



IBM LoadLeveler for AIX

GA22-7277-00

**Diagnosis and Messages Guide**

Version 2 Release 1





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## **Diagnosis and Messages Guide**

Version 2 Release 1

**Note:**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

**First Edition (October 1998)**

This edition applies to Version 2, Release 1.0, of IBM LoadLeveler for AIX, program number 5765–D61, and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters.

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# Contents

<b>Notices</b> .....	v
<b>Trademarks</b> .....	vii
<b>About This Book</b> .....	ix
Who Should Use This Book .....	ix
How to Use This Book .....	ix
How this Book is Organized .....	ix
Typographic Conventions .....	ix
Related Information .....	x
Accessing This Book off the World Wide Web .....	x
Accessing LoadLeveler Documentation Online .....	x
<b>LoadLeveler Messages</b> .....	1
<b>Error Logging Facility</b> .....	75
Error Logging Overview .....	75
How Error Log Events Are Classified .....	75
What Events are Recorded .....	76
Viewing LoadLeveler Error Log Reports .....	76
Clearing All LoadLeveler Error Log Entries .....	76
Error Notification .....	76
Sample Error Log .....	76
Possible Causes for LoadLeveler Errors .....	77
<b>Glossary</b> .....	83



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LoadLeveler incorporates Condor, which was developed at the University of Wisconsin-Madison, and uses it with the permission of its authors.



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## About This Book

This book is designed for any user of LoadLeveler who needs to resolve a system message and respond to that message. This book lists all of the error messages generated by the LoadLeveler software and its components and describes a likely solution for each message.

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## Who Should Use This Book

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

---

## How to Use This Book

This book contains a listing of all error messages related to the operation and use of LoadLeveler. As such, it is designed to be used as a *reference* manual; that is, it's purpose is to provide the user with a quick place to look up error messages received from LoadLeveler and provide guidance and suggestions for dealing with such errors. This book only contains **error** messages; informational messages are not included.

## How this Book is Organized

This book contains the following information:

- “LoadLeveler Messages” on page 1 lists the LoadLeveler error messages in chronological order, with debugging information included for each.
- “Error Logging Facility” on page 75 describes the error logging and debugging procedures for LoadLeveler.

A glossary and index are also included.

## Typographic Conventions

This book uses the following typographic conventions:

Type Style	Used For
<b>bold</b>	<b>Bold</b> words or characters represent system elements that you must use literally, such as command names, program names, file names, and flag names. <b>Bold</b> words also indicate the first use of a term included in the glossary.
<i>italic</i>	<i>Italic</i> words or characters represent variable values that you must supply. <i>Italics</i> are also used for book titles and for general emphasis in text.
Constant width	Examples and information that the system displays appear in constant width typeface.

---

## Related Information

In addition to this publication, the following books are also part of the LoadLeveler library:

- *Using and Administering*, SC22-7311-00
- *Installation Memo*, G110-0642-00

## Accessing This Book off the World Wide Web

You can view or download this book (in PDF format) from the World Wide Web using the following URL:

[http://www.rs6000.ibm.com/resource/aix\\_resource/sp\\_books/LoadLeveler](http://www.rs6000.ibm.com/resource/aix_resource/sp_books/LoadLeveler)

## Accessing LoadLeveler Documentation Online

IBM ships on the product media manual pages, HTML files, and PDF files. In order to use these files you must install the appropriate file sets. For more information, see *LoadLeveler Installation Memo*.

To view the LoadLeveler books in HTML format, you need access to an HTML document browser such as Netscape. Once you install the HTML files, an index to the LoadLeveler books is found in **/usr/lpp/loadL/html/lbooks.html**.

You can also view the LoadLeveler books from the SP Resource Center, which is available under the Parallel Systems Support Programs (PSSP) or as a separately installed program. You invoke the Resource Center from PSSP by entering **resource\_center**. To invoke the Resource Center from the product CD, see the **readme.txt** file.

To view the LoadLeveler books in PDF format, you need access to the Adobe Acrobat Reader 3.0.1. The Acrobat Reader is shipped with AIX Version 4.3 Bonus Pack and is also freely available for downloading from the Adobe web site at URL <http://www.adobe.com>.

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## LoadLeveler 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:** Check that the directory exist and the user has permission to access the directory.

---

**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:** Check that the directory and file exist and the user has permission to access the directory and the file.

---

**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:** Check that the directory does not already exist and that the specified user has permission to create the directory.

---

**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:** Check that the directory and file exist and the user has permission to access the directory and the file.

---

**2512-006 Cannot continue.**

**Explanation:** A error occurred while running the specified command and the command was unable to recover.

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

---

**2512-007 LOADL\_ADMIN not specified in configuration file!**

**Explanation:** List of one or more LoadLeveler administrators does not exist in LoadL\_config file.

**User Response:** Add a LOADL\_ADMIN entry to LoadL\_config containing one or more administrator userids.

---

**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 problem persists, contact IBM service.

---

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

**Explanation:** A system call to write to the specified file failed.

**User Response:** Check that the file has write permissions and the file system is not full.

---

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

**Explanation:** The command was unable to contact or send data to the LoadL\_schedd daemon.

**User Response:** Check that the LoadL\_schedd daemon is running on the specified host and 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/user list to the command.

---

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

**Explanation:** The command was unable to contact the LoadL\_schedd daemon.

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

---

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

**Explanation:** The command was unable to open or read the LoadLeveler configuration files.

**User Response:** Check that all configuration and admin files exist and the user has access to the files.

---

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

**Explanation:** The specified command was unable to 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 a syntax error in one of the configuration files.

**User Response:** Check that all configuration and admin files exist and the user has access to the files. 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 issuing the command is not listed as an administrator in the LoadLeveler configuration file.

**User Response:** Add the user to the LOADL\_ADMIN list in the config file or have an administrator issue the command.

---

**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:** Check that the specified file has been installed in the specified directory and has the correct permissions.

---

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

**Explanation:** A LoadLeveler daemon or command detected internal data corruption and terminated.

**User Response:** If 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:** stat() returned a failure code for named file. The stat system call failed for the specified file.

**User Response:** Check that the file exists and has adequate permissions.

---

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

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

**User Response:** Check that the file exists and has adequate permissions.

---

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

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

**User Response:** Check that the directory and file exist and the user has permission to access the directory and the file.

---

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

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

**User Response:** Check that the directory and file exist and the user has permission to access the directory and the file.

---

**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 non-zero 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:** Check that the job command file exists and the user has permission to access the directory and the file. If a submit filter is configured, contact 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:** Check that the job command file exists and the user has permission to access the directory and the file. If a submit filter is configured, contact LoadLeveler administrator who provided the submit filter to 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 #@ and no statements are in the file.

**User Response:** Correct the command file as required to correctly identify LoadLeveler commands and 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. At least one queue keyword is required in a LoadLeveler job.

**User Response:** Correct the command file and 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 and 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 and 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 and 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 which accepts only one value.

**User Response:** Correct the command file and 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 command file and resubmit the job.

---

**2512-064 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 and 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 command file and 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:** Check that the macro is correctly defined in the job command file and resubmit the job.

---

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

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

**User Response:** Correct the job command file and resubmit the job.

---

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

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

**User Response:** Correct the command file and resubmit the job.

---

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

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

**User Response:** Correct the job command file and resubmit the job.

---

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

**Explanation:** The |, <, >, or ; characters are not allowed in the name of the notify user.

**User Response:** Correct the job command file and resubmit the job.

---

---

**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 and resubmit the job.

---

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

**Explanation:** An error occurred while processing the LoadLeveler administration file.

**User Response:** Resubmit the job. If problem persists, contact IBM service.

---

**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 specified for this user.

**User Response:** Take one of the following actions: specify a class in the job command file that satisfies the job's resource limits; adjust the resource limits specified in the job command file; 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: specify a valid group for the user in the job command file; have the LoadLeveler administrator allow the user in the specified group; 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: specify a valid class for the user in the job command file; have the LoadLeveler administrator allow the user to use the specified class; have the LoadLeveler administrator change the default class for 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: specify a valid class for the group or a valid group for the class in the job command file; have the LoadLeveler administrator allow the group to use the specified class; 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 this 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 within the range of 0 and 255.

**User Response:** Correct the job command file and 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 within the range of 0 and 255.

**User Response:** Correct the job command file and 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 `.` Multiple expressions must be separated by logical operators `&&` or `||`.

**User Response:** Correct the job command file and 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 `.` Multiple expressions must be separated by logical operators `&&` or `||`.

**User Response:** Correct the job command file and 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) cannot be either T or F.

**User Response:** Correct the job command file and 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 and 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 `.` Multiple expressions must be separated by logical operators `&&` or `||`.

**User Response:** Correct the job command file and 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 a requirements or preferences statement.

**User Response:** Correct the job command file and resubmit the job.

---

---

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

**Explanation:** The command was unable to determine the current working directory. The default for the "initialdir" keyword is the current working directory.

**User Response:** Correct the command file and resubmit the job.

---

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

**Explanation:** The command detected internal data corruption and terminated.

**User Response:** If the problem persists contact IBM service.

---

**2512-096 This non-AIX version of LoadLeveler does not support check pointing.**

**Explanation:** Check pointing is only supported on AIX versions of LoadLeveler.

**User Response:** Correct the job command file and resubmit the job.

---

**2512-097 This non-AIX version of LoadLeveler does not support parallel job.**

**Explanation:** Parallel jobs are only supported on AIX versions of LoadLeveler.

**User Response:** Correct the job command file and resubmit the job.

---

**2512-098 This non-AIX version of LoadLeveler does not support PVM3 jobs.**

**Explanation:** PVM3 jobs are only supported on AIX versions of LoadLeveler.

**User Response:** Correct the job command file and resubmit the job.

---

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

**Explanation:** Check pointing requires that the executable be linked with the check pointing library.

**User Response:** Link edit the executable with the correct version of the check pointing library and resubmit the job.

---

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

**Explanation:** CkptVersion cannot be explicitly specified in the requirements statement. If checkpointing is requested in the job command file then CkptVersion is implicitly added to the requirements statement by LoadLeveler.

**User Response:** Remove the CkptVersion expression from the requirements statement and resubmit the job.

---

**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 statements and an adapter keyword in the requirements statement.

**User Response:** The network statement is the preferred method for requesting adapters. Remove the adapter expression from the requirements statement and 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 and resubmit the job.

---

---

**2512-109 The *keyword* LoadLeveler keyword is not valid for an NQS job:**

**Explanation:** The specified keyword is not allowed in a job command file for a job that is to be routed to NQS. The supported level of NQS does not have an option equivalent to this keyword.

**User Response:** Correct the job command file and resubmit the job.

---

**2512-110 The NQS\_submit keyword must be specified for class *class\_name*.**

**Explanation:** The specified class has "NQS\_class=true" but the class does not have the NQS\_submit keyword which specifies the NQS queue for job submission.

**User Response:** Have the LoadLeveler administrator correct the administration file and resubmit the job.

---

**2512-111 The NQS\_query keyword must be specified for class *class\_name*.**

**Explanation:** The specified class has "NQS\_class=true" but the class does not have the NQS\_query keyword which specifies the NQS queue for job monitoring.

**User Response:** Have the LoadLeveler administrator correct the administration file and resubmit the job.

---

**2512-112 The NQS keyword *keyword\_value* is missing a required value.**

**Explanation:** The NQS keyword requires a value.

**User Response:** Correct the job command file and 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 problem persists, contact IBM service.

---

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

**Explanation:** The submit command was unable to connect to a LoadLeveler schedd machine.

**User Response:** Check that a LoadL\_schedd daemon is running on this machine or on at least one public scheduling machine. Check 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 was either unable to connect or send the job data to a LoadLeveler schedd daemon.

**User Response:** Check that a LoadL\_schedd daemon is running on this machine or on at least one public scheduling machine. Check 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 check pointing requires the CHKPT\_FILE or CHKPT\_DIR environment variables to be set.

**User Response:** Set either variable and resubmit the job command file.

---

---

**2512-118 A `job_type = parallel with checkpoint = system_initiated` is not valid.**

**Explanation:** A parallel LoadLeveler job may not use system initiated check pointing.

**User Response:** Correct the job command file and resubmit the job command file.

---

**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:** Logon as a different user and resubmit the job command file.

---

**2512-120 The directory `directory_name` does not exist.**

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

**User Response:** Create the directory with the proper access permissions or change the directory specified in the job command file and 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 that cannot be evaluated or is not a valid date.

**User Response:** Correct the job command file and 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:** Check that the user has read access to the `/etc/passwd` file and there is an entry in `/etc/passwd` for the specified user.

---

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

**Explanation:** A failure occurred during macro processing. 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:** The step names in the job command file must be unique.

**User Response:** Correct the job command file and 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 and resubmit the job.

---

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

**Explanation:** This job type or job command file requires the specified keyword.

**User Response:** Correct the job command file and resubmit the job.

---

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

**Explanation:** The specified keyword was not found in the job command file.

**User Response:** Correct the job command file and resubmit the job.

---

---

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

**Explanation:** The submit command detected internal data corruption of the job name.

**User Response:** If problem persists, contact IBM service.

---

**2512-129 The NQS keywords *keyword1* and *keyword2* are in conflict.**

**Explanation:** Two of the NQS keywords are in conflict with each other.

**User Response:** Correct the job command file and resubmit the job.

---

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

**Explanation:** The submit command detected internal data corruption of the configuration data.

**User Response:** If 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 statements refers to a machine on which another step will run. In order to evaluate the requirements statement, the referenced step must run prior to the referencing step. A dependency statement is necessary to insure the steps are run in the proper order.

**User Response:** Add a dependency statement to the referencing step.

---

**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 and resubmit the job.

---

**2512-134 The *keyword\_value* *network\_type* or *adapter\_name* are not defined in an adapter stanza.**

**Explanation:** A network statement or an adapter requirement referenced a *network\_type* or *adapter\_name* that was not found in the administration file

**User Response:** Either change the *network\_type/adapter\_name* in the job command file or have the LoadLeveler administration define the *network\_type/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 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 and 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 command file and resubmit the job.

---

**2512-139** The *keyword* keyword is not valid for *job\_type = pvm3* job steps.

**Explanation:** This keyword is not valid when the job type is pvm3.

**User Response:** Correct the command file and resubmit the job.

---

**2512-140** The *keyword* keyword is only valid for *job\_type = pvm3* job steps.

**Explanation:** This keyword is only valid when the job type is pvm3.

**User Response:** Correct the command file and resubmit the job.

---

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

**Explanation:** Only one keyword type is allowed in the keyword statement.

**User Response:** Correct the command file and resubmit the job.

---

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

**Explanation:** Only the Adapter = = is allowed in the keyword statement.

**User Response:** Correct the command file and resubmit the job.

---

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

**Explanation:** The adapter name in the Adapter keyword is not valid.

**User Response:** Correct the command file and 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 a minimum and maximum value specified on the node keyword are not equal to each other.

