**User response:** Verify that **llsetdce**, or its replacement, exists, and that it matches the interface for a LoadLeveler DCE authentication exit.

---

**2539-765**     **Unable to remove DCE credentials.**

**Explanation:** LoadLeveler cannot remove DCE credentials.

**User response:** Monitor the DCE credential cache to see if LoadLeveler is leaving excess credentials.

---

**2539-766**     **Unable to fetch DCE credentials. DCE credentials will not be included in job submission.**

**Explanation:** The error message is self-explanatory.

**User response:** Verify that DCE is installed, and that the **DCE\_AUTHENTICATION\_PAIR** keyword is set correctly in the configuration file.

---

**2539-767**     **STARTER not specified in config file.**

**Explanation:** The full path for the starter program must be specified in the configuration file.

**User response:** Verify that the **STARTER** keyword is specified correctly in the configuration file.

---

**2539-768**     **Unable to open database for job queue job queue because: errno=error code (error description)**

**Explanation:** The job queue file could not be opened.

**User response:** Consult the specified error message for more information.

---

**2539-769**     *function name:* **Error retrieving Job StepList from Queue. Unable to route step type.**

**Explanation:** The job in the job queue has been damaged, and could not be retrieved.

**User response:** Contact the LoadLeveler administrator.

---

**2539-770**     *function name:* **Error retrieving Job Steps from Queue. object type (encoding of object) is not a valid type.**

**Explanation:** The job in the job queue has been damaged, and could not be retrieved.

**User response:** Contact the LoadLeveler administrator.

---

**2539-771**     **Invalid data type= data type in function name.**

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-772**     **Error returned from Security Services [message]. Processing will continue without security credentials.**

**Explanation:** Security Services returned an error when LoadLeveler tried to establish the user's CtSec security credentials. LoadLeveler will attempt to run the job without security credentials.

**User response:** Correct the problem indicated by the Security Services error message provided.

---

---

**2539-773** Error returned from Security Services [*message*]. The job will not be run.

**Explanation:** Security Services returned an error when LoadLeveler tried to establish the user's CtSec security credentials. LoadLeveler will not attempt to run the job.

**User response:** Correct the problem indicated by the Security Services error message provided, then rerun the job.

---

**2539-774** Error returned by *program\_name\_identifier* indicating *security\_mechanism* user *user\_name* cannot access the AIX account of user *AIX\_user\_name*. The job will not run. NOTE: This could indicate that a *file\_name* file is either missing or is not valid in the AIX user's home directory.

**Explanation:** When security is enabled, the **kvalid\_user** AIX service routine denied user access to the listed AIX user's account. When the cluster security services component of RSCT is enabled, the service used to verify that the user's security identity can access the user's account was denied access.

**User response:** Either add the *file\_name* to the AIX user's home directory, or verify that the *file\_name* is valid, then rerun the job. If the problem persists, contact your administrator.

---

**2539-775** Error returned by **resurok** indicating user *AIX user name* may not access host *AIX host name*. The job will not be run.

**Explanation:** The **ruserok** AIX service routine denied the AIX user access to the AIX host. Such access is allowed if the **/etc/host.equiv** and **@HOME/.rhosts** files are configured properly.

**User response:** Refer to the AIX documentation on **/etc/host.equiv** and **\$HOME/.rhosts** files to correct the problem, then rerun the job.

---

**2539-778** Invalid data **type=invalid\_data\_type** in function.

**Explanation:** This is an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the affected machines. If the problem persists, contact IBM service.

---

**2539-826** The Schedd cannot access the *exit\_type* installation exit *program\_name*. **errno = error\_number** [*error\_message*].

**Explanation:** An error occurred invoking the named installation exit.

**User response:** Consult the specified error message to determine the appropriate course of action.

---

**2539-827** The job *job\_name* requested *user\_installation\_exit* decision, but an error occurred invoking the *exit\_type* installation exit.

**Explanation:** An error occurred when the specified exit was invoked for this job.

**User response:** Report the error to your local cluster administrator.

---

**2539-828** The job *job\_name* requested *user\_installation\_exit* decision, but the cluster is not configured for *configuration\_keyword*.

**Explanation:** A message is displayed for the cluster metric job you requested because the local cluster is not configured to run a cluster metric installation exit.

**User response:** Resubmit the job specifying a valid cluster from which the job is to be scheduled.

---

**2539-829** The mapped user name *user\_name* for job *job\_name* is not a valid user on cluster *cluster\_name*.

**Explanation:** The user name mapped by the user mapper installation exit for the specified job is not valid in the cluster where it is being mapped.

**User response:** Report the error to the local cluster administrator.

---

---

**2539-830**     **User mapping was requested for user name *user\_name* on cluster *cluster\_name*, but an error occurred invoking the user mapper installation exit.**

**Explanation:** The user mapper installation exit is unable run on the local cluster.

**User response:** Report the error to the local cluster administrator.

---

**2539-831**     **The Schedd did not receive the mapped user name from the user mapper program *program\_name*.**

**Explanation:** The user mapper installation exit on the local cluster did not return a mapped user name to the local schedd.

**User response:** Report the error to the local cluster administrator.

---

**2539-832**     **The user mapper program *program\_name* failed with rc = *return\_code*.**

**Explanation:** The user mapper installation exit failed with the specified return code.

**User response:** Report the error to the local cluster administrator.

---

**2539-833**     **The ArgList creation returned the error *return\_code* while creating the argument list to process the remote llq command: *command\_specification*. The llq -s command failed for the remote node in cluster *cluster\_name*.**

**Explanation:** An error occurred while trying to create the argument list for the llq -s command as a child process in the remote cluster.

**User response:** Verify that you specified the llq -s command syntax correctly. Examine the LoadLeveler logs that were generated in the remote cluster to determine if there were any system failures that might cause the command to fail.

