MICRO FOCUS® | SERENA™

StarTool® I/O Optimzer

Messages

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Contents

Welcome to StarTool IOO

Product Description	Thank you for choosing StarTool® IOO (I/O Optimizer), the intelligent buffer management tool for IBM z/OS mainframes. StarTool IOO optimizes total system throughput based on a proven knowledgebase of performance rules, custom user override settings, and real-time detection of actual file usage. StarTool IOO dynamically manages both VSAM and non-VSAM I/O buffering in batch and on-line processing environments.
Document Objectives	This document lists and explains StarTool IOO messages. It will help you understand the informational and diagnostic messages that StarTool IOO issues.
Audience	The information in this document is intended for IBM mainframe systems programmers and systems engineers with responsibility for managing global z/OS performance.
Change Bars	Change bars in the left margin identify substantive changes that have been made to this manual in this release.

Before You Begin

Review the Readme file for new information and corrections that became available after this document was published. You can download the Readme file and other documentation in the IOO documentation suite from the Micro Focus Supportline website at:

https://supportline.microfocus.com/.

Conventions

Terminology	This document adopts the following terminological conventions:

- **StarTool IOO** and **IOO** refer to StarTool I/O Optimizer.

- *somnode* refers to your library High Level Qualifier (HLQ).

Textual Conventions	The following textual conventions identify clickable hyperlinks throughout this document:

Convention	Meaning
Blue	Dynamic cross-reference within this document.
`Blue monospaced`	Hypertext link to the World Wide Web.

Additional textual conventions are used in technical contexts to highlight or delimit special information:

Convention	Meaning
Greater-than symbol >	Separates items in a sequence of menu, submenu, or command selections on a GUI client. Example: **Start > Programs > Micro Focus > product_name**.
Vertical bar |	Inside braces, separates mutually exclusive parameter values. Example: `SETBLK={NO|YES}`

Convention	Meaning
Curly braces `{ }`	Required parameter value is to be selected from a list. Example: `SETBLK={NO|YES}`
Square braces `[ ]`	Optional parameter, usually selected from a list. Example: `[,BUFFER=(TRACKS,xx)]`
Ellipsis `...`	Optional unlimited repetitions in a list.
Bold	Panel title, data entry field name, or menu option. Example: **DCF Master Control Panel**
UPPERCASE	Key name or keystroke combination in a data entry context. Examples: PF3, the ENTER key.
Monospaced	Source code, JCL, XML tags, or message text. Also marks keyboard data entries. Example: `//JOBNAME   JOB`
`MONOSPACED UPPERCASE`	Member name, library name, command name, or required value in source code, JCL, or parameter list. Example: `IOOINIT`
<u>`MONOSPACED UPPERCASE UNDERLINE`</u>	Default value in a parameter list. Example: `SETBLK={NO|YES}`
`Monospaced italics`	Variable element in dataset names, member names, or parameter lists. Parameter example: STATTHLD=*xxx,* where xxx indicates a 3-byte value. Dataset example: STRIO.V*v*R*r*M*m,* where *v* = version number, *r* = release, and *m* = modification level. (Non-italicized characters are literals.)
Monospaced mixed case Examples: ■ `ABC*` ■ *`yyyy/mm/dd`* ■ `C'aa'` ■ `X'nn'`	Pattern for a field value or parameter you enter. Number of characters is significant. Punctuation such as slashes or single-quotes must be reproduced in the position shown. Examples: ■ Search string containing the literal ABC and the asterisk (*) wildcard character. ■ Date with four-digit year, two-digit month, and two-digit day separated by required slashes. Leading zeroes required. Example: `2010/01/01` ■ Alphanumeric character string, two characters long, in default character encoding, delimited by required single quotes, and prefixed by literal C. Example: `C'AB'` ■ Hexadecimal number, two digits long, delimited by required single quotes, and prefixed by literal X, where *n* = 0 to F. Example: `X'FF'`

Documentation

IBM Reference   *VSAM Demystified* (SG24-6105) is an IBM Redbook that provides conceptual and reference information about IBM's Virtual Sequential Access Method (VSAM) for z/OS. It is useful for understanding many of the optimization principles that StarTool IOO employs.

Product Documentation   The StarTool IOO product documentation consists of the Readme file and the following manuals:

Title	Description
Serena® SER10TY™ User's Guide	Licensing information and instructions on how to apply StarTool IOO license keys using SER10TY.
StarTool® IOO Installation and Setup	Installation instructions and migration tips for StarTool IOO.
StarTool® IOO Messages	StarTool® DA messages.
StarTool® IOO User's Guide	Functions and operational information for StarTool IOO.

Accessing the Documentation

All product documentation is available for download to licensed customers on the Micro Focus Supportline website at <u>https://supportline.microfocus.com/</u>.

Using the PDF Documentation

Downloading Adobe Reader

All electronic manuals are delivered in Adobe Portable Document Format (PDF). To view PDF documents, you need Adobe® Reader® software. Version 7.0.5 or higher is recommended. Adobe Reader is freely available from the Adobe Web site at <u>http://get.adobe.com/reader/</u>.

TIP Be sure to download the *full version* of Adobe Reader. The more basic version does not include the cross-document search feature.

PDF Document Features

The PDF manuals and the Adobe Reader include the following features to simplify use of the documentation and to make information easy to find:

- **Bookmarks.** All of the online manuals contain predefined bookmarks that make it easy for you to quickly jump to a specific topic. By default, the bookmarks appear to the left of each online manual.

- **Links.** Cross-reference links within an online manual enable you to jump to other sections within the manual and to other manuals with a single mouse click. These links appear in blue.

- **Printing.** While viewing a manual, you can print the current page, a range of pages, or the entire manual.

- **Advanced search.** Starting with Version 6, Adobe Reader includes an advanced search feature that enables you to search across multiple PDF files in a specified directory. (This is in addition to using any search index created by Adobe Catalog — see step 3 below.)

Multiple Document Search

Adobe Reader Version 6 and higher supports multiple document search. To search across multiple PDF documents concurrently, perform the following steps:

1   In Adobe Reader, select Edit > Search (or press Shift+Ctrl+F).

2   In the text box, enter the keywords for which you want to search.

3   Select the **All PDF Documents in** option, then browse to select the folder in which you want to search. (If you have a document open that has an Adobe Catalog index

attached, you can leave the **In the index named...** option selected to search across all the manuals in the index.)