**User Response:** Correct the command file and resubmit the job.

---

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

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

**User Response:** Correct the command file and resubmit the job.

---



---

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

**Explanation:** This keyword is not valid when the job type is serial.

**User Response:** Correct the command file and resubmit the job.

---

**2512-150** Not enough available filesystem space for *transfer\_data*. Transfer from *host* aborted.

**Explanation:** Not enough available filesystem space to write transferred data.

**User Response:** Check `statvfs()` man pages for possible causes of failure.

---

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

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

**User Response:** Check communication paths to that host.

---

**2512-152** GLOBAL\_HISTORY is not specified in config file.

**Explanation:** GLOBAL\_HISTORY directory does not exist in `LoadL_config` file and none was specified as a command line parameter to `llacctmrg`.

**User Response:** Add the directory where the global history file is to be copied in the GLOBAL\_HISTORY entry of `LoadL_config` or specify the directory as a command parameter to `llacctmrg`.

---

**2512-282** A *userlist*, *hostlist* or *joblist* must be specified.

**Explanation:** Data missing.

**User Response:** Specify a *userlist*, *hostlist* or *joblist* with `llcancel`.

---

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

**Explanation:** This command has detected serious internal errors and can not continue.

**User Response:** Make sure that LoadLeveler is running and correctly configured.

---

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

**Explanation:** Unable to obtain information about machines in the LoadLeveler cluster from the central manager.

**User Response:** Check to see if the central manager host is up and if the `LoadL_negotiator` is running on it.

---

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

**Explanation:** No class information found in the LoadLeveler administration file.

**User Response:** Make sure that LoadLeveler is running and correctly configured.

---

**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 name of the `LoadL_schedd` hosts you wish to purge.

---

---

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

**Explanation:** An invalid keyword was specified for llctl.

**User Response:** Refer to usage information for a list of valid keywords.

---

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

**Explanation:** Error occurred sending the command to specified host.

**User Response:** Check to see if the intended host is available over the network and that LoadLeveler is running. Contact a LoadLeveler administrator if necessary.

---

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

**Explanation:** A class name was specified with either the drain or resume keywords that does not exist with the LL 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:** Cannot determine if a LoadL\_startd is in "Drain" state.

**User Response:** Check command and make sure that a valid host list was passed.

---

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

**Explanation:** Cannot allocate an object corresponding to the named machine.

**User Response:** Check command and make sure that a nameserver-resolvable host name was passed.

---

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

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

**User Response:** Re-issue the command, specifying only valid options.

---

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

**Explanation:** Errors were encountered while processing command line.

**User Response:** Correct the errors reported and re-issue the command.

---

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

**Explanation:** lldbconvert 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. Cannot open the specified files.

**User Response:** Check path and permissions.

---

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

**Explanation:** Unable to convert job step from old format to 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:** Unable to store job number.

**User Response:** Check available disk space in local spool directory's file system. Check permissions on spool directory and files.

---

**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:** `lldbconvert` 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:** Failed to fetch job at the XDR level.

**User Response:** Make note of the job number. `lldbconvert` will discard an entire job if it fails to convert one of its job steps.

---

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

**Explanation:** Unknown proc version number encountered. XDR routines will pretend it is empty to avoid failure of entire transmission.

**User Response:** Keep track of 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`.

---

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

**Explanation:** Command not sent due to an error condition.

**User Response:** Check to see if the central manager host is up and if the `LoadL_negotiator` is running on it.

---

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

**Explanation:** Command not sent due to an error condition.

**User Response:** Check to see if the central manager host is up and if 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 `/etc/passwd` file for corruption. This error is very unlikely to occur.

---

---

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

**Explanation:** Command not sent since an error condition has been encountered.

**User Response:** Check to see if the central manager host is up and if 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.

---

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

**Explanation:** Command not sent since an error condition has been encountered.

**User Response:** Check to see if the central manager host is up and if 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 +/- sign and integer specification of priority adjustment.

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

---

**2512-249 When specifying the -x option, please do not specify -h, -u or more than one job id.**

**Explanation:** Conflicting options specified.

**User Response:** Refer to usage output or LoadLeveler User's Guide for usage information.

---

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

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

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

---

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

**Explanation:** Conflicting options.

**User Response:** Reissue the llq command using either the -s or -u option but not both.

---

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

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

**User Response:** Specify one or more job ids.

---

**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 can not be used when a job list has 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 host names.

---

**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 user names.

---

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

**Explanation:** Conflicting options.

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

---

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

**Explanation:** llq -c 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 class names.

---

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

**Explanation:** Conflicting options.

**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.

**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.

**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.

**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:** An invalid parameter of -r or -f option has been specified.

**User Response:** Execute llq -H 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.

**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.

**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:** An invalid job name or job step name has been specified.

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

---

**2512-276 A long listing of *schedd machine name*job ID.step ID is not available since you are not a LoadLeveler administrator or the owner of the job.**

**Explanation:** Only a LoadLeveler administrator or owner of a job can request a long listing.

**User Response:** Do not use the -l or -x option of the llq command unless you are the owner of the job or a LoadLeveler administrator.

---

**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 can not be used with a job list unless the -s option is also specified.

**User Response:** Do not use -h option when a job list has been specified unless -s is specified.

---

**2512-293 A duplicate category associated with -f or -r option has been specified.**

**Explanation:** A sub-option of the -f or -r option was specified more than once.

**User Response:** Each distinct sub-option should not be specified more than once. Use the -H option to get a list of valid sub-options.

---

**2512-294 The central manager is not defined in the LoadLeveler administration file.**

**Explanation:** Unable to obtain information about the central manager machine.

**User Response:** Check to see if 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 these options in any combinations.

**User Response:** Specify either -l, or -r, or -f but not a combination of these options.

---

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

**Explanation:** An invalid sub-option of the -f or -r option was specified.

**User Response:** Specify valid sub-options only. Use the -H option to get a list of valid sub-options.

---

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

**Explanation:** The arguments of this command contain characters not in the ASCII character set.

**User Response:** Specify only valid arguments.

---

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

**Explanation:** The argument specified 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 omitted.

**User Response:** Enter a date for the -s flag and the -e flag.

---

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

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

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

---

**2512-314 Cannot find history file.**

**Explanation:** History file cannot be found.

**User Response:** Enter a history file name on the command line or specify a HISTORY file in the LoadL\_config or LoadL\_config.local file.

---

**2512-315 HISTORY file path not specified in LoadL\_config file.**

**Explanation:** History file not found in LoadL\_config or LoadL\_config.local.

**User Response:** Specify a HISTORY file in the LoadL\_config or LoadL\_config.local file.

---

**2512-316 Unable to malloc *num* bytes for work record.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

**2512-317 Unable to malloc *num* bytes for work statistics.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

---

**2512-318** *parameter* is not a valid option for the -d flag.

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

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

---

**2512-377** The SDR Class *classname* class does not contain any SDR objects.

**Explanation:** The command was unable to extract any objects from the SDR class.

**User Response:** Contact the system administrator to start problem determination procedures for the SDR.

---

**2512-378** The SDR system partition does not contain any machine definitions.

**Explanation:** The command was unable to find SDR Node class entries for the machines in the system partition definition in the System Data Repository.

**User Response:** Contact the system administrator to start problem determination procedures for the SDR.

---

**2512-379** The SDR function *function\_name* failed with a return code of *return\_code*.

**Explanation:** The command issued a function to extract data from the SDR and the SDR function failed with the specified return code.

**User Response:** Contact the system administrator to start problem determination procedures for the SDR.

---

**2512-380** The SDR attribute *attribute* was not found in the SDR class *classname* object.

**Explanation:** The command could not find the attribute in the SDR class object.

**User Response:** Contact the system administrator to start problem determination procedures for the SDR.

---

**2512-381** An SP\_NAME of *SP\_NAME* was found. Verify that this is a valid partition.

**Explanation:** The command could not find the partition.

**User Response:** Contact the system administrator to start problem determination procedures for the SDR.

---

**2512-426** Step *step\_id* was marked not runnable at *time* due to dependency.

**Explanation:** Step is not runnable because dependency condition evaluated to false.

**User Response:**

---

**2512-427** Step *step\_id* has been canceled because it was rejected *num* time(s).

**Explanation:** Step was canceled.

**User Response:** Check that the job's requirements can be met on at least one machine in the LoadLeveler cluster and that the user ID of the submitter is valid on sufficient machines in the LoadLeveler cluster, and resubmit the job. If problem persists, contact the LoadLeveler administrator.



---

**2512-428 Step *step\_id* has been put on user hold because it has been rejected *num* time(s).**

**Explanation:** Step was put on user hold.

**User Response:**

---

**2512-429 Problem with history file.**

**Explanation:** Report history file problem.

**User Response:** Retry the command. If problem persists, contact the LoadLeveler administrator.

---

**2512-430 Error appending job *job\_name* to the history file, *errno* = *UNIX\_error\_num*.**

**Explanation:** History file problem.

**User Response:** Contact the LoadLeveler administrator.

---

**2512-431 Accounting has been disabled on machine: *machine\_name*.**

**Explanation:** History file problem.

**User Response:** Contact the LoadLeveler administrator.

---

**2512-432 Re-enable with: *llctl -h hostname reconfig* or *llctl -h hostname recycle*.**

**Explanation:** History file problem.

**User Response:** If you are a LoadLeveler administrator, run *llctl -h reconfig* or *llctl -h recycle* and retry the command. If not, contact the LoadLeveler administrator.

---

**2512-433 2512-433 has been put on system hold because it has been rejected *num* time(s).**

**Explanation:** Step was put on system hold.

**User Response:** Check that the job's requirements can be met on at least one machine in the LoadLeveler cluster and that the user ID of the submitter is valid on sufficient machines in the LoadLeveler cluster, and resubmit the job. If problem persists, contact the LoadLeveler administrator.

---

**2512-436 Cannot complete handshake with *daemon\_name* at *hostname*.**

**Explanation:** A process is unable to complete the protocol handshake with a LoadLeveler daemon.

**User Response:** Verify that the command version and daemon version are compatible.

---

**2512-437 Can't send command to *daemon\_name* at *hostname*.**

**Explanation:** A process is unable to send a transaction (command) to a LoadLeveler daemon.

**User Response:** Check to see if the daemon is active. Re-issue the command.

---

**2512-438 Can't send command parms to *daemon\_name* at *hostname*.**

**Explanation:** A process is unable to send a transaction parameters to a LoadLeveler daemon.

**User Response:** Check to see if the daemon is active. Re-issue the command.

---

---

**2512-439 Unable to receive ack from *daemon\_name* at *hostname*.**

**Explanation:** A process is unable receive an acknowledgement from LoadLeveler daemon.

**User Response:** Check to see if the daemon is active. Re-issue the command.

---

**2512-440 Unable to malloc *num* bytes for list.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

**2512-441 Specified step name *step\_name* is not a valid name for a LoadLeveler job.**

**Explanation:** Self explanatory

**User Response:** Re-issue the command specifying a correct LoadLeveler step name.

---

**2512-442 *statvfs(filename,address)* failed. Errno = *error\_num*.**

**Explanation:** The *statvfs* function call failed.

**User Response:** Use the *errno* value to determine the reason for failure.

---

**2512-443 *stats(filename,address)* failed. Errno = *error\_num*.**

**Explanation:** The *stats* function call failed.

**User Response:** Use the *errno* value to determine the reason for failure.

---

**2512-445 Syntax error: Blank required after end quote for keyword *keyword* .**

**Explanation:** The keyword requires a blank after the end quote.

**User Response:** Correct the command file and resubmit the job.

---

**2512-446 Syntax error: Quotes mismatched for keyword *keyword* .**

**Explanation:** The quotes are mismatched for the keyword.

**User Response:** Correct the command file and resubmit the job.

---

**2512-447 Syntax error: Keyword *keyword* is not terminated.**

**Explanation:** The keyword is not terminated.

**User Response:** Correct the command file and 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 keyword value is not valid

**User Response:** Correct the command file and resubmit the job.

---

**2512-449 Syntax error: The *keyword\_LIMIT* = *keyword\_value* integer value has too many digits. Maximum allowed is *digits*.**

**Explanation:** The keyword integer value has too many digits.

**User Response:** Correct the command file and resubmit the job.

---

**2512-450 Syntax error: The *keyword\_LIMIT* = *keyword\_value* fraction value has too many digits. Maximum allowed is *digits*.**

**Explanation:** The keyword fractional value has too many digits.

**User Response:** Correct the command file and resubmit the job.

---

---

**2512-451 Syntax error: The *keyword\_LIMIT = keyword\_value* value must be numeric.**

**Explanation:** The keyword value must be numeric.

**User Response:** Correct the command file and resubmit the job.

---

**2512-452 Syntax error: The *keyword\_LIMIT = keyword\_value* cannot contain a value of zero.**

**Explanation:** The keyword value must be greater than zero.

**User Response:** Correct the command file and resubmit the job.

---

**2512-453 Syntax error: The *keyword\_LIMIT* value *keyword\_value* has too many characters.**

**Explanation:** The keyword value units has too many characters.

**User Response:** Correct the command file and resubmit the job.

---

**2512-454 Syntax error: The time *keyword* format is invalid.**

**Explanation:** The time format in the keyword value is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-455 Syntax error: *line*.**

**Explanation:** The line in the job control file is not valid. The syntax is unknown.

**User Response:** Correct the command file and 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 keyword value exceeds the hard limit value.

**User Response:** Correct the command file and resubmit the job.

---

**2512-457 Unable to generate a temporary file name for stdin input file.**

**Explanation:** The command was unable to generate a temporary file name.

**User Response:** Determine if the user has valid file permissions. If the problem persists, report it to the system administrator.

---

**2512-458 Unable to open command file *filename* for output.**

**Explanation:** The command was unable to open the temporary command file.

**User Response:** Determine if 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 was unable to delete the temporary command file.

**User Response:** Determine if the user has valid file permissions. If the problem persists, report it to the system administrator.

---

---

**2512-460 Unable to write stdin input file to *temp\_filename*.**

**Explanation:** The command was unable to write the stdin command file to the temporary command file.

**User Response:** Determine if the user has valid file permissions. If the problem persists, 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 command file and 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:** Determine if the user has valid file permissions. If the problem persists, report it to the system administrator.

---

**2512-465 Syntax error: The time *keyword\_value* contains a non-numeric characters.**

**Explanation:** The time format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-466 Syntax error: The start date must be 12 digits: *YYMMDDhhmmss*.**

**Explanation:** The date and time format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-467 Syntax error: For the *keyword keyword*, *month\_value* is not a valid month.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-468 Syntax error: For the *keyword keyword*, *day\_value* is not a valid day.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-469 Syntax error: For the *keyword keyword*, *hour\_value* is not a valid hour.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-470 Syntax error: For the *keyword keyword*, *minute\_value* is not a valid minute.**

**Explanation:** The time format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-471 Syntax error: For the *keyword keyword*, *second\_value* is not a valid second.**

**Explanation:** The time format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

---

**2512-472 Syntax error: For *keyword = keyword\_value* , the MM is not valid MM/DD/YY.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-473 Syntax error: For *keyword = keyword\_value* , the DD is not valid MM/DD/YY.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-474 Syntax error: For *keyword = keyword\_value* , the YY is not valid MM/DD/YY.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and resubmit the job.