---

**2539-834**     **The Schedd cannot access the LoadLeveler llq binary *llq\_path\_name*. The llq -s command failed for the remote node in cluster *cluster\_name*, errno = *error\_number* [*error\_message*].**

**Explanation:** An error occurred while trying to access the llq binary from the LoadLeveler binary directory when running the llq -s command as a child process in the remote cluster.

**User response:** Using the reported system error information and corresponding error message, verify that the named llq binary exists in the remote cluster and that the permissions are correct.

---

**2539-835**     ***command\_specification* was requested on cluster *cluster\_name*, but an error occurred invoking the llq binary.**

**Explanation:** An error occurred while trying to run the llq binary when running the llq -s command as a child process in the remote cluster.

**User response:** Verify that you specified the llq -s command syntax correctly. Try running the command manually in the remote cluster to determine if system problems exist and why the binary will not run successfully. Examine the LoadLeveler logs in the remote cluster to determine if any supplementary information exists.

---

**2539-836**     **The llq process *command\_specification* failed with rc = *return\_code*.**

**Explanation:** An error occurred while trying to run the llq binary when running the llq -s command as a child process in the remote cluster.

**User response:** Verify that you specified the llq -s command syntax correctly. Try running the command manually in the remote cluster to determine if system problems exist and why the binary will not run successfully. Examine the LoadLeveler logs in the remote cluster to determine if any supplementary information exists.

---

---

**2539-837**     **The job *job\_name* failed to connect to the remote Schedd.**

**Explanation:** A communication connection to the remote inbound Schedd for the cluster failed.

**User response:** Verify that a remote inbound Schedd for the cluster has a communication path to the local cluster.

---

**2539-838**     **The remote Schedd *machine\_name* cannot receive the executables from the outbound Schedd for job *job\_name*.**

**Explanation:** An error occurred on the local outbound Schedd while routing the job's executables to the remote inbound Schedd.

**User response:** Verify that the local outbound Schedd has sufficient spool space and a communication path to the remote inbound Schedd. Examine the remote Schedd log for additional information.

---

**2539-839**     **The remote Schedd *machine\_name* cannot receive the user's job command file from the outbound Schedd for job *job\_name*.**

**Explanation:** An error occurred on the local outbound Schedd while routing the user's job command file to the remote inbound Schedd.

**User response:** Verify that the local outbound Schedd has sufficient spool space and a communication path to the remote inbound Schedd. Examine the remote Schedd log for additional information.

---

**2539-840**     **A remote job, *job\_name*, received by inbound Schedd *machine\_name* is not valid.**

**Explanation:** The job received by the remote inbound Schedd did not contain valid information and cannot be processed as a remote job.

**User response:** Retry the command. If the problem persists, contact IBM service.

---

**2539-841**     **The Schedd cannot insert job *job\_name* into its list of jobs.**

**Explanation:** This error can occur if the Schedd already has a job in its list that has the same job identifier. This can happen if the Schedd that assigned the job identifier is restarted after its **spool** directory was cleaned. In this case, a job may receive the same job identifier as an existing remote job.

**User response:** Retry the command. Examine the remote inbound Schedd log for additional information.

---

**2539-843**     **The Schedd cannot find the recently arrived job *job\_name* in its list of jobs. No further processing of the job will occur.**

**Explanation:** After the job received by the remote inbound Schedd was inserted into an internal list of jobs, the Schedd subsequently attempted to fetch the job from the list, and was unable to find it. This is due to an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the remote inbound Schedd machine and reissue the command. If the problem persists, contact IBM service.

---

**2539-844**     **The selected inbound Schedd *machine\_name* is in the drained state.**

**Explanation:** The remote inbound Schedd is in the drained state and cannot accept any new jobs.

**User response:** Retry the command to try another inbound Schedd. Ask the administrator to reconfigure the draining Schedd out of the remote inbound Schedd list.

---

**2539-845**     **The selected inbound Schedd *machine\_name* is not configured to receive remote jobs from cluster *cluster\_name*.**

**Explanation:** The remote cluster does not have the selected Schedd configured to receive remote jobs from the local cluster.

**User response:** Administrators must synchronize the cluster stanzas in the administration file for both remote and local clusters. Both files must have the same Schedd machines listed on inbound Schedds.

---

---

**2539-846** A host name is missing from the remote checkpoint request in cluster *cluster\_name*.

**Explanation:** The checkpoint command was requested to run in the specified remote cluster, but the command syntax is missing a valid host list specification.

**User response:** Verify that the command was specified correctly and that it includes a valid host list entry.

---

**2539-847** The mapped user name *user\_name* is not a valid user in cluster *cluster\_name*. The user mapping failed.

**Explanation:** The command failed because the user mapper installation exit mapped to a user name that is not valid on the local cluster.

**User response:** Report the error to your local cluster administrator.

---

**2539-848** The user mapper in *cluster\_name* failed to map a name in the user list.

**Explanation:** A specified user name in the user list could not be mapped by the user mapper installation exit.

**User response:** Verify that the specified user list entries are correct and retry the command. If the problem persists, report the error to your local cluster administrator.

---

**2539-849** The Schedd failed to send the remote command to the central manager in cluster *cluster\_name*.

**Explanation:** A command that was being sent from the remote inbound Schedd to the central manager in the named remote cluster failed.

**User response:** Review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the command failed.

---

**2539-850** A request to checkpoint job step *step\_name* failed because the remote CkptCmd cannot be sent to the daemon\_name on node *machine\_name*.

**Explanation:** The remote inbound Schedd could not send a checkpoint request to the specified daemon on the named machine for the job step.

**User response:** Review any supplemental messages and the LoadLeveler logs for the named machine in the remote cluster to determine why the request failed.

---

**2539-851** An error occurred processing the remote command in this cluster.

**Explanation:** The local outbound Schedd failed to send a request to a Schedd in a remote cluster.

**User response:** Review any supplemental messages and the LoadLeveler logs in this local cluster to determine why the request failed.