4   Optionally, select one or more of the additional search options, such as **Whole words only** or **Case-Sensitive**.

5   Click the **Search** button.

For more information, see Adobe Reader's online help.

Customer Support

o   **Online Support** — The Micro Focus SupportLine website at `http://supportline.microfocus.com` provides an easy way for customers to manage their support cases, download software patches, or search the Knowledgebase for the latest technical information about our products at any time.

o   A user ID and password are required to access the Micro Focus SupportLine website. To obtain a user ID and password, sign up online or contact Customer Support by email or telephone.

o   **Telephone Support** — Telephone contact numbers for Customer Support are posted by region at the following URL:

   `https://www.microfocus.com/support-and-services/serena/`

   No password is needed to access Customer Support contact information.

o   **Email Support** — Customers can send support requests by email to `customercare@microfocus.com.`

Authorized Support Representative — Some support contracts specify that support calls will be centrally managed within the customer organization. This practice enables related issues to be aggregated across multiple customer sites or functional groups, and it ensures accountability for the satisfactory resolution of open issues. You should determine whether you have such a support contract before contacting Customer Support. If you do have such a contract, submit your support request to the designated support manager within your organization and arrange for that person to contact Customer Support.

Chapter 1
StarTool IOO Messages

The messages described in this chapter are listed in ascending alphanumeric sequence by message number.

SZI002*xy*   *job,step,dd,pgm,vol,cuu,src*,OLDBLK=*oldblk*,NEWBLK=*newblk*,*access*,RULE
=*rule,dsname*,LBI=*z*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*

Explanation: Issued by programs ULTI020 and ULTI100. IOO has successfully reblocked a non-VSAM data set. Fields in the message:

Field	Description
x	IOO's startup mode: ■ E Exempt mode ■ M Mixmod mode ■ S Select mode
y	Message type: ■ I Informational
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	The residency volume serial number of the optimized data set.
cuu	Associated unit number.
src	Source of the original blocksize: ■ DEX - Blocksize was provided by the user's DCB exit. ■ EXT - Blocksize was provided by either JCL or the data set label (external to the application program). ■ PGM - Blocksize was provided by either JCL or the data set label (external to the application program).
oldblk	Original blocksize.
newblk	Optimized blocksize.
access	Access type: ■ INPUT - The file was opened for input. ■ OUTPUT - The file was opened for output. ■ RDJFCB - The file was accessed via the RDJFCB SVC.
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
z	Large Block Indicator (LBI). Tells whether IOO's LBI logic participated in the optimization process. The expected values are: LBI=N: IOO's LBI logic was not used. LBI=Y: IOO's LBI logic was used.
The following two fields are present only if the message is directed to DDname JESYSMSG:	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI003*xy*   *job*,*step*,*dd*,*pgm*,*vol*,*cuu*,*src*,BLKSIZ=*newblk*,BUFNUM=*bufnum*,*access*,RULE
=*rule*,*dsname*,LBI=*z*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd.*

Explanation: Issued by programs ULTI020 and ULTI100. IOO has successfully rebuffered a non-VSAM data set. Fields in the message:

Field	Description
x	IOO's startup mode: ■ E Exempt mode ■ M Mixmod mode ■ S Select mode
y	Message type: ■ I Informational
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	The residency volume serial number of the optimized data set.
cuu	Associated unit number.
src	Source of the original blocksize: ■ DEX - Blocksize was provided by the user's DCB exit. ■ EXT - Blocksize was provided by either JCL or the data set label (external to the application program). ■ PGM - Blocksize was provided by either JCL or the data set label (external to the application program).
oldblk	Original blocksize.
newblk	Optimized blocksize.
access	Access type: ■ INPUT - The file was opened for input. ■ OUTPUT - The file was opened for output. ■ RDJFCB - The file was accessed via the RDJFCB SVC.
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
z	Large Block Indicator (LBI). Tells whether IOO's LBI logic participated in the optimization process. The expected values are: LBI=N: IOO's LBI logic was not used. LBI=Y: IOO's LBI logic was used.
The following two fields are present only if the message is directed to DDname JESYSMSG:	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI004`*xy*   *job,step,dd,pgm,vol,cuu,src*`,OLDBLK=`*oldblk*`,NEWBLK=`*newblk*`,`*access*`,RULE` `=`*rule*`,`*dsname*`,LBI=`*z*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd.*

Explanation: Issued by programs ULTI020 and ULTI100. Audit message identifying the potential reblocking of a non-VSAM data set. IOO was unable to reblock the data set because the global reblocking option had been set to no. Fields in the message:

Field	Description
x	IOO's startup mode: ■ E Exempt mode ■ M Mixmod mode ■ S Select mode
y	Message type: ■ I Informational
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	The residency volume serial number of the potentially optimized data set.
cuu	Associated unit number.
src	Source of the original blocksize: ■ DEX - Blocksize was provided by the user's DCB exit. ■ EXT - Blocksize was provided by either JCL or the data set label (external to the application program). ■ PGM - Blocksize was provided by either JCL or the data set label (external to the application program).
oldblk	Original blocksize.
newblk	Optimized blocksize.
access	Access type: ■ INPUT - The file was opened for input. ■ OUTPUT - The file was opened for output. ■ RDJFCB - The file was accessed via the RDJFCB SVC.
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
z	Large Block Indicator (LBI). Tells whether IOO's LBI logic participated in the optimization process. The expected values are: LBI=N: IOO's LBI logic was not used. LBI=Y: IOO's LBI logic was used.
The following two fields are present only if the message is directed to DDname JESYSMSG:	

Field	Description
hh:mm:ss	Time of the potential optimization.
yyyy/mm/dd	Date of the potential optimization.

SZIA009I `DCF rule processing for OPEN of DDname @@@@@@@@.`

Explanation: IOO is about to evaluate DCF rules to determine whether it should attempt to optimize access to the specified dataset. This message only appears when you are tracing DCF requests.

SZIA010I `DCF rule processing for OPEN of DDname @@@@@@@@.`

Explanation: This message contains the original text of the DCF rule currently being processed. This message only appears when you are tracing DCF requests.

SZIA011I `Rule rejected due to mismatch in`
`@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@.`

Explanation: The DCF rule detailed immediately above this message was rejected for the reason specified. This message only appears when you are tracing DCF requests.

SZIA012I `Rule rejected due to STC specifications.`

Explanation: The DCF rule detailed immediately above this message was rejected because STC=NO was set in IOO's Global Rules table. This message only appears when you are tracing DCF requests.