---

**2512-475 Syntax error: For *keyword = keyword\_value* , the date format is not valid MM/DD/YY.**

**Explanation:** The date format is not valid.

**User Response:** Correct the command file and 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 command that was invoked could not switch to the locale specified in the user's environment variables. The default locale being used is specified in the message.

**User Response:** Ensure 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 command could not restore the value of LC\_COLLATE to its default value. The value from the user's environment will be used.

**User Response:** Contact the LoadLeveler administrator.

---

**2512-478 *job name* could not open *executable name* to check for magic number.**

**Explanation:** The job's executable could not be opened to verify it is in the correct executable file format.

**User Response:** Make sure the executable specified in the job is an existing file with the appropriate file access permissions.

---

**2512-479 *job name* read(*file descriptor*, *file header address*,*file header size*) for magic number failed.**

**Explanation:** The job's executable's XCOFF header could not be read.

**User Response:** Make sure the executable specified in the job is a binary executable compiled on the correct operating system platform.

---

**2512-480 Bad magic number in xcoff header.**

**Explanation:** The job's executable is not in XCOFF format.

**User Response:** Make sure the executable specified in the job is a binary executable compiled on the correct operating system platform.

---

---

**2512-481 Bad a.out header size in xcoff header.**

**Explanation:** The job's executable's a.out header could not be read.

**User Response:** Make sure the executable specified in the job is a binary executable 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:** Read failed for job's executable.

**User Response:** Make sure file specified as the executable in the job command file exists and has the correct file access permissions.

---

**2512-483 Bad magic number in a.out header.**

**Explanation:** The job's executable has bad XCOFF format.

**User Response:** Make sure the executable specified in the job is a binary executable 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 call failed for job's executable.

**User Response:** Executable may be stripped. Verify that the job's executable is a binary executable compiled on the correct operating system, and is not stripped.

---

**2512-485 *job name* No symbol .MAIN found in executable (*executable name*).**

**Explanation:** Job's executable was not linked to run with pre-LoadLeveler 2.1 checkpoint library.

**User Response:** Rerun the job and if the problem persists, contact IBM service.

---

**2512-486 *job name* could not open *executable name* to check for magic number.**

**Explanation:** The specified calling program could not open job's executable file.

**User Response:** Make sure executable specified in job command file exists with the correct file access permissions.

---

**2512-487 *job name* could not read *executable name* to check for magic number, errno = *error num*.**

**Explanation:** The specified calling program was unable to read the job's executable file when attempting to check its XCOFF header.

**User Response:** Make sure executable specified in job command file has the correct file access permissions.

---

**2512-488 *job name* could not read file header of *executable name* to check for magic number.**

**Explanation:** The specified calling program was unable to read job executable's file header.

**User Response:** Make sure executable specified in job command file has the correct file access permissions and is a binary executable compiled on the correct operating system platform.

---

**2512-489** *job name* **Magic number of executable** *executable name is not*  
**SHARE\_MAGIC.**

**Explanation:** The specified job's executable is not SHARE\_MAGIC format.

**User Response:** Make sure executable specified in job command file is a binary executable compiled on the correct operating system platform.

---

**2512-490** *job name* **Executable** *executable name is not compiled for this architecture.*

**Explanation:** The executable in the specified job is not compiled to run on this operating system platform.

**User Response:** Make sure executable specified in job command file is a binary executable compiled on the correct operating system platform.

---

**2512-491** **mbstowcs() error converting string** (*multibyte character input string*).

**Explanation:** The specified command which uses the mbstowcs system call encountered an error attempting to convert the command line input from multibyte character string to wide character string.

**User Response:** Verify validity of multibyte character input string, and 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 specified command encountered an error while parsing the command input in the specified file at the specified line.

**User Response:** Examine the expression in the specified file at the specified line for incorrect syntax. Correct the problem and retry the command.

---

**2512-493** **Unable to evaluate expression in function at line line num.**

**Explanation:** The specified command encountered an internal error occurred because of a malformed expression.

**User Response:** Retry the command, and if the problem persists, contact IBM service.

---

**2512-494** **Expression** *expression name* **expected type string, but was** *expression type*

**Explanation:** The specified command Processing a set expression expected to find a character string but found the specified type instead.

**User Response:** Contact the LoadLeveler administrator if the problem is not apparent from the information given.

---

**2512-495** **Input file contains string,** *command file line,* **with non-ASCII characters.**

**Explanation:** The specified command detected non-ASCII characters in the specified file at the specified line. LoadLeveler expects all input to be ASCII characters.

**User Response:** Correct the command file and resubmit the job.

---

**2512-777** **XDR\_Write failed, returned** *return\_code*, **fd =** *file\_descriptor*, **errno =**  
*error\_num.*

**Explanation:** xdr is used to transmit data among LoadLeveler commands and daemons.

**User Response:** Verify that the LoadLeveler daemon is still running.

---

---

**2512-901 Unable to set gid for user.**

**Explanation:** The gid for the user could not be set before starting the user's job step. This message will be followed by a message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**2512-902 Unable to set process limits for user.**

**Explanation:** Resource process limits could not be set before starting the user's job step. This message will be followed by a message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**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 message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

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

---

**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 message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**2512-907 Uid cannot be verified on *hostname*.**

**Explanation:** The starter cannot verify that 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 message giving more detail on the exact cause of the failure.

**User Response:** The user must have the same uid on both the submitting machine and the running machine.

---

**2512-908 Gid cannot be verified on *hostname*.**

**Explanation:** The starter cannot verify that 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 message giving more detail on the exact cause of the failure.

**User Response:** The user must have the same gid on both the submitting machine and the running machine.



---

**2512-909 Cannot get user credentials.**

**Explanation:** Credentials for the user cannot be obtained. This message will be followed by a message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**2512-910 Cannot establish listen socket for Starter children. `errno=error_num`  
`error_msg`.**

**Explanation:** The listen system call failed. The Starter was attempting to listen on a unix domain socket to communicate with a forked process.

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

---

**2512-911 Cannot receive executable from Schedd.**

**Explanation:** A transaction from the Starter on a run machine to the Schedd on the submitmit machine to retrieve the executable file has failed.

**User Response:** Check 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:** Check that the directory and file exist and the user has permission to access the directory.

---

**2512-913 Unable to validate privileges for stdio.**

**Explanation:** The lcheckpriv program was unable to access a stdio file for the job step and was unable to return an error message.

**User Response:** Check the StarterLog for messages indicating the reason for the failure.

---

**2512-914 Checkpointing was requested but program is not an executable.**

**Explanation:** Only a binary program can be checkpointed. Checkpointing is not valid with a shell script.

**User Response:** Specified a binary program for the executable or turn off checkpointing and resubmit the job.

---

**2512-915 Checkpointing was requested but program is not linked with LoadLeveler  
libs.**

**Explanation:** Only a binary program can be checkpointed. Checkpointing is not valid with a shell script. program to be checkpointed must be linked with the LoadLeveler libraries

**User Response:** Link the program with the LoadLeveler libraries and resubmit the job.

---

**2512-916 Program linked with LoadLeveler libs but checkpointing is not requested.**

**Explanation:** The program specified as the executable is linked with the LoadLeveler executables which are used for checkpointing the program but the program will not be checkpointed because checkpointing was not requested.

**User Response:** Link the program without the LoadLeveler libraries or turn on checkpointing and resubmit the job.

---

---

**2512-917 Cannot exec process for *task\_name*. *errno=error\_num error\_msg*.**

**Explanation:** The exec system call failed for the specified process.

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

---

**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 message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**2512-919 Cannot receive job data from schedd on *hostname*.**

**Explanation:** An error occurred as the starter was request the job information from the schedd on the specified host.

**User Response:** Check the schedd log and the starter log on the appropriate machine 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. Since the a parallel job step will not continue until all nodes are READY the job step will be rejected.

**User Response:** Check the starter log and the starter log for the exact cause of the failure.

---

**2512-921 Job was not accepted by NQS.**

**Explanation:** An error occurred when a job was submitted to NQS.

**User Response:** Check the output from the qsub command 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 abnormally terminated while waiting for the job step to complete. Since 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 LoadLeveler logs for the appropriate machine to determine the cause to the LoadL\_starter failure.

---

**2512-923 Cannot create PVM control file *filename*, *errno = error num error message*.**

**Explanation:** The file necessary to start the PVM daemon (pvmd) could not be created.

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

---

**2512-924 Cannot get PVM task id on *host name*, PVM error = *PVM error num*, *errno=error num error message*.**

**Explanation:** The PVM function, pvm\_mytid, failed to return the PVM task id for the specified host.

**User Response:** Correct the problem indicated by the PVM or system error number.

---

**2512-925 Cannot get PVM socket, PVM error = PVM error num, errno=error num error message.**

**Explanation:** The PVM function, `pvm_getfds`, failed to return the file descriptor for the socket to the PVM daemon (`pvmd`) on the master node.

**User Response:** Correct the problem indicated by the PVM or system error number.

---

**2512-926 Cannot register as PVM hoster, PVM error = PVM error num, errno=error num error message.**

**Explanation:** The PVM function, `pvm_reg_hoster`, failed. This function is used to inform PVM that LoadLeveler will select all the hosts and start the PVM daemon (`pvmd`) on all hosts.

**User Response:** Correct the problem indicated by the PVM or system error number.

---

**2512-927 Cannot return PVM response to master starter, errno=error num error msg.**

**Explanation:** A remote Starter could not send a PVM message to the master Starter.

**User Response:** Correct the problem indicated by system error number.

---

**2512-928 PVM daemon is already running on hostname, task id = PVM task ID**

**Explanation:** A PVM daemon (`pvmd`) is already running on the specified host. When running PVM under LoadLeveler only one PVM job can be run on a host at a time.

**User Response:** Stop PVM on the specified host and resubmit the job.

---

**2512-929 Cannot remove old PVM socket file, filename, on hostname, errno = error num error msg.**

**Explanation:** The socket file left from a previous PVM session cannot be removed so PVM cannot be started on the host.

**User Response:** Correct the problem indicated by system error number.

---

**2512-930 Cannot read start host message from PVM. Cannot start PVM on remote host.**

**Explanation:** LoadLeveler received a start host message (`SM_STHOST`) from PVM but the message was not in a valid format.

**User Response:** Check the correct version of PVM is installed properly and resubmit the job.

---

**2512-931 Request to start PVM on host hostname failed. The host was not found in LoadLeveler's host list.**

**Explanation:** LoadLeveler received a start host message (`SM_STHOST`) from PVM but the host name was not valid.

**User Response:** Check the correct version of PVM is installed properly and resubmit the job.

---

**2512-932 Cannot send start PVM request to Startd on hostname,errno = error num error msg.**

**Explanation:** The master Starter cannot send a request to the Startd on the specified node to start the PVM daemon (`pvmd`).

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

---

---

**2512-933 PVM could not be started on remote host** *hostname,errno = error num error msg.*

**Explanation:** The master Starter either could not receive the start up message from the remote Starter or the PVM daemon (pvmd) could not be started on the remote host.

**User Response:** If the error number indicates a network problem resubmit the job after the problem has been corrected. Otherwise check the Starter log on the remote node for the cause of the 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 message giving more detail on the exact cause of the failure.

**User Response:** See action for following message.

---

**2539-001 Could not open input file (/dev/null) for pipe input.**

**Explanation:** The command `open("/dev/null", O_RDONLY)` failed.

**User Response:** Contact the LoadLeveler administrator.

---

**2539-002 command was not executed.**

**Explanation:** `xloadl` attempted unsuccessfully to execute a system command.

**User Response:** Reason for this error should be displayed immediately preceding this message.

---

**2539-003 Could not create stdout pipe from** *command, errno = error\_num.*

**Explanation:** Executing a pipe command failed.

**User Response:** Check the `errno` to determine why the command failed.

---

**2539-004 Could not create stderr pipe from** *command, errno = error\_num.*

**Explanation:** Executing a 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:** An error occurred while attempting to fork the command.

**User Response:** Check the `errno` to determine why the fork failed.

---

**2539-006 Could not execute command** *command. errno=error\_num.*

**Explanation:** An error occurred while attempting to execute the 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 the value entered was not one of the valid values for this field.

**User Response:** Re-enter a value for the selection by selecting a value from the selection box. If you typed a value, check the spelling to ensure it matches a valid value.

---

**2539-008 Logging has already been started to file *filename*.**

**Explanation:** Logging cannot be started because commands are being logged to the specified file at this time.

**User Response:** No action is needed if you want logging to take place to the specified file. If you want to begin logging to another file, select Stop Logging and then Start Logging with your new file specified.

---

**2539-009 No jobs are selected.**

**Explanation:** The tasks you want to perform require that at least one job step be selected.

**User Response:** Select a job step and 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 preceding error messages for possible causes. If there are none, check to see if 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 preceding error messages for possible causes. If there are none, check to see if 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 preceding error messages for possible causes. If there are none, check to see if the job step has completed.

---

**2539-013 No host specified. No selection performed.**

**Explanation:** Although one of the `by_host` job\_filters has been indicated, no indication of which machines have been provided.

**User Response:** The previous setting for filtering jobs will be used. Respecify the new filter 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 be no machines which match the regular expression.

**User Response:** If there is a problem with the regular expression, 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` job\_filters has been indicated, no indication of which users have been provided.

**User Response:** The previous setting for filtering jobs will be used. Respecify a new filter using **Select** on the menu bar.

---

---

**2539-016 No group specified. No selection performed.**

**Explanation:** Although one of the `by_group` `job_filters` has been indicated, no indication of which groups have been provided.

**User Response:** The previous setting for filtering jobs will be used. Respecify a new filter using **Select** on the menu bar.

---

**2539-017 No job specified. No selection performed.**

**Explanation:** Although one of the `by_...` `job_filters` has been indicated, no indication of which job step ids have been provided.

**User Response:** The previous setting for filtering jobs will be used. Respecify a new filter using **Select** on the menu bar.

---

**2539-018 Internal error: *filter\_type* is not a valid filter.**

**Explanation:** A value that is not valid is being used as the filter type.

**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.

---

**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 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 preceding error messages for possible causes. If there are none, check to see if the job step has completed.

---

**2539-025 No machine is selected.**

**Explanation:** The task you want to perform require that at least one machine be selected.

**User Response:** Select a machine from the Machines window and invoke the command again.

---

**2539-026 No schedd machine specified. No purge performed.**

**Explanation:** A schedd machine needs to be specified for the purge command.

**User Response:** Enter a machine name into the Purge Machine dialog.

---

---

**2539-027 No machines selected. No machines will be purged.**

**Explanation:** At least one machine needs to be specified for the purge command.

**User Response:** Select a machine from the Machines window and invoke the purge command again.

---

**2539-028 No host is selected for details.**

**Explanation:** At least one machine needs to be specified for the details command.

**User Response:** Select a machine from the Machines window and 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 preceding messages for reason details were not returned.