---

**2539-852** The local Schedd failed to connect to the remote inbound schedd in cluster *cluster\_name*.

**Explanation:** The local outbound Schedd failed to send a request to a Schedd in the named remote cluster.

**User response:** Review any supplemental messages and the LoadLeveler logs in this local cluster and the named remote cluster to determine why the request failed.

---

**2539-853** The remote Schedd cannot send parameters to the *daemon\_type*. Will Retry.

**Explanation:** A transaction that was being sent from the remote inbound Schedd to the named daemon in the remote cluster has failed. The transaction will be retried.

**User response:** If the failure is persistent and does not succeed on a subsequent retry, review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the request failed.

---

---

**2539-854**     **An error occurred sending endofrecord. Will Retry.**

**Explanation:** A failure occurred sending the endofrecord in a transaction in the remote cluster. The transaction will be retried.

**User response:** If the failure is persistent and does not succeed on a subsequent retry, review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the request failed.

---

**2539-855**     **The remote Schedd cannot receive acknowledgement from the Schedd. Will Retry.**

**Explanation:** A failure occurred in the remote inbound Schedd when receiving the acknowledgement from another Schedd for a remote command. The transaction will be retried.

**User response:** If the failure is persistent and does not succeed on a subsequent retry, review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the request failed.

---

**2539-856**     **A bad ack (<0) was received while reading the MCluster objects from the Schedd.**

**Explanation:** A failure occurred in the remote inbound Schedd when receiving the acknowledgement from another Schedd for a remote **llq** command. The value for the acknowledgement received was not expected.

**User response:** If the failure is persistent and does not succeed on a subsequent retry, review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the request failed.

---

**2539-857**     **The remote Schedd failed to find the configuration file in cluster *cluster\_name*.**

**Explanation:** The remote Schedd cannot find the LoadLeveler configuration in the named remote cluster for the command.

**User response:** Review any supplemental messages and the LoadLeveler logs in the remote cluster to determine why the request failed to locate the configuration.

---

**2539-858**     **The remote Schedd tried to send the remote request to the *daemon\_type* *retry\_count* times. Giving up.**

**Explanation:** A transaction that was being sent from the remote inbound Schedd to the named daemon in the remote cluster has successively failed a number of times. The command has exceeded the maximum number of retries and will not be attempted again.

**User response:** Review any supplemental messages and the LoadLeveler logs in the remote cluster to determine the reason for the persistent failure.

---

**2539-859**     **The *object\_name* route from the *daemon\_type* failed. Will retry.**

**Explanation:** A failure occurred in the remote inbound Schedd when receiving the named object from the specified daemon. The transaction will be retried.

**User response:** If the failure is persistent and does not succeed on a subsequent retry, review any supplemental messages and the LoadLeveler logs in the remote cluster to determine the reason for the failure.

---

**2539-860**     ***command\_name* cannot create a listen socket.**

**Explanation:** The named command could not create a socket to receive return data from a remote cluster command.

**User response:** Review any supplemental messages and the LoadLeveler logs in the local and remote clusters to determine why the request failed.

---

**2539-861**     **Cannot contact the local outbound Schedd. remote cluster = *cluster\_name*.**

**Explanation:** The LoadLeveler command could not find a remote inbound Schedd for the named remote cluster.

**User response:** Verify that the cluster name specified in the command is a valid remote cluster. Also check the LoadLeveler administration file for the local cluster to determine if the remote cluster has an inbound Schedd defined.

---

**2539-862** Failed to send a RemoteCmdTransaction to the local outbound Schedd *machine\_name*. remote cluster = *cluster\_name*

**Explanation:** The LoadLeveler command could not send a transaction to the local outbound Schedd in the specified cluster.

**User response:** Review any supplemental messages and the LoadLeveler logs in the local and remote clusters to determine why the transaction failed,

---

**2539-863** Cannot read list of file names from the Schedd.

**Explanation:** An error occurred between the Schedd and the **lluserproxy** process while transferring the list of file names to be copied.

**User response:** Examine the Schedd log for details about the error.

---

**2539-864** The number of source files *file\_count* does not match the number of destination files *file\_count*.

**Explanation:** The **lluserproxy** child process received inconsistent information from the Schedd regarding files to be copied. This is due to an internal LoadLeveler error.

**User response:** Recycle LoadLeveler on the Schedd machine and reissue the command. If the problem persists, contact IBM service.

---

**2539-865** The unlink of file *file\_name* failed, **errno** = *error\_number* [*error\_message*].

**Explanation:** The **lluserproxy** process encountered an error while trying to unlink the temporary files used to copy the cluster files.

**User response:** Manually remove the files that were not removed.

---

**2539-866** Cannot open output file *file\_name* (temporary for *file\_name*), **errno** = *error\_number* (*error\_message*).

**Explanation:** An error occurred while trying to open a temporary file.

**User response:** Check the error number and message to determine the appropriate course of action.

---

**2539-867** Cannot allocate the memory required to transmit the output file *file\_name*.

**Explanation:** The **lluserproxy** process encountered a memory error.

**User response:** Retry the command. If the problem persists, contact IBM service.

---

**2539-868** Cannot open the input file *file\_name*, **errno** = *error\_number* (*error\_message*).

**Explanation:** The specified file in the **cluster\_input\_file** keyword cannot be opened.

**User response:** Review the job command file **cluster\_input\_file** keyword and check the error number and message to determine the appropriate course of action.