SZIA013I `Rule matched.`

Explanation: The DCF rule detailed immediately above this message was selected due to all specified criteria having been matched. This message only appears when you are tracing DCF requests.

SZIA014I `No matching rule was found.`

Explanation: No DCF rule was found that allowed for optimization of the DDname currently being opened. This message only appears when you are tracing DCF requests.

SZIB001E `'Start' command return codes =X'@@@@@@@@/@@@@@@@@'.`

Explanation: Issued by program ULTIB00. An attempt by program ULTIB00 to start the JCL procedure to replace the current DCF control table has failed. The return codes from the 'start' command components are included in the message.

Solution: Contact technical support.

SZIB002E `Invalid parameter list.`

Explanation: Issued by program ULTIB00. The parameter list passed to program ULTIB00 is invalid.

Solution: Contact technical support.

SZIB004I `IOO DCF activation command submitted.`

Explanation: Issued by program ULTIB00. Program ULTIB00 has successfully submitted a command to start the JCL procedure to replace the current DCF control table.

SZIC001E `ULTIC00 not running APF authorized.`

Explanation: Issued by program ULTIC00. Program ULTIC00 requires APF authorization and is unable to continue.

SZIC002E `Invalid execution parameters.`

Explanation: Issued by program ULTIC00. Execution parameters for program ULTIC00 must be provided and must consist of the CL4 subsystem name of the target IOO subsystem for which the DCF control table is to be (re)built. Program ULTIC00 is unable to continue.

SZIC003I `IOO DCF table build for SSN @@@@ is complete.`

Explanation: Issued by program ULTIC00. The DCF control table build for IOO subsystem @@@@ has completed.

SZIC004E `IOO @@@@ subsystem not found.`

Explanation: Issued by program ULTIC00. IOO subsystem @@@@ could not be found. Program ULTIC00 is unable to continue.

SZIC005E `IOO @@@@ global table not found.`

Explanation: Issued by program ULTIC00. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTIC00 is unable to continue.

SZIC006E `Error releasing IOO storage for C'DCFCT    ',`
      `RC=X'@@@@@@@@',A=X'@@@@@@@@',LV=X'@@@@@@@@',SP=X'@@@@@@@@'.`

Explanation: Issued by program ULTIC00. The IBM STORAGE macro issued by program ULTIC00 to release the storage allocated by the previous DCF control table has failed. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the storage being released.
LV	Hexadecimal length of the storage being released.
SP	Hexadecimal residency subpool of the storage being released.

Program ULTIC00 is unable to continue.

SZIC007I `DCFCT is in use, waiting for availability.`

Explanation: Issued by program ULTIC00. The use count in the current DCF control table is non-zero. Program ULTIC00 will wait 5 seconds before retesting the availability of the DCF control table.

SZIC008I `Re-checking DCFCT availability.`

Explanation: Issued by program ULTIC00. The use count in the current DCF control table was non-zero. Program ULTIC00 has waited 5 seconds and is not retesting the availability of the DCF control table.

SZIC009E `DCFCT storage release forced.`

Explanation: Issued by program ULTIC00. The use count in the current DCF control table was non-zero. Program ULTIC00 has waited for a total of 25 seconds for it to become available. This is probably due to the abend of a task that was using the DCFCT. Program ULTIC00 forced the release of the DCFCT (without waiting any longer).

SZIC010E   **Error building DCF control table. Reference SYSPRINT output for details.**

Explanation: Issued by program ULTIC00. An error was encountered while attempting to build and populate the new DCF control table. Details concerning the error(s) can be found in the output written to DDname SYSPRINT.

SZIC011I   **IOO storage released for C'DCFCT   ',RC=X'@@@@@@@@',A=X'@@@@@@@@', LV=X'@@@@@@',SP=X'@@'.**

Explanation: Issued by program ULTIC00. Program ULTIC00 has released the storage for the previous DCF control table. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the storage being released.
LV	Hexadecimal length of the storage being released.
SP	Hexadecimal residency subpool of the storage being released.

SZIC012E   **Global table does not contain a maximum number of DCFCT entries.**

Explanation: Issued by program ULTIC00. Program ULTIC00 attempted to obtain storage for a new DCF control table but was unable to compute the amount of storage needed because the requested IOO global table did not contain the maximum number of entries to allocate in the new DCF control table.

SZIC013E   **Error obtaining IOO storage for C'DCFCT   ',RC=X'@@@@@@@@', LV=X'@@@@@@',SP=X'@@'.**

Explanation: Issued by program ULTIC00. Program ULTIC00 attempted to obtain storage for a new DCF control table but encountered a failure in the IBM STORAGE macro. Fields in the message:

Field	Description
RC	The hexadecimal return code from the STORAGE OBTAIN macro.
LV	The hexadecimal length of the storage being obtained.
SP	The hexadecimal residency subpool of the storage being obtained.

Program ULTIC00 is unable to continue.

SZIC014E   **@@@@@@@@ OPEN failure, R15=X'@@@@@@@@'.**

Explanation: Issued by program ULTIC00. Program ULTIC00 is unable to continue because of a failure in opening DDname @@@@@@@@.

SZIC015E   **@@@@@@@@ OPEN failure, DCBOFOPN bit not on.**

Explanation: Issued by program ULTIC00. Program ULTIC00 is unable to continue because the DCBOFOPN bit in the target DCB was not set even though the open for DDname @@@@@@@@ was successful.

SZIC016E   **Errors encountered in input from DD ULTIDCF.**

Explanation: Issued by program ULTIC00. Syntax errors were found in the DCF rule input stream. Details concerning the error(s) can be found in the output written to DDname SYSPRINT. Program ULTIC00 is unable to continue.

SZIC017E   `Control table is full. Use the DCFCTMX global table operand to`
             `expand it.`

             Explanation: Issued by program ULTIC00. The DCF control table has become full while
             program ULTIC00 was attempting to populate it. The maximum DCF control table entry
             count in the global table (ULTIGBL operand DCFCTMX) must be increased and the global
             table must be reassembled. Program ULTIC00 is unable to continue.

SZIC018I   `SYSPRINT Data Control Block (DCB) follows:`

             Explanation: The contents of the SYSPRINT DCB are being audited. This message is
             issued only after a failure to open the SYSPRINT DCB.