---

**2539-031 No host selected for Version.**

**Explanation:** At least one machine needs to be specified for the Version command.

**User Response:** Select a machine from the Machines window and 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 preceding messages for reason Version information was not returned.

---

**2539-033 No host selected for Collecting data.**

**Explanation:** At least one machine needs to be specified for the Capture Data command.

**User Response:** Select a machine from the Machines window and invoke the command again.

---

**2539-034 No Operating System specified. No selection performed.**

**Explanation:** To change the Selection filter to by Operating System you must specify an Operating System. The value returned was NULL, so the filter was not changed.

**User Response:** Use the Select pulldown in the Machines Window to reset the Selection filter.

---

**2539-035 No Architecture specified. No selection performed.**

**Explanation:** To change the Selection filter to by Architecture, you must specify an Operating System. The value returned was NULL, so the filter was not changed.

**User Response:** Use the Select pulldown in the Machines Window to reset the Selection filter.

---

**2539-036 No host selected for Capture.**

**Explanation:** At least one machine needs to be specified for the Capture Data command.

**User Response:** Select a machine from the Machines window and invoke the command again.

---

---

**2539-038 Value of *resource\_name* is not valid, resetting from *resource\_value* to *default\_value*.**

**Explanation:** Because the value of the Resource is not valid, a default value is used.

**User Response:** If the default value is not acceptable to you, exit xloadl, change the value of the Resource in your Xloadl or .Xdefaults file, and re-invoke xloadl.

---

**2539-039 No ADMIN\_FILE specified in LoadL\_config. Cannot start LoadLeveler.**

**Explanation:** LoadLeveler cannot start without an admin file.

**User Response:** Add an ADMIN\_FILE keyword and value to your configuration file. For example, "ADMIN\_FILE = /u/loadl/LoadL\_admin".

---

**2539-040 Could not read machine list from admin file.**

**Explanation:** There is a problem reading machine information from the admin file.

**User Response:** Check the machine stanzas in the admin file.

---

**2539-041 Can not get configuration information. xloadl cannot continue.**

**Explanation:** Because it could not get configuration information, xloadl cannot start.

**User Response:** Ensure the LoadL\_admin and LoadL\_config files are available and accessible.

---

**2539-042 LOADL\_ADMIN not specified in config file. No administrator commands will be permitted.**

**Explanation:** Since there are no LoadLeveler administrators identified in the config file, no administrator commands are allowed.

**User Response:** Exit xloadl and re-invoke it after administrators have been specified in the config file. For instance, LOADL\_ADMIN = loadl.

---

**2539-043 Unable to malloc() *num* bytes of memory.**

**Explanation:** Not enough storage space was available to perform the allocation.

**User Response:** Make more storage available.

---

**2539-044 Error returned on regular expression match.**

**Explanation:** An error was returned while trying to match a regular expression used as a job selection filter.

**User Response:** Modify the regular expression.

---

**2539-045 Could not contact *daemon\_name* on *hostname*.**

**Explanation:** Could not contact the daemon specified to get job information.

**User Response:** Check to see if the daemon is running.

---

**2539-046 Error receiving job data.**

**Explanation:** A request for job information has been unsuccessful. If data was returned, it may be incomplete.

**User Response:** Re-issuing the command or refreshing the Jobs window may resolve the problem. If it persists, try exiting and re-invoking xloadl.



---

**2539-047 Cannot read machine information from central manager.**

**Explanation:** An error occurred while machine information was being sent to xloadl from the central manager.

**User Response:** Re-do the action.

---

**2539-048 Could not send command to cm host.**

**Explanation:** xloadl was able to connect to the central manager, but was not able to successfully send a command to it.

**User Response:** Consult preceding messages 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 needed.

---

**2539-050 Could not connect to *daemon\_name* on *hostname*. Will retry later.**

**Explanation:** No update to the Machines window was made because the daemon was not successfully contacted. Another attempt will be made after the automatic refresh interval.

**User Response:** No action needed.

---

**2539-051 Access to this job is denied.**

**Explanation:** You cannot issue commands for this job.

**User Response:** None.

---

**2539-052 You do not own Job *job\_id step\_id*. Access to this job denied.**

**Explanation:** You cannot issue commands for this job step, because you do not own it.

**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 users.

**User Response:** Re-issue the command. If the same message occurs, exit from xloadl and re-start it.

---

---

**2539-056 Could not send command to *daemon\_name* on *machine\_name*.**

**Explanation:** An unsuccessful attempt was made to send a command to the daemon.

**User Response:** Check to see if the daemon is active. Re-issue the command. If the same message occurs, exit from xloadl and re-start it.

---

**2539-057 Only the LoadLeveler administrator may order users.**

**Explanation:** You do not have authority to issue this command.

**User Response:** A LoadLeveler administrator can issue this command.

---

**2539-058 Error receiving machine data.**

**Explanation:** A request for machine information has been unsuccessful. If data was returned, it may be incomplete.

**User Response:** Re-issuing the command or refreshing the Machines window may resolve the problem. If it persists, try exiting and re-invoking xloadl.

---

**2539-059 Only the LoadLeveler administrator may issue LoadLeveler control commands.**

**Explanation:** You do not have authority to do this action.

**User Response:** A LoadLeveler administrator has the authority to do this.

---

**2539-060 Can not find name of executable for LoadL\_master in config file.**

**Explanation:** Did not find name of executable for LoadL\_master in 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 Could not send command.**

**Explanation:** The command to restart LoadLeveler could not be sent to the Master daemon on the selected machine.

**User Response:** Resolve why the command cannot be sent or login to the selected machine and start LoadLeveler there.

---

**2539-062 No machines selected. No machines purged.**

**Explanation:** If no machines are selected, a purge cannot occur.

**User Response:** Select at least one machine and rerun the command.

---

**2539-063 Could not get class information for *machine name*.**

**Explanation:** No classes were returned for the selected machine due to internal errors.

**User Response:** Re-issuing the command or refreshing the Machines window may resolve the problem. If it persists, try exiting and re-invoking xloadl.

---

**2539-064 Cannot obtain this host name. Job not submitted.**

**Explanation:** The official hostname for this machine is not set.

**User Response:**

---

**2539-065 Cannot find password entry for your userid. Job not submitted.**

**Explanation:** The `get_userid()` call returned a value of NULL.

**User Response:**

---

**2539-066 Cannot find your userid in `/etc/passwd`. Job not submitted.**

**Explanation:** The `getpwuid()` or `getuid()` call returned a value of NULL.

**User Response:**

---

**2539-067 Not valid user priority, `input`, is ignored.**

**Explanation:** The value you typed into the text field for user priority is not a valid value for user priority.

**User Response:** Type a value between 0 and 100 into the field for user priority.

---

**2539-068 Previously set user priority value, `user_priority`, is used.**

**Explanation:** The value you wanted to replace the user priority is not valid, so the previously set value is used.

**User Response:** If you want to change the value, type a value between 0 and 100 into the field for user priority.

---

**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. It has been replaced by the maximum value.

**User Response:** If you want the user priority to be a value other than 100, type a value between 0 and 100 into the field for user priority.

---

**2539-070 `min_processors` value of `num` is not valid. It is ignored.**

**Explanation:** The value for `min_processors` is not valid. The default, 1, is used.

**User Response:** Enter a non-negative number in the `min_processors` field.

---

**2539-071 `max_processors` value of `num` is not valid. It is ignored.**

**Explanation:** The value for `max_processors` is not valid. The default, 1, is used.

**User Response:** Enter a non-negative number in the `max_processors` field.

---

**2539-072 Unrecognized job primary sort request: `sort_type`.**

**Explanation:** The value in the message is not recognized as a sort type.

**User Response:** Stop and restart `xloadl...`

---

**2539-073 Unrecognized job secondary sort request: `sort_type`.**

**Explanation:** The value in the message is not recognized as a sort type.

**User Response:** Stop and restart `xloadl...`

---

**2539-074 Unrecognized machine primary sort request: `sort_type`.**

**Explanation:** The value in the message is not recognized as a sort type.

**User Response:** Stop and restart `xloadl...`

---

---

**2539-075 Unrecognized machine secondary sort request: *sort\_type*.**

**Explanation:** The value in the message 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; however xloadl cannot connect to it.

**User Response:** Check to see if the Central Manager is active.

---

**2539-077 Cannot find a central manager.**

**Explanation:** xloadl did not locate any central manager.

**User Response:** Exit xloadl, re-start it, and rerun the command. If no central manager is still found, contact your LoadLeveler admin.

---

**2539-078 Entire Script may not have been saved.**

**Explanation:** The number of bytes saved less than the number in the file.

**User Response:** Try to save the script again. Ensure there is enough space.

---

**2539-079 Unable to save Script. Error in creating tempfile.**

**Explanation:** The script could not be saved to a temporary file.

**User Response:** Check /tmp to ensure that there is enough space and permissions allow saving a file here.

---

**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.**

**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 and reissue the command. You may want to refresh the Jobs window before doing so to ensure the status presented there is more up to date.

---

**2539-084 The length of the regular expression must be less than 1024 bytes.**

**Explanation:** The length of regular expressions entered in xloadl must be less than 1024 bytes.

**User Response:** Enter a shorter regular expression.

---

**2539-085 Problem with regular expression, *regular\_expression* : *error\_msg*.**

**Explanation:** String2 describes a problem with the regular expression in string1.

**User Response:** Use the message in string2 to determine the cause of the error and correct it.

---

**2539-086 Problem with regular expression, *regex.h* error no. = *error\_code*.**

**Explanation:** There is a problem with your regular expression which is described by the error code.

**Explanation:** Consult `/usr/include/regex.h` for the error codes and their meanings.

---

**2539-087 Problem with regular expression:**

**Explanation:** There is a problem with your regular expression which is described by the error message.

**User Response:** Use the message in string2 to determine the cause of the error and correct it.

---

**2539-088 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. Consult the preceding messages for the reason. described by the error message.

**User Response:** Address the cause of the preceding messages.

---

**2539-089 Min # of Nodes must be less than Max # of Nodes.**

**Explanation:** The value you have in the Nodes window for maximum number of

**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 minimum and maximum number of nodes as well as total task in the Nodes Window. A range of nodes is not valid when Total Tasks are specified.

**User Response:** Modify the values so that the maximum and minimum are the same or unset values so the conflict no longer exists.

---

**2539-091 Minimum number of nodes, *field value*, is not valid. It is ignored.**

**Explanation:** The value for the text field for minimum number of nodes is not a valid value for this field.

**User Response:** Modify 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 for the text field for maximum number of nodes is not a valid value for this field.

**User Response:** Modify the value to an integer that is greater than minimum number of nodes.

---

**2539-093 Tasks Per Node, *field value*, is not valid. It is ignored.**

**Explanation:** The value for the text field for Tasks Per Node is not a valid value for this field.

**User Response:** Modify 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 for the text field for Total Tasks is not a valid value for this field.

**User Response:** Modify 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 for the text field for minimum number of processors is not a valid value for this field.

**User Response:** Modify 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 text field for maximum number of processors is not a valid value for this field.

**User Response:** Modify the value to an integer that is greater than minimum number of processors.

---

**2539-097 Node Usage, *field value*, is not valid. It is ignored.**

**Explanation:** The value for the text field for Node Usage is not a valid value for this field.

**User Response:** Modify the value. Support values are "shared" and "not\_shared."

---

**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. Consult the preceding messages for the reason.

**User Response:** Address the cause of the preceding messages.

---

**2539-130 Adapter preference is not supported. It is ignored.**

**Explanation:** Your input contains a Preferences line which has an Adapter keyword in it. The Preferences line is ignored due to the unsupported keyword.

**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 Job Builder instead of information from your file.

**User Response:** Check that the directory and file exist and 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 option for the notification keyword that is not recognized.

**User Response:** Check to ensure a valid option is specified. The values are user\_initiated, system\_initiated, no.

---

**2539-133** *checkpoint option is not a valid checkpoint option. It is ignored.*

**Explanation:** Your file specifies an option for the checkpoint keyword that is not recognized.

**User Response:** Check to ensure a valid option is specified. The values are user\_initiated, system\_initiated, no.

---

**2539-134** *restart option is not a valid Restart option. It is ignored.*

**Explanation:** Your file specifies an option for the Restart keyword that is not recognized.

**User Response:** Check to ensure a valid option is specified. The values are yes, 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, so that line is ignored and the information is not displayed in the Job Builder.

**User Response:** Check 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 there is more than one Adapter specified in the line.

**User Response:** Rewrite the line so that only one Adapter is specified or remove the Adapter specifications 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, so that line is ignored and the information is not displayed in the Job Builder.

**User Response:** Remove Adapter from the Preferences line.

---

**2539-138** **Preference line in *input file* is not valid. It is ignored.**

**Explanation:** The Preferences line specified in your file is not valid, so that line is ignored and the information is not displayed in the Job Builder.

**User Response:** Check 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 option for the job\_type keyword that is not recognized.

**User Response:** Check to ensure a valid option is specified. The values are pvm3, parallel, 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 a Job Builder window.

**User Response:** Set the information in the Network window (for mpi, lapi) or the PVM window (for pvm).

---

**2539-141 *network type* is not a valid network type. The network keyword is ignored.**

**Explanation:** Your file specifies an adapter name or network type which is not valid.

**User Response:** Check to ensure a valid name or type is specified. The values are specified as adapter names or network types on the Adapter stanzas in the LoadL admin file.

---

**2539-142 *adapter usage or node* is not a valid adapter usage or mode. It is ignored.**

**Explanation:** Your file specifies an adapter usage or mode which is not valid.

**User Response:** Check to ensure a valid value is specified. The values for usage are shared and not\_shared. The values for mode are IP and US.

---

**2539-143 The *adapter usage or node* keyword in *filename* is not supported by the job builder.**

**Explanation:** Your file specifies a keyword that is not recognized. It is ignored by the Job Builder.

**User Response:** Check to ensure a valid value is specified.

---

**2539-144 Cannot read the default file, *xloadl default file*.**

**Explanation:** Unable to open file.

**User Response:** Check for various conditions.... File might not exist, permissions might prohibit opening, no file descriptors may be available, etc. 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 preceding error messages for possible causes. If there are none, attempt to run the command again or run llclass -l classname from the command line.

---

**2539-146 No Class Choices are available.**

**Explanation:** No classes were returned for display in Class Choices Selection Box.

**User Response:** This message appears if no Classes are configured in the LoadL admin file. Preceding error messages may indicate if a problem has occurred obtaining the data.

---

**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 Job Builder. Since only one is supported in a job cmd file, the Adapter statement cannot be converted into a network statement.

**User Response:** Update your input file so it contains only one network or Adapter keyword or check in the Network or PVM window in the Job Builder to ensure Adapter/Network 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 type 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:** Update the Adapter with a configured adapter name or replace it with a network specification for a valid adapter type in your input file or set the Adapter using the Network or PVM 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:** Update the Adapter with a configured adapter name or replace it with a network specification for a valid adapter type in your input file or set Adapter/Network in the Network or PVM 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 statement has already been restored into the Job Builder. Since only one is supported in a job cmd file, the Adapter statement cannot be converted into a network statement.