---

**2539-869** Cannot allocate the memory required to transmit the input file *file\_name*.

**Explanation:** The **lluserproxy** process encountered a memory error.

**User response:** Retry the command. If the problem persists, contact IBM service.

---

**2539-870** Cannot read the user credentials from the Schedd.

**Explanation:** The **lluserproxy** process encountered an error while receiving the user credentials from the Schedd.

**User response:** Retry the command. Examine the Schedd log for additional information.

---

---

2539-871     **Cannot set the uid for the specified user on** *machine\_name*. *error\_message*

**Explanation:** The **lluserproxy** process encountered an error while trying to change to the user credentials.

**User response:** Review the error message returned with the error.

---

2539-872     **Cannot set the user credentials.** *error\_message*

**Explanation:** The **lluserproxy** process encountered an error while trying to change to the user credentials.

**User response:** Review the error message returned with the error.

---

2539-873     **Cannot set the groups for the specified user on** *machine\_name*. *error\_message*

**Explanation:** The **lluserproxy** process encountered an error while trying to change to the user credentials.

**User response:** Review the error message returned with the error.

---

2539-874     **Cannot set the process credentials for the specified user on** *machine\_name*. *error\_message*

**Explanation:** The **lluserproxy** process encountered an error while trying to change to the user credentials.

**User response:** Review the error message returned with the error.

---

2539-875     **The exec of** *program\_name* **failed, errno =** *error\_number* (*error\_message*).

**Explanation:** The **lluserproxy** process encountered an error while trying to change to the user credentials.

**User response:** Review the error message returned with the error.

---

2539-876     **The Schedd on** *machine\_name* **cannot start the lluserproxy process.**

**Explanation:** An error occurred when the Schedd tried to start the **lluserproxy** process.

**User response:** Check the permissions on the **\$RELEASEDIR/lluserproxy** executable. Also examine the Schedd log for additional information.

---

2539-877     **The Schedd on** *machine\_name* **encountered the following error while attempting to transmit the file** *file\_name*:

**Explanation:** An error occurred between the Schedd and the **lluserproxy** process while transferring a file.

**User response:** Review the error message returned with the error.

---

2539-878     **The Schedd on** *machine\_name* **encountered an error during remote job submission parsing.**

**Explanation:** An error occurred between the Schedd and the **lluserproxy** process while parsing the user's job command file.

**User response:** Examine the Schedd log for additional information.

---

2539-879     **The Schedd on** *machine\_name* **cannot write lists of file names to the lluserproxy child process.**

**Explanation:** An error occurred between the Schedd and the **lluserproxy** process while transferring the list of file names to be copied.

**User response:** Examine the Schedd log for details about the error.

---

2539-880     **The Schedd on** *machine\_name* **cannot read the ready flag from the transaction stream for file** *file\_name*.

**Explanation:** An error occurred between the remote Schedd and the local Schedd while transferring the files to be copied.

**User response:** Examine the Schedd logs for details about the error.

---

---

**2539-881**     **The Schedd on *machine\_name* cannot read the ready to receive flag from the lluserproxy child process for file *file\_name*.**

**Explanation:** An error occurred between the Schedd and the lluserproxy process while transferring the files to be copied.

**User response:** Examine the Schedd log for details about the error.

---

**2539-882**     **The Schedd on *machine\_name* cannot transmit the ready status on the transaction stream for file *file\_name*.**

**Explanation:** An error occurred between the remote Schedd and the local Schedd while transferring the files to be copied.

**User response:** Examine the Schedd logs for details about the error.

---

**2539-883**     **The Schedd on *machine\_name* cannot forward the file *file\_name* from the transaction stream to the lluserproxy process.**

**Explanation:** An error occurred between the Schedd and the lluserproxy process while transferring the files to be copied.

**User response:** Examine the Schedd log for details about the error.

---

**2539-884**     **The Schedd on *machine\_name* cannot spawn the process to call *program\_name*, *errno* = *error\_number* (*error\_message*).**

**Explanation:** The Schedd encountered an error trying to spawn the process.

**User response:** Review the error message reported.

---

**2539-885**     **The Schedd on *machine\_name* cannot write the user *user\_name* credentials to the lluserproxy child process.**

**Explanation:** The Schedd encountered an error while trying to send the user credentials to the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-886**     **The Schedd on *machine\_name* cannot read the ready flag from the lluserproxy child process.**

**Explanation:** An error occurred while trying to communicate with the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-887**     **The lluserproxy child process cannot continue on *machine\_name*.**

**Explanation:** The lluserproxy process encountered an error from which it could not recover. lluserproxy processing is exiting.

**User response:** Examine the Schedd log for details about the error.

---

**2539-888**     **The Schedd on *machine\_name* cannot read the error message from the lluserproxy child process.**

**Explanation:** An error occurred during the routing of the error message from the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-889**     **The Schedd on *machine\_name* cannot read the acknowledgement from the lluserproxy child process.**

**Explanation:** An error occurred while trying to communicate with the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

---

**2539-890**     **The lluserproxy child process of the Schedd on *machine\_name* could not copy all files.**

**Explanation:** An error occurred in the lluserproxy process during the copy file process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-891**     **The Schedd on *machine\_name* cannot read the ready to send flag from the lluserproxy child process for file *file\_name*.**

**Explanation:** An error occurred while trying to communicate with the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-892**     **The Schedd on *machine\_name* cannot transmit the ready status on the transaction stream for file *file\_name*.**

**Explanation:** An error occurred between the remote Schedd and the local Schedd while transferring copy files.

**User response:** Examine the Schedd logs for details about the error.

---

**2539-893**     **The Schedd on *machine\_name* cannot read files over the pipe from the lluserproxy process for file *file\_name*.**

**Explanation:** An error occurred while trying to communicate with the lluserproxy process.

**User response:** Examine the Schedd log for details about the error.

---

**2539-894**     **The lluserproxy child process of the Schedd on *machine\_name* could not delete all files.**

**Explanation:** An error occurred in the lluserproxy process during the delete file process.

**User response:** Examine the Schedd log for details about the error.

---

## 2544 Error messages

This topic includes TWS LoadLeveler daemon error messages.

---

### 2544-800 Action Required for Reservation *reservation\_ID*.

**Explanation:** Subject line for mail that notifies the LoadLeveler administrators and the reservation owner when a reservation is about to start and some reserved machines are unavailable.

**User response:** The body of the mail indicates which machines are unavailable and the reason why each machine is unavailable. Consult the messages referenced in the mail to determine the appropriate course of action.