SZIC020I   `Global table @@@@@@@@ value updated. Old=@@@@@@@@@@@`
             `New=@@@@@@@@@@@.`

             Explanation: Issued by program ULTIC00. As per a request in the DCF input, program
             ULTIC00 has successfully overridden the indicated global table value. The old and new
             contents of the global table value are also displayed.

SZIC021E   `IOO subsystem '@@@@' exists but is not active. DCF update bypassed.`

             Explanation: Issued by program ULTIC00. Program ULTIC00 was able to locate the
             requested IOO subsystem but was unable to continue because the selected IOO
             subsystem was not active. Program ULTIC00 can be executed against active IOO
             subsystems only.

SZIC022I   `IOO @@@@ subsystem ownership obtained on` *yyyy/mm/dd* `at` *hh:mm:ss*`,`
             `ENQ RC=X'@@'.`

             Explanation: Issued by program ULTIC00. Program ULTIC00 has obtained ownership of
             the requested IOO subsystem at the indicated time. The return code from the IBM ENQ
             macro is included.

SZIC023I   `IOO @@@@ subsystem owned by another task - waiting for its`
             `availability.`

             Explanation: Issued by program ULTIC00. Program ULTIC00 attempted to obtain
             ownership of the requested IOO subsystem but was unable to do so because the
             subsystem was already owned by another task. The program is now waiting for the
             subsystem to become available.

SZIC024E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure`
             `(RC=X'@@').`

             Explanation: Issued by program ULTIC00. Program ULTIC00 attempted to obtained
             ownership of the requested IOO subsystem, but was unable to do so because the IBM
             ENQ macro issued by the program has failed with the indicated return code. Program
             ULTIC00 is unable to continue.

SZIC025E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure`
             `(RC=X'@@').`

             Explanation: Issued by program ULTIC00. The indicated IOO subsystem was owned by
             another task and program ULTIC00 issued an IBM ENQ macro to wait for the subsystem to
             become available. The IBM ENQ macro issued by the program has failed with the indicated
             return code. Program ULTIC00 is unable to continue.

SZIC026I   `IOO @@@@ subsystem ownership released on` *yyyy/mm/dd* `at` *hh:mm:ss*`,`
                `DEQ RC=X'@@'.`

                Explanation: Issued by program ULTIC00. Program ULTIC00 has relinquised ownership
                of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ
                macro is included.

SZIC029E   `LOAD macro failure for C'`*xxxxxxxx*`',R15-R1=X'`*aaaaaaaa bbbbbbbb*
                cccccccc`'.`

                Explanation: Issued by program ULTIC00. Program ULTIC00 was unable to load a
                needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	The name of the needed program.
aaaaaaaa	The contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	The contents of R0 upon return from the IBM LOAD macro.
cccccccc	The contents of R1 upon return from the IBM LOAD macro.

                Program ULTIC00 is unable to continue.

SZIC030E   `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

                Explanation: Issued by program ULTIC00. Program ULTIC00 was able to load a needed
                program into storage, but was unable to use the load module because the program name
                in the MLWA (Module Loading Work Area) did not match the program name in the old-
                format MID (Module Identification Data) at the start of the loaded program's csect. Fields
                in the message:

Field	Description
xxxxxxxx	The expected load module name.
yyyyyyyy	The extracted load module name.

                Program ULTIC00 is unable to continue.

SZIC031E   `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

                Explanation: Issued by program ULTIC00. Program ULTIC00 was able to load a needed
                program into storage, but was unable to use the load module because the program name
                in the MLWA (Module Loading Work Area) did not match the program name in the new-
                format MID (Module Identification Data) at the start of the loaded program's csect. Fields
                in the message:

Field	Description
xxxxxxxx	The expected load module name.
yyyyyyyy	The extracted load module name.

                Explanation: Program ULTIC00 is unable to continue.

SZIC032E   `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.`

Explanation: Issued by program ULTIC00. Program ULTIC00 was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	The loaded program's name.
aaa	The extracted module level.
bbb	The retrieved module level.

Program ULTIC00 is unable to continue.

SZIC033E   `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.`

Explanation: Issued by program ULTIC00. Program ULTIC00 was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	The loaded program's name.
aaa	The extracted module level.
bbb	The retrieved module level.

Program ULTIC00 is unable to continue.

SZIC034E   `ULTICALL macro failure when calling ULTIE00.`

Explanation: Issued by program ULTIC00. The ULTICALL macro issued by program ULTIC00 to call program ULTIE00 has failed. Program ULTIC00 is unable to continue.

SZIC035I   `IOO storage obtained for C'DCFCT   ',RC=X'@@@@@@@@', A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIC00. Program ULTIC00 has obtained storage for the new DCF control table. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the obtained storage.
LV	Hexadecimal length of the obtained storage.
SP	Hexadecimal residency subpool of the obtained storage.

SZIC036I   `SYSPRINT Data Control Block (DCB) follows:`

Explanation: Issued by program ULTIC00. The contents of the SYSPRINT DCB are being audited. This message is issued only after a failure to open the SYSPRINT DCB.

SZIC037E   `Error releasing IOO storage for C'DCFCT ',RC=X'@@@@@@@@',`
            `A=X'@@@@@@@@',LV=X'@@@@@@@@',SP=X'@@@@@@@@'.`

Explanation: The IBM STORAGE macro issued by program ULTIC00 to release unneeded DCF control table storage has failed. Program ULTIC00 is unable to continue. Fields in the message:

Field	Description
RC	The hexadecimal return code from the IBM STORAGE macro.
A	The address of the storage being released.
LV	The length of the storage being released.
SP	The residency subpool of the storage being released.

SZIC038I   `IOO storage released for C'DCFCT ',RC=X'@@@@@@@@',`
            `A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Program ULTIC00 has released unneeded DCF control table storage. Fields in the message:

Field	Description
RC	The hexadecimal return code from the IBM STORAGE macro.
A	The address of the released storage.
LV	The length of the released storage.
SP	The residency subpool of the released storage.

SZIC039I   `IOO storage retained for C'DCFCT ',RC=X'@@@@@@@@',`
            `A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Program ULTIC00 has retained the indicated DCF control table storage. Fields in the message:

Field	Description
RC	The hexadecimal return code from the IBM STORAGE macro.
A	The address of the retained storage.
LV	The length of the retained storage.
SP	The residency subpool of the retained storage.