**User Response:** Update your input file so it contains only one network or Adapter keyword or check the Network or PVM window in the Job Builder to ensure it reflects the adapter you wish to use and update the Requirements window for other requirements.

---

**2539-154 Cannot set both Adapter Requirement and Network.**

**Explanation:** There is already an Adapter keyword on the Requirements line. Since only one of Adapter Requirement and Network is supported in any job cmd file, entering adapter information into the Network or PVM window is prevented. This message will only appear once.

**User Response:** Remove the Adapter keyword from the Requirements input field in the Requirements window, if you wish to enter adapter information in the Network or PVM window.

---

**2539-155 The *keyword* keyword from your input file is not supported by the *scheduler type* scheduler. It is ignored.**

**Explanation:** This keyword from your input file is not supported by the scheduler currently running. The keyword is ignored and will not appear in the Job Builder.

**User Response:** None.

---

**2539-156 The Adapter *adapter type* in the Requirements line is ignored. It cannot be converted to a network.PVM statement.**

**Explanation:** The Adapter type referred to in the Requirements line cannot be converted to a network.PVM statement. It is ignored and will not appear in the Job Builder.

**User Response:** Update the network information in the PVM window of the Job Builder as needed.

---

**2539-157 Cannot set US Mode in a network.PVM statement. Mode is ignored.**

**Explanation:** The Adapter type referred to in the Requirements line cannot be converted to a network.PVM statement. It is ignored and will not appear in the Job Builder.

**User Response:** Update the network information in the PVM window of the Job Builder as needed.

---

**2539-158 The network statement in your input file is ignored because an Adapter Requirement was converted to a network statement.**

**Explanation:** While filling Job Builder fields from your input file, an Adapter keyword on the Requirements line has been converted to a network keyword. Since only one of Adapter Requirement and Network is supported in any job cmd file, the network statement is ignored.

**User Response:** Go to the Network window and adjust the settings as needed.

---

**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 an loadable object to contain code for fetching and setting afs tokens. The loadable object was not found when LoadLeveler attempted to load it.

**User Response:** Ensure the LoadLeveler afs loadable object is installed and repeat command.

---

**2539-231 Job Switch Resource Table could not be loaded on node *node\_name* for the following reason:**

**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.

---

**2539-232 Job Switch Resource Table could not be loaded on node *node\_name* because the switch is in use and can not be freed.**

**Explanation:** The Job Switch Resource Table for a job could not be loaded on the specified machine because the switch is already in use and attempts to free the switch have failed.

**User Response:** Check the switch table log in */var/adm/SP/logs/st/st\_log* for the cause of the failure.

---

**2539-233 Job Switch Resource Table could not be loaded on node *node\_name* due to a system error, *st\_load\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource Table for a job could not be loaded on the specified machine because of a system error.

**User Response:** Check the switch table log in */var/adm/SP/logs/st/st\_log* for the cause of the failure.

---

**2539-234 Job Switch Resource Table could not be loaded on node *node\_name* due to an internal error, *st\_load\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource 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.

---

**2539-235 Job Switch Resource Table could not be unloaded on node *node\_name* due to a system error, *st\_unload\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource Table for a job could not be unloaded on the specified machine because of a system error.

**User Response:** Check the switch table log in `/var/adm/SP/logs/st/st_log` for the cause of the failure.

---

**2539-236 Job Switch Resource Table could not be unloaded on node *node\_name* due to an internal error, *st\_unload\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource 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.

---

**2539-237 Job Switch Resource Table could not be unloaded on node *node\_name* for the following reason:**

**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.

---

**2539-238 Job Switch Resource Table could not be removed on node *node\_name* due to a system error, *st\_clean\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource Table for a job could not be removed on the specified machine because of a system error.

**User Response:** Check the switch table log in `/var/adm/SP/logs/st/st_log` for the cause of the failure.

---

**2539-239 Job Switch Resource Table could not be removed on node *node\_name* due to an internal error, *st\_clean\_table* returned error *return\_code*.**

**Explanation:** The Job Switch Resource Table for a job could not be removed on the specified machine because of an internal error.

**User Response:** Report the failure to IBM service.

---

**2539-240 Job Switch Resource Table could not be removed on node *node\_name* for the following reason:**

**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 error message.

---

**2539-242 Could not determine status for switch adapter *adapter\_name* for the following reason:**

**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:** LoadLeveler internal routing error.

**User Response:** If problem persists, call IBM Service.

---

**2539-244 Failed to route expression for *specification name (specification number)*.**

**Explanation:** LoadLeveler internal routing error.

**User Response:** If problem persists, call IBM Service.

---

**2539-245 Internal error, cannot find tree for configuration type *configuration type*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-246 Unknown stanza type *configuration type*.**

**Explanation:** Invalid value defined for stanza type.

**User Response:** Validate correctness of stanzas in LoadL\_admin file.

---

**2539-247 Cannot make a new stanza of type *stanza type*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-248 Error refreshing *stanza name stanza with defaults*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-249 Error merging *first stanza name stanza with second stanza name stanza*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-250 Error inserting intlist. Element is not an array.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-251 Error inserting stringlist. Element is not an array.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-252 Error writing stanza *stanza name*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

---

**2539-253 Cannot write config file *config file name*.**

**Explanation:** Error writing to configuration file.

**User Response:** Check for existence of file and access permissions.

---

**2539-254 Cannot write final record for file *file name*.**

**Explanation:** Error writing to named file.

**User Response:** Check for existence of file and access permissions.

---

**2539-255 Verify is not implemented for the *stanza name stanza*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-256 Error writing stanza type *stanza type*.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, call IBM Service.

---

**2539-257 Error reading file *file name*.**

**Explanation:** Failed to read user's preferred configuration file.

**User Response:** Check file permissions and existence.

---

**2539-258 Username *user name* not in passwd file.**

**Explanation:** Default LoadLeveler user name cannot be found in /etc/passwd.

**User Response:** Make sure default LoadLeveler user name exists in system.

---

**2539-259 Groupid *group id* not in group file.**

**Explanation:** Default LoadLeveler group id cannot be found in /etc/group.

**User Response:** Make sure default LoadLeveler group name exists in system.

---

**2539-260 Group *group name* not in group file.**

**Explanation:** Default LoadLeveler group name cannot be found in /etc/group.

**User Response:** Ensure default LoadLeveler group name exists on system.

---

**2539-261 Unable to obtain name of operating system from configuration file.**

**Explanation:** Unable find value for OpSys in configuration file.

**User Response:** Define a value for OpSys.

---

**2539-262 Error processing config file *configuration file name at line line number*.**

**Explanation:** Error parsing configuration file.

**User Response:** Check configuration file syntax at line number where error occurred.

---

**2539-263 Local configuration file not specified in LoadL\_config. Proceeding...**

**Explanation:** No LoadL\_config.local file was defined in the global LoadL\_config file.

**User Response:** Define LoadL\_config.local files on machines which are to override defaults in global LoadL\_config file.

---

---

**2539-264 Error processing local configuration file *file name!* Proceeding ...**

**Explanation:** Error processing LoadL\_config.local. Values will be used from global LoadL\_config instead.

**User Response:** Check LoadL\_config.local 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 lines under 2K bytes in length.

---

**2539-266 Exiting ...**

**Explanation:** Program is exiting.

**User Response:** Refer to previous error message for cause.

---

**2539-267 Error in configuration file *file name*, line *line number*: Illegal identifier: *illegal string*.**

**Explanation:** Syntax error in configuration file.

**User Response:** Check identified line number for error.

---

**2539-268 Attention: *keyword* keyword from local configuration file, *filename*, will be ignored.**

**Explanation:** Invalid keyword encountered.

**User Response:** Check configuration file for invalid keywords.

---

**2539-269 Out of memory.**

**Explanation:** Severe error - out of memory.

**User Response:** Make memory available.

---

**2539-270 Expression syntax error in config file *file name*, line *line number*.**

**Explanation:** Bad expression syntax.

**User Response:** Correct the expression at the indicated line number.

---

**2539-271 Configuration file line too long.**

**Explanation:** Line longer than 2048 bytes.

**User Response:** Check configuration file for lines that exceed 2048 bytes in length

---

**2539-272 Attention: Line length is greater than 8191 bytes. Input data may be truncated.**

**Explanation:** Line longer than 8K bytes.

**User Response:** Check configuration file for lines that exceed 8191 bytes in length

---

**2539-273 Error in configuration file *file name*, line *line number*: Syntax error.**

**Explanation:** Syntax error in configuration file.

**User Response:** Check identified line number for error.

---

---

**2539-274** `gethostname` routine failed, `errno = errno`.

**Explanation:** LoadLeveler `gethostname` routine failed.

**User Response:** Internal LoadLeveler error. If problem persists, call IBM Service

---

**2539-275** `host.domain` string length exceeds *length*.

**Explanation:** Invalid domain length in `LoadL_admin`.

**User Response:** Check machine domain names in `LoadL_admin` file for correctness.

---

**2539-276** Unable to `calloc` *number of bytes* bytes for new hostent `h_aliases` array.

**Explanation:** Out of memory.

**User Response:** Make adequate memory available.

---

**2539-277** Unable to re-allocate *number of bytes* bytes for new hostent `h_aliases` array.

**Explanation:** Out of memory.

**User Response:** Make adequate memory available.

---

**2539-278** Unable to `calloc` *number of bytes* bytes for new hostent `h_addr_list` array.

**Explanation:** Out of memory.

**User Response:** Make adequate memory available.

---

**2539-279** Unable to re-allocate *number of bytes* bytes for new hostent `h_aliases` array.

**Explanation:** Out of memory.

**User Response:** Make adequate memory available.

---

**2539-280** Unable to `malloc` *number of bytes* bytes for interface address array.

**Explanation:** Out of memory.

**User Response:** Make adequate memory available.

---

**2539-281** A NULL pointer to the machine stanzas was received in `LIConfig::read`.

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists after reconfiguring LoadLeveler, contact IBM Service.

---

**2539-282** A NULL pointer to the default machine stanza was received in `LIConfig::read`.

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists after reconfiguring LoadLeveler, contact IBM Service.

---

**2539-283** Could not obtain enum value for `machine` in `LIConfig::read`.

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists after reconfiguring LoadLeveler, contact IBM Service.

---

---

**2539-284 Could not create a default\_value LIMachine object in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Service.

---

**2539-285 Could not instantiate a Machine object for the host machine in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Service.

---

**2539-286 Could not instantiate a Machine object for *machine name* in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If 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:** Invalid value.

**User Response:** Ensure correctness of LoadL\_admin stanzas.

---

**2539-288 The negative number *pool\_list value* found in *pool\_list* of the *machine name machine\_stanza* is not allowed. Ignored.**

**Explanation:** Invalid value.

**User Response:** Do not use negative numbers in a machine pool list.

---

**2539-289 Could not locate the official host name for machine *machine name* in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Service.

---

**2539-290 Feature statement with *number of characters* characters exceeds limit of 1024.**

**Explanation:** Feature statement in configuration file is too long.

**User Response:** Do not exceed 1024 bytes in configuration file feature lines.

---

**2539-291 Feature values are not set.**

**Explanation:** Feature values will not take effect due to syntax errors.

**User Response:** See previously issued error message for explanation.

---

**2539-292 Class statement with *number of characters* characters exceeds limit of 1024.**

**Explanation:** Class statement too long.

**User Response:** Do not specify class stanzas that exceed 1024 bytes in length.

---

**2539-293 Default No\_Class assumed.**

**Explanation:** A default class value of No\_Class will be used.

**User Response:** See previously issued error message for explanation.

---



---

**2539-294 Attention: Invalid format found for class statement. Missing braces.**

**Explanation:** Bad class statement syntax.

**User Response:** Refer to documentation for correct syntax.

---

**2539-295 Attention: Invalid format found for class statement. Missing double quotes.**

**Explanation:** Bad class statement syntax.

**User Response:** Refer to documentation for correct syntax.

---

**2539-296 Could not obtain an enum value for *stanza type* in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** Contact IBM Service if problem persists.

---

**2539-297 Could not instantiate a default *stanza name* object in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** Contact IBM Service if problem persists.

---

**2539-298 Could not instantiate a *stanza type* object for *stanza name* in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Service.

---

**2539-299 A value of *value* was specified for *max\_adapter\_window* in the *stanza name stanza*. Valid values are 1 - 4 inclusive. Default value of 4 will be used.**

**Explanation:** Default value to be used in place of user-supplied value.

**User Response:** Refer to documentation 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 non-existent adapter stanza was referenced in a machine stanza.

**User Response:** Refer only to existing adapter stanzas in machine stanzas.

---

**2539-301 Could not instantiate a *stanza type* object in LIConfig::read.**

**Explanation:** Internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Service.

---

**2539-302 Attention: A value for both SCHEDULER\_TYPE and SCHEDULER\_API has been specified. SCHEDULER\_TYPE will be used.**

**Explanation:** Two conflicting keywords were used.

**User Response:** Only use SCHEDULER\_TYPE in the configuration file.

---

**2539-303 DCE\_AUTHENTICATION is not valid. DCE authentication will not be transmitted with job.**

**Explanation:** Invalid keyword was used.

**User Response:** Do not specify DCE\_AUTHENTICATION.

---

---

**2539-304** The configuration keyword *keyword name* contains the invalid value *keyword value* . The default value will be used instead.

**Explanation:** Invalid keyword value specified.

**User Response:** Refer to documentation 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 LoadL\_admin file.

**User Response:** Make sure all LoadL\_admin 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 documentation for LoadL\_admin stanza syntax.

---

**2539-307** Attention: Unknown keyword *keyword* in *stanza type* stanza *stanza name*. Ignored.

**Explanation:** An unknown keyword was found in the identified stanza.

**User Response:** Refer to documentation for LoadL\_admin stanza syntax.

---

**2539-308** Attention: Invalid value entered for `spacct_exclude_enable` for machine stanza *machine name* . Default value will be used.

**Explanation:** Invalid value entered for `spacct_exclude_enable` for indicated machine stanza.

**User Response:** Refer to documentation for correct values.

---

**2539-309** Attention: Value missing for *keyword* keyword in *stanza type* stanza.

**Explanation:** A stanza was defined without the identified keyword.

**User Response:** Ignore this message if you do not wish to define the associated keyword for this stanza, otherwise, add the keyword and reconfigure LoadLeveler.

---

**2539-310** Attention: Invalid value for *keyword* in LoadL\_admin file: *keyword value*

**Explanation:** An invalid value was specified for the identified keyword.

**User Response:** Refer to documentation 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 documentation 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 identified stanza.

**User Response:** Add required keyword to stanza and reconfigure LoadLeveler.

---

---

**2539-313 Attention: A `css adapter` was specified for `adapter: adapter stanza name` but no `switch_node_number` was found. Default value will be used.**

**Explanation:** No `switch_node_number` was associated with the identified adapter stanza. Default will be used.

**User Response:** Specify `switch_node_number` for the identified adapter stanza if you do not want the default to be used.