---

### 2544-801 Reservation *reservation\_ID* (*owner=reservation\_owner*) is scheduled to start at *reservation\_start\_time* and one or more reserved resources are not available for use. The following machines are not available:

**Explanation:** A reservation that is about to start cannot make use of all of the machines that it has reserved. A list of the machines that are unavailable to the reservation and the reason why each machine cannot be used follows this message in the e-mail.

**User response:** The action you need to take depends on the reason for each machine being unavailable. Consult the messages referenced in the mail to determine the appropriate course of action.

---

### 2544-802 This machine is not in the Central Manager's machine list.

**Explanation:** The specified machine is not in the LoadLeveler cluster or the machine has not yet been added to the central manager machine list. If **MACHINE\_AUTHENTICATE** is set to **false** in the LoadLeveler configuration file, a machine will not be added to the central manager machine list until a LoadLeveler daemon on the machine contacts the Central Manager. Depending on update intervals in the configuration file, this could take several minutes after the central manager starts up.

**User response:** If the machine is in the cluster, a LoadLeveler administrator may issue the **llctl resume** command on the absent machine to force the machine to contact the central manager immediately.

---

### 2544-803 Startd is not running.

**Explanation:** The central manager knows the machine is part of the cluster, either because it is defined in the LoadLeveler administration file or because the machine had previously contacted the central manager, but sufficient time has passed since the central manager received an update from the **startd** on the machine that central manager has determined the machine is down.

**User response:** If LoadLeveler is running on the absent machine, a LoadLeveler administrator can issue the **llctl resume** command on the absent machine to force the machine to contact central manager.

---

### 2544-804 One or more nonpreemptable steps are running.

**Explanation:** One or more steps that have been made nonpreemptable by a LoadLeveler administrator are running on reserved machines and cannot be preempted to free up the reserved resources.

**User response:** The nonpreemptable steps must be made preemptable by a LoadLeveler administrator and then preempted using the **llpreempt** command or they must be simply canceled, otherwise the steps will continue to use the reserved resources even after the reservation has started.

---

### 2544-805 Startd is in flush state.

**Explanation:** The LoadLeveler administrator flushed the **startd**.

**User response:** A LoadLeveler administrator can issue the **llctl resume** command on the flushed machine to make the **startd** available again.

---

---

**2544-806 Startd is in draining or drained state.**

**Explanation:** The LoadLeveler administrator drained the **startd**

**User response:** A LoadLeveler administrator can issue the **llctl resume** command on the drained machine to make the **startd** available again.

---

**2544-807 Startd is in suspend state.**

**Explanation:** The LoadLeveler administrator suspended the **startd**.

**User response:** A LoadLeveler administrator can issue the **llctl resume** command on the suspended machine to make the **startd** available again.

---

**2544-808 Mode Reset For Reservation *reservation\_ID*.**

**Explanation:** The subject line for mail notifying LoadLeveler administrators and the reservation owner when a reservation's mode has been reset after a central manager failure.

**User response:** The body of the mail contains details indicating what action to taken.

---

**2544-809 Reservation *reservation\_ID* was received from the Schedd on *schedd\_hostname* in state *reservation\_state* with mode *previous\_reservation\_mode* after a Central Manager restart. The reservation's mode has been set to *new\_reservation\_mode*. The mode can be restored to its previous value using the **llchres** command.**

**Explanation:** After a central manager restart, the central manager received a reservation from the schedd whose mode was SHARED, REMOVE\_ON\_IDLE, or both. During the time following a central manager restart, the central manager cannot yet be aware of all machines, job steps, and reservations that were in the cluster prior to the failure. The reservation's mode is automatically reset to avoid the central manager making a decision to share a reservation's resources or remove a reservation before the central manager has all of the needed information.

**User response:** The mode may be restored to its previous value by a LoadLeveler administrator or by the owner of the reservation using the **llchres** command or the **ll\_change\_reservation** API.

---

**2544-810 Reservation *reservation\_ID* Has Been Removed.**

**Explanation:** The subject line for mail notifying LoadLeveler administrators and the reservation owner when a reservation is removed by LoadLeveler.

**User response:** The body of the mail contains additional details.

---

**2544-811 Reservation *reservation\_ID* has been removed from the LoadLeveler cluster in order to resolve an internal conflict.**

**Explanation:** The central manager has two or more reservations which claim to reserve the same resources. This can happen if both the central manager and a schedd fail. During the time between the central manager restart and the schedd becoming available, the central manager is not aware of that schedd's reservations and may grant a new reservation request it would not otherwise have granted. Once the central manager is aware of this conflict, the only way to safely continue is for the central manager to honor only one of the conflicting reservations and remove any others.

**User response:** A new reservation can be made again using the **llmkres** command or the **ll\_make\_reservation** API.

---

| **2544-812 The following Blue Gene components are not in the UP state.**

| **Explanation:** The listed Blue Gene components are not in the UP state. They could be down, missing, or in error.

| **User response:** If the problem persists, report it to the Blue Gene system administrator.

---

---

**2544-813**     **The following nonpreemptable steps are running:**

**Explanation:** The listed nonpreemptable steps are running in the reservation. The nonpreemptable steps cannot be preempted by the reservation and, therefore, will consume reserved resources. If this is a problem, the steps can be changed to be preemptable through the **lmodify** command by LoadLeveler administrators, then the steps can be manually preempted through the **lpreempt** command.

**User response:** Ask the LoadLeveler administrator to remove the steps, if necessary.

---

**2544-850**     **Cannot allocate storage for array of machines.**

**Explanation:** The program could not allocate virtual memory.

**User response:** Verify that the machine has a reasonable amount of virtual memory available for the LoadLeveler processes. If the problem persists, then contact IBM service.

---

**2544-851**     **Wall\_clock\_limit not specified, but is required when using this scheduler.**

**Explanation:** No value could be found in the job command file, or in the administration file, for **wall\_clock\_limit**. This limit must be specified when using this scheduler. The job step will not be run.