---

**2539-314 Duplicate central manager specified. Stanza for machine *machine name* will be ignored.**

**Explanation:** The identified machine was defined as a duplicate central manager.

**User Response:** Only define one machine stanza with "`central_manager = yes`" in the `LoadL_admin` file.

---

**2539-315 `RM_HOST` ignored for machine stanza *machine name* .**

**Explanation:** Obsolete keyword `rm_host` was used in a machine stanza.

**User Response:** Do not use the `rm_host` keyword any longer. Refer to the documentation 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 keyword was specified with no value.

**User Response:** Specify an appropriate value for the keyword or remove the keyword... and 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 `LoadL_admin` file.

---

**2539-321 *resource limit name* resource limit has a value that is too long: *value***

**Explanation:** The identified resource limit has a syntax error.

**User Response:** Refer to documentation for correct resource limit values.

---

---

**2539-322 Invalid stanza *stanza name*. Ignored.**

**Explanation:** The identified stanza has an invalid type.

**User Response:** Refer to documentation for correct LoadL\_admin stanza types.

---

**2539-323 Unable to obtain *resource limit name* resource limit.**

**Explanation:** A system error was returned by the AIX subroutine getrlimit for the indicated resource limit.

**User Response:** Make sure the resource limit name is correct. If the name is correct, report the machine issuing the error to IBM Service.

---

**2539-324 Unable to create central manager list, no machine list provided.**

**Explanation:** A list of central manager cannot be created because no machine stanzas exist in the LoadL\_admin file.

**User Response:** Define at least one machine as the primary central manager in the LoadL\_admin file.

---

**2539-325 Unable to find a central manager in the LoadL\_admin file.**

**Explanation:** Unable to find a central manager machine stanza in the LoadL\_admin file.

**User Response:** Define at least one machine as the primary central manager in the LoadL\_admin file.

---

**2539-381 Unable to malloc *num* bytes for DCE credentials file.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

**2539-382 Cannot read *filename*. Cannot fetch DCE security credentials.**

**Explanation:** Unable to read DCE credentials file.

**User Response:** Make sure permissions on credentials cache and files are adequate.

---

**2539-383 Cannot open *filename*. Cannot fetch DCE security credentials.**

**Explanation:** Unable to open DCE credentials file.

**User Response:** Make sure permissions on credentials cache and files are adequate.

---

**2539-384 Cannot open directory *directory\_name*. Cannot fetch DCE security credentials.**

**Explanation:** Unable to open directory containing DCE credentials files.

**User Response:** Make sure permissions on credentials the specified directory are adequate.

---

**2539-385 No DCE files with prefix *file\_prefix* were found in sub-directory *directory\_name*.**

**Explanation:** No DCE credentials files were found.

**User Response:** Ensure DCE credentials are obtained before invoking llsubmit.

---

---

**2539-386 Unable to malloc *num* bytes for opaque object.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

**2539-387 Unable to create opaque credentials object.**

**Explanation:** Unable to marshal DCE credentials into xdr format.

**User Response:** This problem requires the attention of an administrator.

---

**2539-388 DCE\_AUTHENTICATION\_PAIR keyword is not valid.**

**Explanation:** An invalid keyword was entered.

**User Response:** Correct keyword in LoadLeveler configuration file.

---

**2539-389 Cannot spawn new GetDce Process. errno - *error\_num*.**

**Explanation:** Unable to fork and exec process (llgetdce) to fetch DCE credentials.

**User Response:** This problem requires the attention of an administrator.

---

**2539-390 Unable to read length of opaque object from process pipe, read returned *return\_code*.**

**Explanation:** The opaque object contains the DCE credentials fetched by the llgetdce process.

**User Response:** This problem requires the attention of an administrator.

---

**2539-391 Unable to malloc *num* bytes for opaque object.**

**Explanation:** Unable to allocate memory

**User Response:** Free up memory on local host.

---

**2539-392 Unable to read opaque object from process pipe, read returned *return\_code*.**

**Explanation:** The opaque object contains the DCE credentials fetched by the llgetdce process.

**User Response:** This problem requires the attention of an administrator.

---

**2539-393 Unable to read stderr from child, read returned *return\_code*.**

**Explanation:** The failure occurred when LoadLeveler tried to read from the stderr pipe 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 the DCE credentials fetched by the llgetdce process.

**User Response:** This problem requires the attention of an administrator.

---

**2539-395 Failed to write opaque object to stdout, errno = *error\_num*.**

**Explanation:** The opaque object contains the DCE credentials fetched by the llgetdce process.

**User Response:** This problem requires the attention of an administrator.

---

---

**2539-416 User failed username security validation. Username did not match expected name, expected username .**

**Explanation:** User name did not match primary LoadLeveler user name (for example, "load").

**User Response:** Ensure that /etc/LoadL.cfg contains the same LoadLeveler user name for all machines in the cluster.

---

**2539-417 Cannot receive hostname from client.**

**Explanation:** Error receiving hostname from connecting host.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-418 Cannot send hostname.**

**Explanation:** Error sending hostname to another host.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-419 Attention: Host name returned by validate\_connection (*validate\_connection host name*) does not match caller host name (*caller host name*)**

**Explanation:** Name service returned a different name for this host than the name that was expected.

**User Response:** No action - this is an attention message.

---

**2539-420 Connection from *hostname* rejected; not in machine list.**

**Explanation:** Host failed validation because MACHINE\_AUTHENTICATE = TRUE and host is not in LoadL\_admin machine list.

**User Response:** Add host to LoadL\_admin machine list if you want it to participate in the LoadLeveler cluster.

---

**2539-421 Cannot receive remote host name (*IP address port port number*) errno = *error num***

**Explanation:** gethostbyaddr() failed for IP address.

**User Response:** Set MACHINE\_AUTHENTICATE to false to allow all hosts to participate, or check validity of IP address.

---

**2539-422 ProtocolReset: Cannot send protocol version.**

**Explanation:** Error sending daemon protocol version.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-423 ProtocolReset: Cannot send machine name.**

**Explanation:** Error sending host name.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

---

**2539-424 Cannot send step** *job step name*.

**Explanation:** Error sending job step information.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-425 Cannot send end of record for step** *job step name*.

**Explanation:** Error sending transaction end-of-record marker.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-426 Cannot send step id** *job step name*.

**Explanation:** Error sending job step id.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-427 Error receiving acknowledgement for step** *job step name*.

**Explanation:** Error receiving transaction acknowledgement for a job step.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-428 ProtocolReset: Cannot receive protocol version.**

**Explanation:** Cannot receive protocol version from connecting machine.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-429 ProtocolReset: Cannot receive machine name.**

**Explanation:** Cannot receive name of connecting machine.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-430 Attention: Routing default machine.**

**Explanation:** Routing an entire machine object rather than transaction-specific machine data.

**User Response:** Attention message: no action required.

---

**2539-431 Unrecognized specification:** *specification name (specification value)*

**Explanation:** Erroneous machine data encountered.

**User Response:** Internal LoadLeveler routing error. If problem persists, recycle LoadLeveler daemons.

---

**2539-432 Invalid value defined in the stanza type stanza stanza name for keyword = value.**

**Explanation:** Invalid value defined for keyword in the named stanza.

**User Response:** Validate correctness of stanzas in LoadL\_admin file.

---

---

**2539-433 Invalid keyword** *keyword* **specified in the stanza type stanza stanza name.**

**Explanation:** Invalid keyword defined in the named stanza.

**User Response:** Validate correctness of stanzas in LoadL\_admin file.

---

**2539-434 The keyword keyword specified in the stanza type stanza stanza name cannot be NULL.**

**Explanation:** A keyword was specified with a NULL value in the named stanza.

**User Response:** Validate correctness of stanzas in LoadL\_admin file.

---

**2539-435 Cannot append to keyword in the stanza name stanza type stanza.**

**Explanation:** Error appending a value to a keyword in the named stanza.

**User Response:** Ensure 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:** Central manager machine could not be found in this daemon's configuration.

**User Response:** Make sure the central manager is defined in the LoadL\_admin file and that it, or an alternate, is running.

---

**2539-437 No log directory specified in the LoadL\_config file for this daemon.**

**Explanation:** No log directory specified in the LoadL\_config file for this daemon.

**User Response:** Specify a log file for this daemon in the LoadL\_config file, and reconfigure.

---

**2539-438 Attention: Cannot chdir to directory name. Attempting to continue...**

**Explanation:** Unable to change to the log directory.

**User Response:** Check existence and permissions of directory.

---

**2539-439 No spool directory specified in the LoadL\_config file.**

**Explanation:** Path for the local spool directory was not specified in the LoadL\_config file.

**User Response:** Add a path for the local spool directory to the LoadL\_config file and reconfigure or restart daemons.

---

**2539-440 No execute directory specified in the LoadL\_config file.**

**Explanation:** Path for the local execute directory was not specified in the LoadL\_config file.

**User Response:** Add a path for the local execute directory to the LoadL\_config file and reconfigure or restart daemons.

---

**2539-441 Attention: Cannot set userid to uid number(user name). Attempting to continue...**

**Explanation:** Error setting effective userid.

**User Response:** Make sure daemon runs as root, and check validity of uid.

---



---

**2539-442 Attention: Cannot set groupid to *gid number(group name)*. Attempting to continue...**

**Explanation:** Error setting effective groupid.

**User Response:** Make sure daemon runs as root, and check validity of gid.

---

**2539-443 No history file specified in the LoadL\_config file.**

**Explanation:** No history file specified in the LoadL\_config file.

**User Response:** Add history file to LoadL\_config and reconfigure or restart daemons.

---

**2539-444 Attention: Value specified for *cm\_heartbeat\_interval* is invalid. Default value (= default *cm\_heartbeat\_interval* value) will be used.**

**Explanation:** Value specified for *cm\_heartbeat\_interval* is invalid.

**User Response:** Refer to LoadLeveler documentation 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:** Value specified for *cm\_timeout* is invalid.

**User Response:** Refer to LoadLeveler documentation for correct *cm\_timeout* settings.

---

**2539-446 No central manager defined. Cannot continue.**

**Explanation:** No central manager defined in the LoadL\_admin file.

**User Response:** Define a central manager in the LoadL\_admin file and restart LoadLeveler.

---

**2539-447 LInetProcess: Unable to instantiate LIConfig object.**

**Explanation:** Unable to allocate internal LoadLeveler data structure.

**User Response:** Ensure sufficient memory is available on machine. Save logs and contact IBM Service if problem persists.

---

**2539-448 Syntax error in LoadLeveler configuration files.**

**Explanation:** Syntax error in config file.

**User Response:** Check syntax of LoadL\_config and LoadL\_admin files.

---

**2539-449 Unable to instantiate this\_machine object.**

**Explanation:** Unable to allocate internal LoadLeveler data structure.

**User Response:** Ensure sufficient memory is available on machine. Save logs and contact IBM Service if problem persists.

---

**2539-450 Unable to instantiate this\_cluster object.**

**Explanation:** Ensure sufficient memory is available on machine.

**User Response:** Save logs and contact IBM Service if problem persists.

---

---

**2539-451 Attention: No administrator list specified in LoadL\_config file.**

**Explanation:** No administrator list specified in LoadL\_config file.

**User Response:** Specify an administrator list in the LoadL\_config file in order for administrative functions to be enabled.

---

**2539-452 daemon name is orphaned! Exiting...**

**Explanation:** Daemon is no longer a child of the LoadL\_master daemon.

**User Response:** Check logs to diagnose problem, or simply 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. Run "llctl -v" to verify daemon and command versions.

**User Response:** Run "llctl -v" to verify daemon and command versions. Contact LoadLeveler administrator if a software upgrade is needed.

---

**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 daemon and command versions on all machines. Contact LoadLeveler administrator if a software upgrade is needed.

---

**2539-455 Attention: Allocating base Machine object.**

**Explanation:** LoadLeveler is allocating a generic machine, not a LoadLeveler-defined machine.

**User Response:** Internal LoadLeveler condition. If problem persists, contact IBM Service.

---

**2539-456 Cannot allocate Machine object for new machine: machine name**

**Explanation:** Memory allocation error.

**User Response:** Ensure adequate memory is available on machine where error occurs.

---

**2539-457 Cannot gethostbyname for machine: machine name**

**Explanation:** gethostbyname() routine returned an error for named machine.

**User Response:** Ensure that machine exists and that the name being used is resolvable. Verify that LoadL\_admin contains valid machine names.

---

**2539-458 Unable to find or allocate Machine object for machine(machine name or IP address).**

**Explanation:** Internal LoadLeveler trying to locate data for the named machine.

**User Response:** Ensure adequate memory is available on machine where error occurs. Verify that LoadL\_admin contains valid machine names.

---

---

**2539-459 Cannot gethostbyaddr for machine:** *machine name*

**Explanation:** gethostbyaddr() routine returned an error for named machine.

**User Response:** Ensure that machine exists and that the address being used is resolvable. Verify that LoadL\_admin contains valid machine names.

---

**2539-460 Cannot start thread for service** *service type on port port number. rc = return code*

**Explanation:** Error creating LoadLeveler thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-461 Attention: Connection to** *machine name port port number* **reset. Retrying...**

**Explanation:** Attempting to reconnect to named machine via indicated port.

**User Response:** Attention message - no action.

---

**2539-462 Attention: Connection to** *machine name path socket path* **reset. Retrying...**

**Explanation:** Attempting to reconnect to named machine via indicated socket path.

**User Response:** Attention message - no action.

---

**2539-463 Cannot connect to** *machine name service name* **on port** *port number. errno = errno*

**Explanation:** Error connecting to named service on named machine and port.

**User Response:** Check errno value and take appropriate action.

---

**2539-464 Cannot connect to** *machine name path socket path. errno = errno.*

**Explanation:** Error connecting to named machine via indicated socket path.

**User Response:** Check errno value and take appropriate action.

---

**2539-465 sendFile: Cannot get file size. errno = errno**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-466 sendFile: Cannot send file size. errno = errno.**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-467 sendFile: Cannot flush file size. errno = errno**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

---

**2539-468 sendFile: Cannot read ready-to-receive. errno = *errno***

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-469 sendFile: Requestor refuses file.**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Call IBM Service if problem persists.

---

**2539-470 sendFile: Cannot flush file. errno = *errno***

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-471 sendFile: No FileDesc specified.**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** If the problem persists, contact IBM service.

---

**2539-472 receiveFile: Cannot receive file size. errno = *errno*.**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-473 receiveFile: Cannot send status. errno = *errno*.**

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-474 receiveFile: Cannot flush file size. errno = *errno***

**Explanation:** Error performing internal LoadLeveler file operation.

**User Response:** Use errno value to attempt to identify problem. Call IBM Service if problem persists.

---

**2539-475 Cannot receive command from client *machine name*, errno = *errno*.**

**Explanation:** Internal LoadLeveler transaction error.

**User Response:** Recycle daemons if problem persists. Call IBM Service if recycling daemons does not alleviate problem.

---

**2539-476 Got unknown command (*command value*)**

**Explanation:** Internal LoadLeveler transaction error.

**User Response:** Recycle daemons if problem persists. Call IBM Service if recycling daemons does not alleviate problem.

---

**2539-477 Cannot fork child process. errno = *errno***

**Explanation:** Error forking child process.

**User Response:** Use errno value to diagnose problem.

---

---

**2539-478 Cannot change process group. errno = *errno***

**Explanation:** Error changing process group.

**User Response:** Use errno value to diagnose problem.

---

**2539-479 Cannot listen on port *port number* for service *service name*.**

**Explanation:** Error listening on port for named service.

**User Response:** Check to see if named service is already running on machine. Check to see if port is in use.

---

**2539-480 Cannot start main socket. errno = *errno***

**Explanation:** Error starting socket.

**User Response:** User errno value to diagnose problem.

---

**2539-481 Cannot start new TransAction thread. rc = *return code***

**Explanation:** Error creating LoadLeveler Transaction thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-482 Cannot start new Stream Connection thread. rc = *return code*.**

**Explanation:** Error creating LoadLeveler Stream thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-483 Cannot perform chmod on input socket *socket path*. errno = *errno***

**Explanation:** Error changing permissions on socket path.

**User Response:** Check existence of socket path and authentication of process attempting chmod.

---

**2539-484 Cannot start unix socket on path *socket path*. errno = *errno***

**Explanation:** Error starting UNIX socket.

**User Response:** Use errno value to diagnose problem.

---

**2539-485 Cannot start new Unix Connection thread. rc = *return code*.**

**Explanation:** Error starting LoadLeveler UNIX Connection thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-486 Cannot start new datagram Connection thread. rc = *return code*.**

**Explanation:** Error starting LoadLeveler datagram Connection thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-488 The *daemon name* daemon must be run as root.**

**Explanation:** The named daemon can only be run by the root user.

**User Response:** su to root and run daemon.

---

---

**2539-489 Unable to open /dev/null (errno = *errno*) to re-direct stdin. Continuing.**

**Explanation:** Daemon creation error.

**User Response:** Use errno to diagnose problem.

---

**2539-490 Unable to open /dev/null (errno = *errno*) to re-direct stdout. Continuing.**

**Explanation:** Daemon creation error.

**User Response:** Use errno to diagnose problem.

---

**2539-491 Cannot start main thread. rc = *return code***

**Explanation:** Error initializing main daemon thread.

**User Response:** Ensure sufficient memory is available and recycle LoadLeveler. If problem persists, contact IBM Service.

---

**2539-492 Unable to set\_user\_euid(*uid number*)**

**Explanation:** Failure to set effective user id.

**User Response:** Check setuid permissions of daemon binary file.

---

**2539-493 Unable to set\_user\_ruid(*uid number*)**

**Explanation:** Failure to set real user id.

**User Response:** Contact LoadLeveler administrator if problem persists.

---

**2539-494 Unable to chdir to /tmp: *strerr* error text**

**Explanation:** Error changing to /tmp directory.

**User Response:** Use strerr() output to diagnose problem.

---

**2539-566 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 may be an internal LoadLeveler problem.

**User Response:** If problem persists, contact IBM Support.

---

**2539-567 *object fetch function* does not recognize specification *field*(*specification code*)**

**Explanation:** A field was requested from an object but the field identifier is not known by the object. This is an internal LoadLeveler error.

**User Response:** If problem persists, contact IBM Support.

---

**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. (Internal LoadLeveler Error).

**User Response:** If problem persists, contact IBM Support.

---

**2539-591 *internal context* (*specification number*) not recognized by fetch()**

**Explanation:** Unrecognized data type.

**User Response:** Call IBM Service.

---

**2539-592** *internal context (specification number)* **not recognized by insert()**

**Explanation:** Unrecognized data type.

**User Response:** Call IBM Service.

---

**2539-593** **Cannot rename** *file name* **to** *new file name*. **Logging may be incomplete.**  
**errno = errno**

**Explanation:** Cannot rename a file to file name with .old extension.

**User Response:** Check filesystem space and permissions.

---

**2539-594** **Cannot open input file** *file name* **for copy, errno = errno.**

**Explanation:** Cannot open file for input.

**User Response:** Check existence and permissions of file.

---

**2539-595** **Cannot open log file** *file name*, **errno = errno. Logging will go to stderr.**

**Explanation:** Cannot open log file. Check file existence and permissions.

**User Response:**

---

**2539-596** **No name specified for log file. Logging will go to stderr.**

**Explanation:** No log file name was specified in LoadLeveler configuration files for this daemon.

**User Response:**

---

**2539-597** **Error** *non-translated error line source line number file file name.*

**Explanation:** Non-translated source code error message.

**User Response:** Report this error to IBM Service.

---

**2539-598** **Job** *job number. step number* - **ERROR, usage\_info has not been initialized.**

**Explanation:** Error recording job usage information.

**User Response:** Drain and then recycle LoadL\_startd daemon.

---

**2539-599** **Job** *job number.step number* - **Unable to malloc** *number of bytes* **bytes for a MACH\_USAGE struct**

**Explanation:** Error allocating memory.

**User Response:** Make memory available on host machine.

---

**2539-600** **Unable to create string for copy of** *file name.*

**Explanation:** Memory allocation error.

**User Response:** Ensure sufficient memory is available on host machine.

---

**2539-601** **Incorrect status file name** - *file name.*

**Explanation:** Status file name error.

**User Response:** Drain LoadLeveler on host machine and recycle daemons.

---

---

**2539-602 status file, file name, already exists**

**Explanation:** Status file already exists.

**User Response:** none

---

**2539-603 Cannot create status file, file name, errno = errno error message.**

**Explanation:** Cannot create file.

**User Response:** Check file permissions and path and filesystem space.

---

**2539-604 Cannot open status file, file name, errno = errno error message.**

**Explanation:** Cannot open file.

**User Response:** Check file permissions and path and filesystem space.

---

**2539-605 Cannot remove status file, file name, errno = error number error message.**

**Explanation:** Error deleting file.

**User Response:** Check file path and permissions.

---

**2539-606 Cannot write number bytes to status file, filename, errno = errno error message.**

**Explanation:** Error writing to file.

**User Response:** Check file path and permissions and filesystem space.

---

**2539-607 lseek failed for status file, file name, offset = file offset, whence = offset usage flag, errno = errno error message.**

**Explanation:** Failure to set file pointer.

**User Response:** Check file path and permissions.

---

**2539-608 Cannot remove usage file, file name, errno = errno error message.**

**Explanation:** Error trying to delete file.

**User Response:** Check file path name and permissions.

---

**2539-609 Cannot open usage file filename to read. errno = error num.**

**Explanation:** Cannot open file.

**User Response:** Check file path name and permissions and available filesystem space.

---

**2539-610 Cannot route dispatch usage for file filename.**

**Explanation:** Cannot send file to peer daemon.

**User Response:** Ensure LoadLeveler is running on all involved machines.

---

**2539-611 Cannot open usage file filename to write. errno = error num**

**Explanation:** Cannot open file.

**User Response:** Check file path name and permissions.

---

**2539-612 Cannot write dispatch usage file filename.**

**Explanation:** Cannot write to file.

**User Response:** Check file path name and permissions.

---



---

**2539-751** *getrlimit or setrlimit for resource name limit failed. errno=errno error msg.*

**Explanation:** The getrlimit or setrlimit system call failed.

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

---

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

---

**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 executing machines.

**User Response:** Configure LoadLeveler to allow user to only run on machines with the same uid or change uids 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 be a valid group for the user on the executing machine.

**User Response:** Configure LoadLeveler to allow user to only run on machines where the gid is valid or change add the gid to the user's group list on all 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:** Correct the problem indicated by the error number.

---

**2539-756** *The setregid system call failed for gid gid. errno=error num error msg.*

**Explanation:** The setregid system call failed.

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

---

**2539-757** *object ID does not have a StepVars object.*

**Explanation:** The object was asked for its global keyword value structure but one does not exist. The object can be a Job, Step or StepList.

**User Response:** Report the error to the LoadLeveler administrator. Verify that the Job in the source file is correct.

---

**2539-758** *object ID does not have a TaskVars object.*

**Explanation:** The 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. 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 object was asked for its global keyword value structure but does not keep one locally and is not contained by an object that does (eg. A node would return the StepVars of the Step that contains it).

**User Response:** Report the error to the LoadLeveler administrator. Verify that the Job in the source file is correct.

---

**2539-760** *Attempt to reassign Task instances to Step step name.*

**Explanation:** An attempt was made to create the task instances for a Step after machine assignments were made but the Step was found to already have task instances. This indicates a corruption of 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 object was asked for its global keyword value structure but does not keep one locally and is not contained by an object that does (eg. A task instance would return the TaskVars of the task that contains it).

**User Response:** Report the error to the LoadLeveler administrator. Verify that the Job in the source file is correct.

---

**2539-762** *Failed to set AFS credentials. errno=error num error msg.*

**Explanation:** A failure occurred trying to establish AFS token(s).

**User Response:** Verify that AFS is installed on executing machine. Verify 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:** A failure occurred trying to establish DCE credentials.

**User Response:** Verify that DCE is installed on executing machine. Verify that executables specified in DCE\_AUTHENTICATION\_PAIR exist. Use errno to help identify the cause of the problem.

---

**2539-764** *Unable to import DCE context. Will continue without credentials. errno=error num error msg.*

**Explanation:** Unable to import DCE credentials returned by the llsetdce executable.

**User Response:** Verify that llsetdce, or its replacement, exists and matches the interface for a LoadLeveler dce authentication exit.

---

**2539-765** *Unable to remove DCE credentials.*

**Explanation:** LoadLeveler was unable to remove DCE credentials.

**User Response:** Monitor the DCE credential cache to see if excess credentials are being left by LoadLeveler.

---

**2539-766** *Unable to fetch DCE credentials. DCE credentials will not be included in job submission.*

**Explanation:** 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:** Self explanatory.

**User Response:** Verify that the STARTER keyword is correctly specified 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. The additional information specifies why.

**User Response:** Correct the problem as indicated by the message and errno.

---

**2539-769 *function name:* Error retrieving Job StepList from Queue. Unable to route step type.**

**Explanation:** The job in the job queue has been corrupted 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 corrupted and could not be retrieved.

**User Response:** Contact the LoadLeveler administrator.

---

**2539-771 Invalid data type= *data type* in *function name*.**

**Explanation:** Internal error.

**User Response:** Contact the LoadLeveler administrator.

---

**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 problem persists, contact IBM service.

---

**2544-851 Wall\_clock\_limit not specified, but is required when using Backfill scheduler.**

**Explanation:** No value could be found in the job command file or in the admin file for wall\_clock\_limit. This limit must be specified when using the BACKFILL 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 in the admin file. Refer to Using and Administering LoadLeveler 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 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 Using and Administering LoadLeveler 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 statements in the job just submitted. The job step will not be run.

**User Response:** Use the Backfill (or some other) scheduler that supports multiple adapter requests. Refer to Using and Administering LoadLeveler 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 Using and Administering LoadLeveler 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:** Step could not be scheduled because there were not enough free initiators available.

**User Response:** Increase the number of initiators, or wait until some jobsteps of this class complete, and 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 user has reached the maximum number of steps that can be run as coded in the maxjobs keyword in the user stanza in the admin file. The jobstep will not be run.

**User Response:** The user can wait until some of his 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 group has reached the maximum number of steps that can be run as coded in the maxjobs keyword in the group stanza in the admin 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 class has reached the maximum number of steps that can be run as coded on the maxjobs keyword in the class stanza in the admin 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 *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 that can be run as coded on the `max_jobs_scheduled` keyword in the machine stanza in the admin file.

**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:** A machine name was found in the hostlist that does not match any known machines in the cluster. The step will not be run.

**User Response:** Add the machine to the cluster or remove it from the hostlist and resubmit the job.

---

**2544-861 Machine *machine name* in hostlist is unavailable when Step *step id* is being considered.**

**Explanation:** A machine name was found in the hostlist that is not currently available. The step will not be run.

**User Response:** Wait until that machine becomes available, or remove it from the hostlist and 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 requires not shared nodes. The step will not be run.

**User Response:** Wait until that machine frees up, or remove it from the hostlist and 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:** Wait until that machine frees up, or remove it from the hostlist and 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 that can be run as coded on the `max_starters` keyword in the config file. The step will not be run.

**User Response:** The user can wait until some of the machines's jobs complete, or the administrator can increase the `max_starters` keyword.

---

**2544-865 Machine *machine name* in hostlist is not currently allowed to run steps when Step *step id* is being considered.**

**Explanation:** The machine found in the hostfile is not currently allowed to run jobs as coded in the config file's execution window when the step is being considered. The step will not be run.

**User Response:** Modify the execution window for the given machine, or remove the machine from the hostlist and try again.

---

**2544-867** Machine *machine name* does not have free adapter to run the Step *step id*.

**Explanation:** The adapter on the machine listed is being currently in use.

**User Response:** Wait until the jobstep(s) using the adapter complete, and 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:** This step was being considered to be scheduled as a "backfill" candidate, but scheduling this step at this time will interfere with the scheduling of a higher priority step, since resources that this step required have already been assigned to the higher priority step.

**User Response:** Try running jobstep again.

---

**2544-869** Step *step id* was marked "not runnable" at *time* due to dependency.

**Explanation:** Step is not runnable because dependency condition evaluated to false.

**User Response:** Fix or eliminate the failing dependency condition that is prohibiting this jobstep from running.

---

**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:** Step was not considered because higher priority jobs already consumed all the available resources.

**User Response:** Increase the priority of the jobstep, or wait until higher priority jobsteps complete, and resubmit the job. Verify that you are requesting valid resources (machines, adapters, classes, etc.)

---

# Error Logging Facility

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

---

## Error Logging Overview

Error logging is the writing of information to persistent storage to be used for debugging purposes. This type of logging is for subsystems that perform a service or function on behalf of an end user. The subsystem does not communicate directly with the end user and, therefore, needs to log events to some storage location. The events that are logged are primarily error events.

LoadLeveler error logging uses AIX error log facilities to report events on a per machine basis. The intent is to have the AIX error log be the starting point for diagnosing system problems. For more information on AIX error log facilities, see *IBM AIX Problem Solving Guide and Reference SC23-2606*, and *IBM General Concepts and Procedures for RISC System/6000 GC23-2202*. For more information on Error Log facilities available with the SP, see *IBM RS/6000 Scalable POWERparallel SP Diagnosis and Messages Guide, SC23-3866*.