**User response:** Specify a value for this limit in either the job command file you are submitting, or the administration file. Refer to *TWS LoadLeveler: Using and Administering* for more information on **wall\_clock\_limit**.

---

**2544-852**     **The default scheduler does not support multiple tasks per node.**

**Explanation:** The default LoadLeveler scheduler does not support the scheduling of multiple tasks on a node, but this has been requested in the submitted job. The job step will not be run.

**User response:** Use the Backfill (or some other) scheduler that supports multiple tasks per node. Refer to *TWS LoadLeveler: Using and Administering* for more information on the **scheduler\_type** keyword in the configuration file.

---

**2544-853**     **The default scheduler does not support multiple adapter requirements.**

**Explanation:** The default LoadLeveler scheduler does not support multiple **Adapter** requirements specified in multiple **network** keywords (as in the submitted job). The job step will not be run.

**User response:** Use the Backfill (or some other) scheduler that supports multiple adapter requests. Refer to *TWS LoadLeveler: Using and Administering* for more information on the **scheduler\_type** keyword in the configuration file.

---

**2544-854**     **The default scheduler does not support interactive jobsteps.**

**Explanation:** The default LoadLeveler scheduler does not support the scheduling of interactive jobsteps. The job step will not be run.

**User response:** Use the Backfill (or some other) scheduler that supports interactive job steps. Refer to *TWS LoadLeveler: Using and Administering* for more information on the **scheduler\_type** keyword in the configuration file.

---

**2544-855**     **Class *class name* with *number of defined initiators* initiators defined and *number of used initiators* currently in use is too busy to run Step *step id* requiring *number of initiators* initiators.**

**Explanation:** The specified interactive job step could not be scheduled because there were not enough free initiators available.

**User response:** Either increase the number of initiators, or wait until some jobsteps of this class complete, then resubmit the job.

---

**2544-856**     **User *user name* running *number of steps* steps with maximum of *max number of steps* when Step *step id* is being considered.**

**Explanation:** The specified user has reached the maximum number of steps allowed by the **maxjobs** keyword in the user stanza in the administration file. The jobstep will not be run.

**User response:** The user can wait until some of the jobs complete, or the administrator can increase the value for the **maxjobs** keyword.

---

**2544-857**     **Group** *group name* **running** *number of steps* **steps with maximum of** *maximum steps* **when Step** *step id* **is being considered.**

**Explanation:** The specified group has reached the maximum number of steps allowed by the **maxjobs** keyword in the group stanza in the administration file. The step will not be run.

**User response:** The user can wait until some of the group's jobs complete, or the administrator can increase the **maxjobs** keyword.

---

**2544-858**     **Class** *class name* **is busy: steps running=** *number of steps*, **max=** *maximum steps* **when Step** *step id* **is being considered.**

**Explanation:** The specified class has reached the maximum number of steps allowed by the **maxjobs** keyword in the class stanza in the administration file. The step will not be run.

**User response:** The user can wait until some of the class's jobs complete, or the administrator can increase the **maxjobs** keyword.

---

**2544-859**     **Schedd** *machine name* **is running** *number of steps* **steps with maximum of** *maximum steps* **when Step** *step id* **is being considered.**

**Explanation:** The **schedd** has reached the maximum number of steps allowed by the **max\_jobs\_scheduled** keyword in the administration file's machine stanza.

**User response:** The user can wait until some of the **schedd**'s jobs complete, or the administrator can increase the **max\_jobs\_scheduled** keyword.

---

**2544-860**     **Machine** *machine name* **in hostlist is not in the cluster when Step** *step id* **is being considered.**

**Explanation:** The specified machine name does not match any known machines in the cluster. The step will not be run.

**User response:** Either add the specified machine to the cluster, or remove it from the hostlist, then resubmit the job.

---

**2544-861**     **Machine** *machine name* **in hostlist is unavailable when Step** *step id* **is being considered.**

**Explanation:** The specified machine is not available. The step will not be run.

**User response:** Either wait until that machine becomes available, or remove it from the hostlist, then resubmit the job.

---

**2544-862**     **Machine** *machine name* **is running steps, Step** *step id* **asks for not shared nodes.**

**Explanation:** A machine in the hostlist is already busy running steps, but the step being considered is set not to share nodes with other tasks (it is specified as **not\_shared**). The step will not be run.

**User response:** Either wait until the specified machine frees up, or remove the machine from the hostlist, then resubmit the job.

---

**2544-863**     **Machine** *machine name* **is busy running steps and is being used exclusively when Step** *step id* **is being considered.**

**Explanation:** A machine in the hostlist is already busy running steps, and has been allocated to another job exclusively. The step will not be run.

**User response:** Either wait until that machine frees up, or remove it from the hostlist, then resubmit the job.

---

---

**2544-864**     **Machine *machine name* is running number of steps steps with max\_starters of maximum steps when Step step id is being considered.**

**Explanation:** The machine has reached the maximum number of steps allowed by the **max\_starters** constraint. The **max\_starters** value listed in the message may be less than the value specified in the configuration file because the value was reduced to accommodate the scheduling of higher priority jobs in a future time slot. The specified step will not run.

**User response:** You can wait until some of the machine's jobs complete, or the administrator can increase the **max\_starters** keyword or relax **START\_CLASS** constraints for **allclasses**.

---

**2544-865**     **Machine *machine name* in hostlist is not currently allowed to run steps when Step step id is being considered.**

**Explanation:** When the specified step was being considered, the specified machine was prevented from running jobs by the coding in the configuration file's execution window. The step will not be run.

**User response:** Either modify the execution window for the given machine, or remove the machine from the hostlist, then try again.

---

**2544-867**     **Machine *machine name* does not have free adapter to run the Step step id.**

**Explanation:** The adapter on the specified machine is in use.

**User response:** Wait until the jobsteps using the adapter complete, then resubmit the job.

---

**2544-868**     **Step step id cannot be scheduled at this time because it requires resources already reserved for a higher priority step.**

**Explanation:** The specified step has been superseded by a higher priority step, which required some of the same resources.

**User response:** Try running the jobstep again.

---

**2544-869**     **Step step id was marked "not runnable" at time due to dependency.**

**Explanation:** The specified step cannot run because its dependency condition evaluated to false.

**User response:** Fix, or eliminate, the failing dependency condition.

---

**2544-870**     **Step step id was not considered to be run in this scheduling cycle due to its relatively low priority or because there are not enough free resources.**

**Explanation:** The specified step was not considered because higher priority jobs already consumed all of the available resources.

**User response:** Increase the priority of the job step, or wait until higher priority job steps complete, then resubmit the job. Also, verify that you are requesting valid resources (machines, adapters, classes, and so on).

---

**2544-871**     **The default scheduler does not support task geometry function.**

**Explanation:** The default LoadLeveler scheduler does not support task geometry specification in the job just submitted. The job step will not be run.

**User response:** Use the Backfill (or some other) scheduler that supports task geometry function. Refer to *TWS LoadLeveler: Using and Administering* for more information on the **scheduler\_type** keyword in the configuration file.

---

**2544-872**     **The default scheduler does not support the blocking function.**

**Explanation:** The default LoadLeveler scheduler does not support the blocking specification in the recently submitted job.

**User response:** Use the Backfill (or some other) scheduler that supports the blocking function. Refer to *TWS LoadLeveler: Using and Administering* for more information on the **scheduler\_type** keyword in the configuration file.

---

---

**2544-874**      **Unable to find a common switch fabric among the machines in the hostlist.**

**Explanation:** LoadLeveler cannot find a switch fabric that connects all machines in the hostlist for this jobstep. The jobstep cannot be scheduled at this time.

**User response:** Determine why a common fabric cannot be found, or wait until all switch fabrics are available and resubmit the job.

---

**2544-875**      **Interactive step cannot run on machine *hostname*, machine mode is *machine\_mode*.**

**Explanation:** One of the machines in specified in the hostlist for the jobstep is not configured to accept interactive jobsteps. The jobstep cannot be scheduled at this time.

**User response:** Change the hostlist to exclude the machine, or reconfigure the machine to accept interactive jobsteps and resubmit the job.

---

**2544-876**      **The default scheduler does not support the restart on same nodes option.**

**Explanation:** The default LoadLeveler scheduler does not support the `restart_on_same_nodes` specification in the recently submitted job.

**User response:** Use the Backfill (or some other) scheduler that supports `restart_on_same_nodes`. Refer to *TWS LoadLeveler: Using and Administering* for more information on the `scheduler_type` keyword in the configuration file.

---

**2544-877**      **Machine *hostname* has *number* steps running. Scheduling a new step *new\_step\_number* would exceed the number of allowed steps *maximum allowable steps*.**

**Explanation:** With WLM enabled a single machine can only run a maximum number of steps. A new step cannot be scheduled to run.

**User response:** Job will remain idle until running jobs complete.

---

**2544-878**      **The default scheduler does not support adapter requests for more than one instance.**

**Explanation:** The default LoadLeveler scheduler does not support adapter requests for more than one instance in the recently submitted job.

**User response:** Use the Backfill (or some other) scheduler that supports the adapter requests for multiple instances. Refer to *TWS LoadLeveler: Using and Administering* for more information on the `scheduler_type` keyword in the configuration file.

---

**2544-879**      **Machine *machine\_name* requested by job step *step\_ID* is not reserved by reservation *reservation\_ID*. The job step cannot be run.**

**Explanation:** The job step is bound to a reservation and has requested a machine that is not in the reservation. Therefore, the reservation does not have enough resources to run the job step.

**User response:** Either replace the machine with one that is in the reservation and resubmit the job, or unbind the job from the reservation so that it can run outside of the reservation.

---

**2544-880**      **Jobs have been received from machine *machine\_name* which is using a backlevel protocol (*protocol\_level*). All job steps received from the machine will be marked non-preemptable.**

**Explanation:** The specified machine is running a protocol level that does not support preemption. Job steps received from the machine cannot be preempted.

**User response:** Upgrade LoadLeveler on the specified machine to a version that supports preemption.

---

**2544-881**      **User *user\_name* in Class *class\_name* is busy: steps running=*number\_of\_steps\_running*, max=*maximum\_number\_of\_steps\_allowed* when Step *step\_ID* is being considered.**

**Explanation:** The specified class-user combination has reached the maximum number of job steps allowed by the `maxjobs` keyword in the user stanza in the class stanza of the administration file. The step will not run.

**User response:** The user can wait until some of the class's jobs complete or the administrator can increase the **maxjobs** keyword for the class-user combination.



---

## Accessibility features for TWS LoadLeveler

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use information technology products successfully.

---

### Accessibility features

The following list includes the major accessibility features in IBM TWS LoadLeveler. These features support:

- Keyboard-only operation.
- Interfaces that are commonly used by screen readers.
- Keys that are tactilely discernible and do not activate just by touching them.
- Industry-standard devices for ports and connectors.
- The attachment of alternative input and output devices.

**Note:** The **IBM Cluster Information Center** and its related publications are accessibility-enabled for the IBM Home Page Reader. You can operate all features using the keyboard instead of the mouse.

---

### Keyboard navigation

This product uses standard Microsoft® Windows® navigation keys.

---

### IBM and accessibility

See the *IBM Accessibility Center* at <http://www.ibm.com/able> for more information about the commitment that IBM has to accessibility.



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## Glossary

This glossary includes terms and definitions for IBM Tivoli Workload Scheduler (TWS) LoadLeveler. The following cross-references are used in this glossary:

- See** Refers the reader to (a) a term that is the expanded form of an abbreviation or acronym or (b) a synonym or more preferred term.
- See also** Refers the reader to a related term.
- Contrast with** Refers the reader to a term that has an opposed or substantively different meaning.