Error log entries include a "DETECTING MODULE" string that identifies software component, module name, module level, and line of code or function that detected the event that was logged. The information is formatted depending on the logging facility the user is viewing. 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
```

## How Error Log Events Are Classified

The following table shows the mapping of LoadLeveler error log suffixes to syslog priorities and AIX Error Log error types.

Error Label Suffix	AIX Error Log Error Type	AIX Error Log Description
EM	PEND	The loss of availability of a device is imminent.
ER	PERM	No recovery from this condition. A permanent error occurred.
ST	UNKN	It is not possible to determine the severity of the error.
TR	UNKN	It is not possible to determine the severity of the error.
RE	TEMP	Condition was recovered after several unsuccessful attempts.
DE	UNKN	It is not possible to determine the severity of the error.

## What Events are Recorded

The following events are recorded by the LoadLeveler error logging facility:

- Errors occurring during the initial start up of LoadLeveler daemons
- Installation and customization errors
- The restarts per hour limit being exceeded
- **LoadL\_master** detecting the crash of a daemon
- Changes in the state of a daemon
- LoadLeveler truncating the log files

## Viewing LoadLeveler Error Log Reports

Enter the following command to view the LoadLeveler error reports for a machine:

```
errprt -a -N LoadLeveler
```

## Clearing All LoadLeveler Error Log Entries

Enter the following command to clear all LoadLeveler entries from the error logs of a machine:

```
errrclear -N LoadLeveler 0
```

## Error Notification

You can be notified of a LoadLeveler error when it occurs by using the AIX Error Notification Facility. This facility will perform an ODM method defined by the administrator when a particular error occurs or a particular process fails. *IBM General Concepts and Procedures for RISC System/6000* (GC23-2202) explains how to use the AIX Error Notification Facility.

## Sample Error Log

The following is a sample LoadLeveler error report:



```

LABEL:          LL_TRUNCATE_ST
IDENTIFIER:     05D868E9

Date/Time:      Fri Mar 31 18:07:43
Sequence Number: 271
Machine Id:     000001801000
Node Id:        112
Class:          S
Type:           UNKN
Resource Name:  LoadLeveler

```

Description  
SOFTWARE

Probable Causes  
APPLICATION PROGRAM

User Causes  
FILE NEEDS REORGANIZATION

Recommended Actions  
NO ACTION NECESSARY

Detail Data  
DETECTING MODULE  
LPP=LoadL,Fn=dprintf\_config.c,SID=1.2,L#=392,  
DIAGNOSTIC EXPLANATION  
Logfile "/u/loadl/log/StartLog" was truncated

Figure 1. Sample LoadLeveler Error Log

## Possible Causes for LoadLeveler Errors

Table 2 describes the possible causes for some common problems reported by the error logging facility:

<i>Table 2 (Page 1 of 5). Possible Causes for LoadLeveler Failure</i>	
<b>Label:</b>	LL_INIT_ER
<b>Error Type:</b>	PERM
<b>Diagnostic Explanation:</b>	LoadL_master must be run as root
Explanation:	The ownership and the permissions of <b>LoadL_master</b> file are incorrect
Cause:	This error occurs for one of the following reasons: <ul style="list-style-type: none"> <li>• The <b>LoadL_master</b> file is not owned by root</li> <li>• The <b>LoadL_master</b> file does not have Set User ID permission (the "s" bit)</li> </ul>
Action:	Perform the following actions: <ul style="list-style-type: none"> <li>• Issue <b>chown root LoadL_master</b></li> <li>• <b>chmod u+s LoadL_master</b></li> <li>• Restart LoadLeveler</li> </ul>

Table 2 (Page 2 of 5). Possible Causes for LoadLeveler Failure

<p><b>Label:</b> LL_INIT_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> master: could not set the real uid to ROOT, rc=nn</p> <p>Explanation: Unable to set the real Uid to 0 (root).  Cause: The setuid system call failed for an authorized caller.  Action: Contact the system administrator</p>
<p><b>Label:</b> LL_INIT_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> Error setting group id to nn. errno = nn.</p> <p>Explanation: <b>LoadL_master</b> was unable to set the group ID.  Cause: The setguid() call failed.  Action: Verify that the following are true: <ul style="list-style-type: none"> <li>• <b>LoadLGroupid</b> is defined correctly in <b>/etc/LoadL.cfg</b></li> <li>• The group ID reported in the error description is defined on the system.</li> </ul> </p>
<p><b>Label:</b> LL_START_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> LoadLeveler cannot continue; this host not in machine list</p> <p>Explanation: You attempted to start LoadLeveler on a machine that is not defined in the <b>LoadL_admin</b> file, and MACHINE_AUTHENTICATE = TRUE is set in the <b>LoadL_config</b> file.  Cause: See "Explanation."  Action: Do one of the following: <ul style="list-style-type: none"> <li>• Define the machine in the <b>LoadL_admin</b> file</li> <li>• Set MACHINE_AUTHENTICATE = FALSE in the <b>LoadL_config</b> file</li> </ul> Then, restart LoadLeveler on the machine where the problem occurred.</p>
<p><b>Label:</b> LL_START_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> Cannot start LoadLeveler. Must be the designated LoadLeveler administrator</p> <p>Explanation: A user other than the user defined as the LoadLeveler administrator attempted to start LoadLeveler.  Cause: The <b>LOADL_ADMIN</b> keyword does not contain the user that attempted to start LoadLeveler.  Action: Add the user to the <b>LoadL_admin</b> file.</p>
<p><b>Label:</b> LL_START_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> START_DAEMONS flag was set to <i>value</i>. Exiting.</p> <p>Explanation: <b>LoadL_master</b> could not start the LoadLeveler daemons.  Cause: The <b>START_DAEMONS</b> keyword was not defined or was set to False.  Action: Set START_DAEMONS = true.</p>

Table 2 (Page 3 of 5). Possible Causes for LoadLeveler Failure

<p><b>Label:</b> LL_START_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> Cannot get address of <i>hostname</i> from nameserver; LoadLeveler not starting.</p> <p>Explanation: LoadLeveler could not resolve the hostname of the machine defined as the central manager.  Cause: gethostbyname() failed.  Action: Follow standard procedures for resolving nameserver problems.</p>
<p><b>Label:</b> LL_INSTL_CUST_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> <i>keyword</i> not specified in config file. Admin file not specified in config! Cannot continue.</p> <p>Explanation: The specified keyword is not defined correctly.  Cause: This error occurs for one of the following reasons: <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> Action: Define the keyword correctly.</p>
<p><b>Label:</b> LL_INSTL_CUST_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> <i>keyword=value</i> can not execute</p> <p>Explanation: LoadLeveler was unable to execute the specified keyword (binary).  Cause: This error occurs for one of the following reasons: <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> Action: Correct the problem and reissue the keyword.</p>
<p><b>Label:</b> LL_INSTL_CUST_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> Cannot open file <i>filename</i></p> <p>Explanation: LoadLeveler was unable to open the specified file.  Cause: This error occurs for one of the following reasons: <ul style="list-style-type: none"> <li>• Incorrect permissions are set for the file</li> <li>• The file does not exist</li> </ul> Action: Correct the problem with file.</p>
<p><b>Label:</b> LL_RESTART_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> Exceeded nn restarts / hour</p> <p>Explanation: <b>LoadL_master</b> exceeded the maximum allowed restarts for a daemon, as defined by the <b>RESTARTS_PER_HOUR</b> keyword.  Cause: The <b>LoadL_master</b> daemon died after exceeding the <b>RESTARTS_PER_HOUR</b> limit.  Action: Check the LoadLeveler error logs and the administrator mail for more information.</p>

Table 2 (Page 4 of 5). Possible Causes for LoadLeveler Failure

<p><b>Label:</b> LL_CRASH_ER  <b>Error Type:</b> PERM  <b>Diagnostic Explanation:</b> The <i>daemon_name</i> (process <i>pid</i>) died</p> <p>Explanation: The specified daemon died.  Cause: This error occurs for one of the following reasons: <ul style="list-style-type: none"> <li>• The daemon received a signal</li> <li>• The daemon experienced an unrecoverable error</li> </ul> Action: Check the LoadLeveler error logs for more information.</p>
<p><b>Label:</b> LL_INFO_ST  <b>Error Type:</b> UNKN  <b>Diagnostic Explanation:</b> Started <i>daemon_name</i>, <i>pid</i> and <i>pgroup=pid</i></p> <p>Explanation: The specified daemon started.  Action: None. This is an informational message.</p>
<p><b>Label:</b> LL_INFO_ST  <b>Error Type:</b> UNKN  <b>Diagnostic Explanation:</b> Got SHUTDOWN command. Got RECONFIG command.</p> <p>Explanation: <b>LoadL_master</b> received the specified commands.  Cause: The <b>llctl</b> command was issued with “stop” or “reconfig”.  Action: None. This is an informational message.</p>
<p><b>Label:</b> LL_INFO_ST  <b>Error Type:</b> UNKN  <b>Diagnostic Explanation:</b> Alternate central manager <i>cent_manager</i> will become active central manager. Switching central manager to <i>cent_manager</i>.</p> <p>Explanation: LoadLeveler performed central manager recovery.  Cause: The backup central manager was unable to contact the primary central manager.  Action: Check the LoadLeveler error logs and the administrator mail for more information.</p>
<p><b>Label:</b> LL_INFO_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>Explanation: LoadLeveler performed central manager recovery.  Cause: The backup central manager gave control back to the primary central manager.  Action: None. This is an informational message.</p>
<p><b>Label:</b> LL_INFO_ST  <b>Error Type:</b> UNKN  <b>Diagnostic Explanation:</b> <i>machine</i> is unable to serve as alternate central manager.</p> <p>Explanation: The machine specified cannot be the alternate central manager because the appropriate negotiator keyword is not defined for this machine, or is defined incorrectly.  Cause: The specified machine was defined as the central manager.  Action: Define the appropriate keywords.</p>

Table 2 (Page 5 of 5). Possible Causes for LoadLeveler Failure

<b>Label:</b>	LL_TRUNCATE_ST
<b>Error Type:</b>	UNKN
<b>Diagnostic Explanation:</b>	Logfile <i>filename</i> was truncated.
Explanation:	LoadLeveler truncated the specified log file because the file exceeded the size defined in the <b>LoadL_config</b> file.
Action:	None. This is an informational message.



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# Glossary

This section contains some of the terms that are commonly used in the LoadLeveler books and in this book in particular.

IBM is grateful to the American National Standards Institute (ANSI) for permission to reprint its definitions from the American National Standard *Vocabulary for Information Processing* (Copyright 1970 by American National Standards Institute, Incorporated), which was prepared by Subcommittee X3K5 on Terminology and Glossary of the American National Standards Committee X3. ANSI definitions are preceded by an asterisk (\*).

Other definitions in this glossary are taken from *IBM Vocabulary for Data Processing, Telecommunications, and Office Systems* (GC20-1699), *IBM DATABASE 2 Application Programming Guide for TSO Users* (SC26-4081), and *Internetworking With TCP/IP, Principles, Protocols, and Architecture*, by Douglas Comer, Copyright 1988 by Prentice Hall, Incorporated

## A

**AFS.** Andrew File System.

**AIX.** Abbreviation for Advanced Interactive Executive, IBM's licensed version of the UNIX operating system. AIX is particularly suited to support technical computing applications, including high function graphics and floating point computations.

## B

**Berkeley Load Average.** The average number of processes on the operating system's ready to run queue.

## C

**C.** A general purpose programming language. It was formalized by ANSI standards committee for the C language (X3J11) in 1984 and by Uniform in 1983.

**client.** \*(1) A function that requests services from a server, and makes them available to the user. \*(2) An address space in MVS that is using TCP/IP services. \*(3) A term used in an environment to identify a machine that uses the resources of the network.

**cluster.** (1) A group of processors interconnected through a high speed network that can be used for high performance computing. (2) A group of jobs submitted from the same job command file. (3) A set of machines

with something in common between them. This commonality could be that they are all backed up by one machine or they are all in the LoadLeveler administration file.

## D

**daemon.** A process, not associated with a particular user, that performs system-wide functions such as administration and control of networks, execution of time-dependent activities, line printer spooling, and so on.

**datagram.** A protocol known as the User Datagram Protocol (UDP). It is an internet standard protocol that allows an application program on one machine to send a datagram to an application program on another machine. UDP uses the Internet Protocol to deliver datagrams. Conceptually, the important difference between UDP and IP is that UDP messages include a protocol port number, allowing the sender to distinguish among multiple destinations (application programs) on the remote machines. In practice, UDP also includes a checksum over the data being sent.

**default.** An alternative value, attribute, or option that is assumed when none has been specified.

## H

**host.** A computer connected to a network, and providing an access method to that network. A host provides end-user services.

## M

**menu.** A display of a list of available functions for selection by the user.

**Motif.** The UNIX industry's standard user interface, originally developed by the Open Systems Foundation. Motif is based on the X-Window system and is a Presentation Manager look-alike. Motif is available for all IBM AIX workstations.

## N

**network.** An interconnected group of nodes, lines, and terminals. A network provides the ability to transmit data to and receive data from other systems and users.

**NFS.** Network File System.

**node.** In a network, the point where one or more functional units interconnect transmission lines. A computer location defined in a network.

**NQS.** Network Queueing System.

## P

**parameter.** \*(1) A variable that is given a constant value for a specified application and that may denote the application. \*(2) An item in a menu for which the operator specifies a value or for which the system provides a value when the menu is interpreted. \*(3) A name in a procedure that is used to refer to an argument that is passed to the procedure. \*(4) A particular piece of information that a system or application program needs to process a request.

**process.** \*(1) A unique, finite course of events defined by its purpose or by its effect, achieved under defined conditions. \*(2) Any operation or combination of operations on data. \*(3) A function being performed or waiting to be performed. \*(4) A program in operation. For example, a daemon is a system process that is always running on the system.

## S

**server.** (1) A function that provides services for users. A machine may run client and server processes at the same time. (2) A machine that provides resources to the network. It provides a network service, such as disk storage and file transfer, or a program that uses such a service.

**shell.** The shell is the primary user interface for the UNIX operating system. It serves as command lan-

guage interpreter, programming language, and allows foreground and background processing. There are three different implementations of the shell concept: Bourne, C and Korn.

**stream.** An internet standard transport level protocol that provides the reliable, full duplex, stream service on which many application protocols depend. TCP allows a process on one machine to send a stream of data to a process on another. It is connection-oriented in the sense that before transmitting data, participants must establish a connection. Software implementing TCP usually resides in the operating system and uses the IP protocol to transmit information across the Internet. It is possible to terminate (shut down) one direction of flow across a TCP connection, leaving a one-way (simplex) connection. The Internet protocol suite is often referred to as TCP/IP because TCP is one of the two most fundamental protocols.

**System Administrator.** The user who is responsible for setting up, modifying, and maintaining LoadLeveler.

## U

**user.** Anyone who is using LoadLeveler.

## W

**working directory.** All files without a fully qualified path name are relative to this directory.

**workstation.** \*(1) A configuration of input/output equipment at which an operator works. \*(2) A terminal or microcomputer, usually one that is connected to a mainframe or to a network, at which a user can perform applications.





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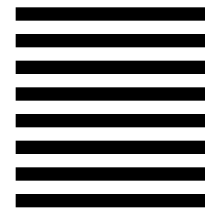
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