To view glossaries for other IBM products, go to <http://www-306.ibm.com/software/globalization/terminology/index.html>.

### A

**AFS.** A distributed file system for large networks that is known for its ease of administration and expandability.

**AIX.** A UNIX operating system developed by IBM that is designed and optimized to run on POWER microprocessor-based hardware such as servers, workstations, and blades.

**authentication.** The process of validating the identity of a user or server.

**authorization.** The process of obtaining permission to perform specific actions.

### B

**Berkeley Load Average.** The average number of processes on the operating system's ready-to-run queue.

### C

**C language.** A language used to develop application programs in compact, efficient code that can be run on different types of computers with minimal change.

**client.** A system or process that is dependent on another system or process (usually called the *server*) to provide it with access to data, services, programs, or resources.

**cluster.** A collection of complete systems that work together to provide a single, unified computing capability.

### D

**daemon.** A program that runs unattended to perform continuous or periodic functions, such as network control.

**DCE.** See *Distributed Computing Environment*.

**default.** Pertaining to an attribute, value, or option that is assumed when none is explicitly specified.

**DFS™.** See *Distributed File System*.

**Distributed Computing Environment (DCE).** In network computing, a set of services and tools that supports the creation, use, and maintenance of distributed applications across heterogeneous operating systems and networks.

**Distributed File Service (DFS).** A component of a Distributed Computing Environment (DCE) that enables a single, integrated file system to be shared among all DCE users and host computers in a DCE cell. DFS prevents DCE users from simultaneously modifying the same information.

### H

**host.** A computer that is connected to a network and provides an access point to that network. The host can be a client, a server, or both a client and server simultaneously.

### L

**LAPI.** See *low-level application programming interface*.

**low-level application programming interface (LAPI).** An IBM message-passing interface that implements a one-sided communication model.

### M

**MCM.** See *multiple chip module*.

**memory affinity.** A feature available in AIX to allocate memory attached to the same multiple chip module (MCM) on which the process runs. Memory affinity improves the performance of applications on IBM System p™ servers.

**menu.** A displayed list of items from which a user can make a selection.

**Message Passing Interface (MPI).** A library specification for message passing. MPI is a standard application programming interface (API) that can be used with parallel applications and that uses the best features of a number of existing message-passing systems.

**Motif.** User interface software, from Open Systems Foundation, for use with the X Window System.

**MPI.** See *Message Passing Interface*.

**MPICH.** A portable implementation of the Message Passing Interface (MPI).

**MPICH-GM.** A low-level message-passing system for Myrinet networks.

**multiple chip module (MCM).** The fundamental, processor, building block of IBM System p servers.

## N

**network.** In data communication, a configuration in which two or more locations are physically connected for the purpose of exchanging data.

**Network File System (NFS).** A protocol, developed by Sun Microsystems, Incorporated, that enables a computer to access files over a network as if they were on its local disks.

**NFS.** See *Network File System*.

**node.** A computer location defined in a network.

## P

**parameter.** A value or reference passed to a function, command, or program that serves as input or controls actions. The value is supplied by a user or by another program or process.

**peer domain .** A set of nodes configured for high availability by the configuration resource manager. Such a domain has no distinguished or master node. All nodes are aware of all other nodes, and administrative commands can be issued from any node in the domain. All nodes also have a consistent view of the domain membership.

**process.** A separately executable unit of work.

## R

**rCxt block.** See *remote context blocks*.

**RDMA.** See *Remote Direct Memory Access*.

**Reliable Scalable Cluster Technology (RSCT).** A set of software components that together provide a comprehensive clustering environment for AIX and Linux. RSCT is the infrastructure used by a variety of IBM products to provide clusters with improved system availability, scalability, and ease of use.

**remote context block (rCxt block).** An interprocess communication buffer used by the low-level application programming interface (LAPI) for Remote Direct Memory Access (RDMA).

**Remote Direct Memory Access (RDMA).** A communication technique in which data is transmitted from the memory of one computer to that of another without passing through a processor. RDMA accommodates increased network speeds.

**resource set (RSet).** A data structure in AIX 5L used to represent physical resources such as processors and memory. AIX uses resource sets to restrict a set of processes to a subset of the system's physical resources.

**RSCT.** See *Reliable Scalable Cluster Technology*.

**RSCT peer domain.** See *peer domain*.

**RSet.** See *resource set*.

## S

**server.** In a network, hardware or software that provides facilities to clients. Examples of a server are a file server, a printer server, or a mail server.

**shell.** A software interface between users and an operating system. Shells generally fall into one of two categories: a command line shell, which provides a command line interface to the operating system; and a graphical shell, which provides a graphical user interface (GUI).

**SMT.** See *symmetric multithreading*.

**symmetric multithreading (SMT).** Pertaining to a processor design that combines hardware multithreading with superscalar processor technology. Using SMT, a single physical processor emulates multiple processors by enabling multiple threads to issue instructions simultaneously during each cycle.

**system administrator.** The person who controls and manages a computer system.

## T

**TCP.** See *Transmission Control Protocol*.

**Transmission Control Protocol (TCP).** A communication protocol used in the Internet and in any network that follows the Internet Engineering Task Force (IETF) standards for internetwork protocol. TCP

provides a reliable host-to-host protocol in packet-switched communication networks and in interconnected systems of such networks.

## U

**UDP.** See *User Datagram Protocol*.

**User Datagram Protocol (UDP).** An Internet protocol that provides unreliable, connectionless datagram service. It enables an application program on one machine or process to send a datagram to an application program on another machine or process.

## W

**working directory.** The active directory. When a file name is specified without a directory, the current directory is searched.

**workstation.** A configuration of input/output equipment at which an operator works. A workstation is a terminal or microcomputer at which a user can run applications and that is usually connected to a mainframe or a network.



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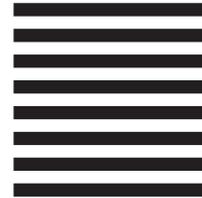
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