SZID001I   `DCFCT address=X'@@@@@@@@',Subpool=X'@@',Length=X'@@@@@@',`
            `Use count=X'@@@@@@@@'.`

Explanation: Audit message produced by program ULTID00. Fields in the message:

Field	Description
Address	Hexadecimal address of the active DCF control table.
Subpool	Hexadecimal residency subpool of the active DCF control table.

Field	Description
Length	Hexadecimal length of the active DCF control table.
Use count	Hexadecimal number of users using the current DCF control table.
	NOTE This number changes and reflects the use count at the time the audit of the DCF control table was started.

SZID002I

```
-------------------------------------------------------------
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00. SZID002I is a line of dashes that separates multiple DCF rule audit entries.

SZID003I

```
Address  X'@@@@@@@@'.
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00.

SZID003I audits the hexadecimal address of the rule.

SZID004I

```
Scope
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00.

SZID004I audits the scope of the rule (bypass or select).

SZID005I

```
Criteria
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00.

SZID005I audits the selection criteria included in the rule.

SZID006I

```
Misc
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00.

SZID006I audits any miscellaneous data (such as trace requests) included in the rule.

SZID007I

```
Overrides
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@
```

Explanation: Messages SZID002I, SZID003I, SZID004I, SZID005I, SZID006I, and SZID007I comprise the audit of a DCF rule. They are produced by program ULTID00.

SZID007I audits any overrides requested via the rule.

SZID008I

```
SYSPRINT Data Control Block (DCB) follows:
```

Explanation: Issued by program ULTID00. The contents of the SYSPRINT DCB are being audited. This message is issued only after a failure to open the SYSPRINT DCB. It should follow either message SZID014E or message SZID015E.

SZID010E   `IOO @@@@ subsystem not found.`

Explanation: Issued by program ULTID00. IOO subsystem @@@@ could not be found. Program ULTID00 is unable to continue.

SZID011E   `IOO @@@@ global table not found.`

Explanation: Issued by program ULTID00. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTID00 is unable to continue.

SZID012E   `Invalid execution parameters.`

Explanation: Issued by program ULTID00. Execution parameters for program ULTID00 must be provided and must consist of the CL4 subsystem name of the target IOO subsystem for which the DCF control table is to be audited. Program ULTID00 is unable to continue.

SZID013E   `ULTID00 not running APF authorized.`

Explanation: Issued by program ULTID00. Program ULTID00 requires APF authorization. Program ULTID00 is unable to continue.

SZID014E   `SYSPRINT OPEN failure, R15=X'@@@@@@@@'.`

Explanation: Issued by program ULTID00. Program ULTID00 is unable to continue because of a failure in opening DDname SYSPRINT.

SZID015E   `SYSPRINT OPEN failure, DCBOFOPN bit not on.`

Explanation: Issued by program ULTID00. Program ULTID00 is unable to continue because the DCBOFOPN bit in the target DCB was not set, even though the open for DDname SYSPRINT was successful.

SZID016E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTID00. Program ULTID00 attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTID00 is unable to continue.

SZID017E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTID00. The indicated IOO subsystem was owned by another task and program ULTID00 issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTID00 is unable to continue.

SZID018I   `IOO @@@@ subsystem owned by another task - waiting for its availability.`

Explanation: Issued by program ULTID00. Program ULTID00 attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZID019I   `IOO @@@@ subsystem ownership obtained on `*yyyy/mm/dd*` at `*hh:mm:ss*`, ENQ RC=X'@@'.`

Explanation: Issued by program ULTID00. Program ULTID00 has obtained ownership of the requested IOO subsystem at the indicated time. The return code from the IBM ENQ macro is included.

| SZID020I | IOO @@@@ subsystem ownership released on *yyyy/mm/dd* at *hh:mm:ss*, DEQ RC=X'@@'. |

Explanation: Issued by program ULTID00. Program ULTID00 has relinquised ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

| SZID021E | Global table pointer to DCFCT is zero. |

Explanation: Issued by program ULTID00. Program ULTID00 attempted to audit the current DCF control table, but the global table pointer to the current DCF control table was zero.

| SZID022E | Invalid control block ID field in DCFCT. Expected C'DCFE',Found C'@@@@'/X'@@@@@@@@'. |

Explanation: Issued by program ULTID00. Program ULTID00 attempted to audit the current DCF control table, but the control block identifier in the current DCF control table had an unexpected value. The character and hexadecimal representation of the unexpected value is included in the message.

| SZIDO01E | ULTIDOC is not running APF authorized. |

Explanation: The ULTIDOC program, which runs as a part of the IOODOC procedure, must run with APF authorization.

| SZIDO02E | Invalid execution parameters. |

Explanation: The ULTIDOC program, which runs as a part of the IOODOC procedure, must be invoked with a parameter consisting of a 4 byte subsystem id. For example:

```
//DOC20    EXEC PGM=ULTIDOC,PARM='&SSN'
```

| SZIDO03I | STARTOOL IOO @@@@ @@@@ Ulti-DOC complete. |

Explanation: The ULTIDOC program, which runs as a part of the IOODOC procedure, has finished executing.

| SZIDO04E | STARTOOL IOO @@@@ subsystem not found. |

Explanation: The subsystem id passed to ULTIDOC could not be found in the MVS/JES control blocks. Invoke ULTIDOC with a valid subsystem id.

| SZIDO05E | Global table address is invalid @@@@@@@@. |

Explanation: The pointer to IOO's Global Rules Table, held in the SSCVT entry of the specified subsystem id, does not contain a valid address. Invoke ULTIDOC with a valid subsystem id.

| SZIDO06E | Error in SNAP: R15=@@@@@@@@, R0=@@@@@@@@. |

Explanation: An MVS SNAP macro failed with the error detail as shown.

Solution: Refer this problem to Serena Technical Support.

| SZIE001E | Invalid DCFI address - X'@@@@@@@@'. |

Explanation: Issued by program ULTIE00. The DCFI storage address passed by the caller of ULTIE00 is invalid. Program ULTIE00 cannot continue.

Solution: Contact technical support.

SZIE002E   The SMF record number must be between 128 and 255 (inclusive).

Explanation: Issued by program ULTIE00. The requested SMF record number is invalid. If IOO SMF recording is to be active, the record number must be between 128 and 255 (inclusive). If IOO SMF recording is not to be acitve, the record number must be zero.

SZIE003I   Pgm(ULTIE00),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@),
                Epa(@@@@@@@@),BUFFER01(@@@@@@@@),DCFI(@@@@@@@@).

Explanation: Audit message issued by program ULTIE00 to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.
Buffer01	Address of the primary buffer used for DCF input.
DCFI	Address of the initial DCFI storage passed by the caller.

SZIE004E   Invalid call to ULTIE00 - end-of-file was previously returned to
                the caller. User 701 abend initiated.

Explanation: Issued by program ULTIE00. An invalid call to ULTIE00 has been placed. All processing was completed on the previous call to ULTIE00. A user 701 abend will be requested.

SZIE005E   Invalid call to ULTIE00 - error condition previously returned to
                the caller. User 702 abend initiated.

Explanation: Issued by program ULTIE00. An invalid call to ULTIE00 has been placed. The previous call to ULTIE00 resulted in an error condition and should have resulted in no more calls being placed to ULTIE00. A user 702 abend will be requested.

SZIE006E   ULTIDCF input file is empty.

Explanation: Issued by program ULTIE00. No DCF input was found in the ULTIDCF DD. Program ULTIE00 cannot continue.

SZIE007E   Invalid return from rule submission service. User 703 abend
                initiated.

Explanation: Issued by program ULTIE00. Program ULTIE00 submitted the current rule to its caller. Control was returned to ULTIE00 at an unexpected point.

Solution: Contact technical support.

SZIE008E   The DCF rule initiated by input line @@@@@@ is prefixed by more
                than 10 comment records.

Explanation: Issued by program ULTIE00. A maximum of 10 comment lines can be coded between rule definitions.

SZIE009E   The DCF rule initiated by input line @@@@@@ does not contain a
                scope definition.

Explanation: Issued by program ULTIE00. A rule definition was found that did not contain a scope definition. A rule definition must start with either comment lines or scope defintion lines. Example:

```
            SZIE015I Input=* Rule 1                         .Record number 1.
            SZIE015I    job=myjob                           .Record number 2.
            SZIE015I Input= select=all                      .Record number 3.
            SZIE009E*The DCF rule initiated by input record    1 does not contain
                 a scope definition.
```

SZIE010E **The DCF rule initiated by input line @@@@@@ does not contain a criteria definition.**

Explanation: Issued by program ULTIE00. A rule definition was found that did not contain any criteriea definitions. Each rule definition must have at least one criteria definition. Example:

```
            SZIE015I Input=* Rule 1                         .Record number 1.
            SZIE015I Input= select=all                      .Record number 2.
            SZIE015I Input=* Rule 2                         .Record number 3.
            SZIE010E*The DCF rule initiated by input record    1 does not contain
                 a criteria definition.
```

SZIE011E **ULTIDCF OPEN failure, R15=X'@@@@@@@@'.**

Explanation: Issued by program ULTIE00. Program ULTIE00 is unable to continue because of a failure in opening DDname ULTIDCF.

SZIE012E **ULTIDCF OPEN failure, DCBOFOPN bit not on.**

Explanation: Issued by program ULTIE00. Program ULTIE00 is unable to continue because the DCBOFOPN bit in the target DCB was not set, even though the open for DDname ULTIDCF was successful.

SZIE013E **SYSPRINT OPEN failure, R15=X'@@@@@@@@'.**

Explanation: Issued by program ULTIE00. Program ULTIE00 is unable to continue because of a failure in opening DDname SYSPRINT.

SZIE014E **SYSPRINT OPEN failure, DCBOFOPN bit not on.**

Explanation: Issued by program ULTIE00. Program ULTIE00 is unable to continue because the DCBOFOPN bit in the target DCB was not set, even though the open for DDname SYSPRINT was successful.

SZIE015I **Input=   .**

Explanation: Issued by program ULTIE00. Audit message showing the current input DCF record. This message is the first of the three messages that document syntax errors. Note the following example:

```
            SZIE015I Input=     pgm=                             V314          .
            SZIE035I                     |                                     .
            SZIE026E*Input value cannot be null.
```

Line 1 (message SZIE015I) is a copy of the current input DCF record.

Line 2 (message SZIE035I) identifies the location of the syntax error in the input DCF record.

Line 3 (message SZIE026E in the example) documents the syntax error.

SZIE016E **Unrecognized control input record.**

Explanation: Issued by program ULTIE00. Program ULTIE00 was not able to recognize the current input DCF record. Example:

```
                   SZIE015I Input= invalid=unsupported                .Record number 1.
                   SZIE035I         |                                  .
                   SZIE016E*Unrecognized control input record.
```

SZIE017E   **Unrecognized operand for @@@@@@ record.**

Explanation: Issued by program ULTIE00. Program ULTIE00 was not able to recognize the coded operand for the current scope record. The @@@@@@ value will be replaced with either 'BYPASS' or 'SELECT' to identify the failing scope request. Example:

```
                   SZIE015I Input= select=(invalid)                   .Record number 1.
                   SZIE035I                  |                        .
                   SZIE017E*Unrecognized operand for SELECT record.
```

SZIE018E   **The SMF record number and recording options cannot both be null.**
                    One of them must be coded.

Explanation: Issued by program ULTIE00. At least one of the SMF operands must be coded. Either the SMF record number must be coded or the recording options (the list of IOO events for which SMF records are to be written) must be coded. Both cannot be null. Example:

```
                   SZIE015I Input= gbt smf=(,)                        .Record number 1.
                   SZIE018E*The SMF record number and recording options cannot both be
                        null. One of them must be coded.
```

SZIE019I   **ULTIDCF "end-of-data" reached.**

Explanation: Issued by program ULTIE00. Program ULTIE00 has reached end-of-data on the input ULTIDCF file.

SZIE020E   **Unrecognized value for the 'x...x' operand.**

Explanation: Issued by program ULTIE00. The value coded for the indicated operand is invalid. Example:

```
                   SZIE015I Input= select=all                        .Record number 1.
                   SZIE015I Input=    job=myjob                      .Record number 2.
                   SZIE015I Input=        trace=(dcf,invalid)        .Record number 3.
                   SZIE035I                      |                   .
                   SZIE020E*Unrecognized value for the 'TRACE' operand.
```

SZIE021I   **ULTIDCF Data Control Block (DCB) follows:**

Explanation: Issued by program ULTIE00. The contents of the ULTIDCF DCB are being audited. This message is issued only after a failure to open the ULTIDCF DCB. It should follow either message SZID011E or message SZID012E.

SZIE022I   **SYSPRINT Data Control Block (DCB) follows:**

Explanation: Issued by program ULTIE00. The contents of the SYSPRINT DCB are being audited. This message is issued only after a failure to open the SYSPRINT DCB. It should follow either message SZED013E or message SZIE014E.

SZIE024I   **Trace is now active.**

Explanation: Issued by program ULTIE00. Program ULTIE00 has activated the trace facility in response to a 'dcf trace' command.

SZIE025I   **Trace is now inactive.**

Explanation: Issued by program ULTIE00. Program ULTIE00 has deactivated the trace facility in response to a 'dcf notrace' command.

SZIE026E   Input value cannot be null.

Explanation: Issued by program ULTIE00. A value must be supplied for the current operand. Example:

```
SZIE015I Input= select=all                              .Record number 1.
SZIE015I Input=    job=                                 .Record number 2.
SZIE035I                        |                                        .
SZIE026E*Input value cannot be null.
```

SZIE027E   Input value contains non-numeric characters.

Explanation: Issued by program ULTIE00. The value coded for the current operand has an invalid character at the indicated point. Example:

```
SZIE015I Input= select=all                              .Record number 1.
SZIE015I Input=    job=testjob                          .Record number 2.
SZIE015I Input=    bufni=00a000                         .Record number 3.
SZIE035I                        |                                        .
SZIE027E*Input value contains non-numeric characters.
```

SZIE028E   Numeric string has invalid length (X'@@@@@@@@').

Explanation: Issued by program ULTIE00. The numeric value coded for the current operand is too long. The invalid length is included in the message text. The maximum supported length varies with the different supported operands. Example:

```
SZIE015I Input= select=all                              .Record number 1.
SZIE015I Input=    job=testjob                          .Record number 2.
SZIE015I Input=    bufno=000000000000000010            .Record number 3.
SZIE035I                        |                                        .
SZIE028E*Numeric string has invalid length (X'00000012').
```

SZIE029E   Input string has an invalid length (X'@@@@@@@@').

Explanation: Issued by program ULTIE00. An error has been encountered in the determining of the length of the input string. The resultant invalid length is included in the message text.

Solution: Contact technical support.

SZIE030E   Input value exceeds the maximum supported value of X'@@@@@@@@'/ C'@@@@@@@@@@'.

Explanation: Issued by program ULTIE00. The value coded for the current operand exceeds the maximum value supported for the operand. Example:

```
SZIE015I Input= select=all                              .Record number 1.
SZIE015I Input=    job=testjob                          .Record number 2.
SZIE015I Input=    bufni=1mb                            .Record number 3.
SZIE035I                        |                                        .
SZIE030E*Input value exceeds the maximum supported value of X'00007FFF'/
     C'(32,767). '.
```

SZIE031E   Overflow condition encountered processing the input value.

Explanation: Issued by program ULTIE00. The value coded for the current operand caused an overflow condition when program ULTIE00 attempted to process it. Example:

```
SZIE015I Input= select=all                               .Record number 1.
SZIE015I Input=    job=testjob                           .Record number 2.
SZIE015I Input=    bufni=99999mb                         .Record number 3.
SZIE035I                     |                                           .
SZIE031E*Overflow condition encountered processing the input value.
```

SZIE032E   **Input value exceeds the maximum supported length of x...x characters.**

Explanation: Issued by program ULTIE00. The input value coded for the current operand exceeds the maximum supported character length. Example:

```
SZIE015I Input= select=all                               .Record number 1.
SZIE015I Input=    job=testjob112233                     .Record number 2.
SZIE035I                   |                                             .
SZIE032E*Input value exceeds the maximum supported length of 08
        characters.
```

SZIE033E   **Invalid return code of X'@@@@@@@@' from numeric conversion service.**

Explanation: Issued by program ULTIE00. Program ULTIE00 has detected an invalid return code from the numeric conversion service. The invalid return code is included in the message text.

Solution: Contact technical support.

SZIE035I   .

Explanation: Issued by program ULTIE00. Audit message identifying the location of the syntax error in the current input DCF record. This message is the second of the three messages that document syntax errors. It will follow message SZIE015E which will audit the current input DCF record. The character '|' will be inserted into message SZIE035I such that it falls directly beneath the character in error in the original input record. Reference the description of message SZIE015I for additional details.

SZIE037E   **Invalid coding format - Expected C'('.**

Explanation: Issued by program ULTIE00. The coding format of the current operand requires a C'(' in the indicated position. Example:

```
SZIE015I Input= select=all                               .Record number 1.
SZIE015I Input=    job=testjob                           .Record number 2.
SZIE015I Input=       dmshwm=20                          .Record number 3.
SZIE035I                          |                                      .
SZIE037E*Invalid coding format - Expected C'('.
```

SZIE038E   **Invalid coding format - Expected C','.**

Explanation: Issued by program ULTIE00. The coding format of the current operand requires a C',' in the indicated position. Example:

```
SZIE015I Input= select=all                               .Record number 1.
SZIE015I Input=    job=testjob                           .Record number 2.
SZIE015I Input=       dmshwm=(20)                        .Record number 3.
SZIE035I                            |                                    .
SZIE038E*Invalid coding format - Expected C','.
```

SZIE039E   **Invalid coding format - Expected C')'.**

Explanation: Issued by program ULTIE00. The coding format of the current operand requires a C')' in the indicated position. Example:

```
SZIE015I Input= select=all                                .Record number 1.
SZIE015I Input=    job=testjob                            .Record number 2.
SZIE015I Input=       dmshwm=(20,75                       .Record number 3.
SZIE035I                              |                    .
SZIE039E*Invalid coding format - Expected C')'.
```

SZIE040E   **Invalid coding format - Expected either C')' or C','.**

Explanation: Issued by program ULTIE00. The coding format of the current operand requires either a C',' or a C')' in the indicated position. Code a C',' if more values are to be coded. Otherwise, code a C')'. Example:

```
SZIE015I Input= select=all                                .Record number 1.
SZIE015I Input=    job=testjob                            .Record number 2.
SZIE015I Input=       trace=(dex                          .Record number 3.
SZIE035I                              |                    .
SZIE040E*Invalid coding format - Expected either C')' or C','.
```

SZIE041E   **Unrecognized operand for the 'GBT' control.**

Explanation: Issued by program ULTIINQ. Program ULTIE00 was not able to recognize the requested GBT operand. Example:

```
SZIE015I Input= gbt restart=no                            .Record number 1.
SZIE035I               |                                   .
SZIE041E*Unrecognized operand for the 'GBT' control.
```

SZIE042E   **CA000 internal error. R4 address is not within BUFFER01.**

Explanation: An internal error was detected by program ULTIE00.

Solution: Contact Serena Customer Support.

SZIE043E   **DCFCTMX value in the IOO Global Table is too low.**

Explanation: When the DCF rule text was read into storage for tracing purposes, it was found that the DCFCTMX value in the Global Rules Table is set at too low a value.

Solution: Increase the DCFCTMX value, reassemble and link the Global Rules Table using IOOGASM from the installation-supplied JCL library and restart IOO.

SZIMI01I   **Command : @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@.**

Explanation: Issued by program ULTIMIS. This message audits an operator command issued to program ULTIMIS.

SZIMI02E   **Invalid execution parameters.**

Explanation: Issued by program ULTIMIS. Execution parameters for program ULTIMIS must be provided and must consist of the CL4 subsystem name of the target IOO subsystem against which the program is to execute. Program ULTIMIS is unable to continue.

SZIMI03I   **IOOMSG StarTool IOO @@@@ IOO-MIS is complete.**

Explanation: Issued by program ULTIMIS. The execution of program ULTIMIS against IOO subsystem @@@@ is complete.

SZIMI04E   **StarTool IOO @@@@ subsystem not found.**

Explanation: Issued by program ULTIMIS. IOO subsystem @@@@ could not be found. Program ULTIMIS is unable to continue.

SZIMI05E `StarTool IOO @@@@ global table not found.`

Explanation: Issued by program ULTIMIS. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTIMIS is unable to continue.

SZIMI06I `Current StarTool IOO subsystem : @@@@.`

Explanation: Issued by program ULTIMIS. Audt message identifying the target IOO subsystem.

SZIMI07I `Current StarTool IOO version # : @@@@.`

Explanation: Issued by program ULTIMIS. Audt message identifying the target IOO subsystem's version number.

SZIMI08E `Unrecognizable 'modify' command.`

Explanation: Issued by program ULTIMIS. The 'modify' command directed to program ULTIMIS is not recognizable.

SZIMI09E `QEDIT error setting up stop/modify ECB, R15=X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The IBM QEDIT macro issued by program ULTIMIS while setting up the stop/modify ECB has failed with the indicated return code. Program ULTIMIS is unable to continue.

Solution: Contact technical support.

SZIMI10E `StarTool IOO is not running APF authorized.`

Explanation: Issued by program ULTIMIS. Program ULTIMIS requires APF authorization. Program ULTIMIS is unable to continue.

SZIMI11E `QEDIT error setting up command limit, R15=X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The IBM QEDIT macro issued by program ULTIMIS while setting up the command limit has failed with the indicated return code. Program ULTIMIS is unable to continue.

Solution: Contact technical support.

SZIMI12E `Invalid ULTISI1 address : X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI1 address extracted by program ULTIMIS from the current global table is invalid. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI13E `Invalid ULTISI1 module at address X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI1 module pointed to by the current global table does not contain an IOO MID (Module Identification Data) segment preceeding the load module. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI14E `Invalid ULTISI2 address : X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI2 address extracted by program ULTIMIS from the current global table is invalid. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI15E   `Invalid ULTISI2 module at address X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI2 module pointed to by the current global table does not contain an IOO MID (Module Identification Data) segment preceeding the load module. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI16E   `Invalid ULTISI3 address : X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI3 address extracted by program ULTIMIS from the current global table is invalid. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI17E   `Invalid ULTISI3 module at address X'@@@@@@@@'.`

Explanation: Issued by program ULTIMIS. The ULTISI3 module pointed to by the current global table does not contain an IOO MID (Module Identification Data) segment preceeding the load module. Program ULTIMIS will terminate processing of the current operator command.

Solution: Contact technical support.

SZIMI18I   `Module ULTISI1 already in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI1 was already in the 'inactive' state. Program ULTIMIS will attempt to deactivate any remaining system interfaces.

SZIMI19I   `Module ULTISI2 already in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI2 was already in the 'inactive' state. Program ULTIMIS will attempt to deactivate any remaining system interfaces.

SZIMI20I   `Module ULTISI3 already in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI3 was already in the 'inactive' state. Program ULTIMIS will attempt to de-activate any remaining system interfaces.

SZIMI21I   `Module ULTISI1 now in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI1 has been set to the 'inactive' state. Program ULTIMIS will attempt to deactivate any remaining system interfaces.

SZIMI22I   `Module ULTISI2 now in 'inactive' mode.`

Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI2 has been set to the 'inactive' state. Program ULTIMIS will attempt to deactivate any remaining system interfaces.

SZIMI23I   `Module ULTISI3 now in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be temporarily deactivated was detected. The system interface module ULTISI3 has been set to the 'inactive' state. Program ULTIMIS will attempt to deactivate any remaining system interfaces.

SZIMI24I   `Module ULTISI1 was not in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be reactivated was detected. The system interface module ULTISI1 was already in the 'active' state. Program ULTIMIS will attempt to reactivate any remaining system interfaces.

SZIMI25I   `Module ULTISI2 was not in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be reactivated was detected. The system interface module ULTISI2 was already in the 'active' state. Program ULTIMIS will attempt to reactivate any remaining system interfaces.

SZIMI26I   `Module ULTISI3 was not in 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be reactivated was detected. The system interface module ULTISI3 was already in the 'active' state. Program ULTIMIS will attempt to reactivate any remaining system interfaces.

SZIMI27I   `Module ULTISI1 removed from 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be re-activated was detected. The system interface module ULTISI1 has been set to the 'active' state. Program ULTIMIS will attempt to re-activate any remaining system interfaces.

SZIMI28I   `Module ULTISI2 removed from 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be reactivated was detected. The system interface module ULTISI2 has been set to the 'active' state. Program ULTIMIS will attempt to reactivate any remaining system interfaces.

SZIMI29I   `Module ULTISI3 removed from 'inactive' mode.`

Explanation: Issued by program ULTIMIS. An operator command requesting the the IOO system interfaces be re-activated was detected. The system interface module ULTISI3 has been set to the 'active' state. Program ULTIMIS will attempt to re-activate any remaining system interfaces.

SZIMD01I   `Pgm(@@@@@@@@),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@),`
                 `Epa(@@@@@@@@).`

Explanation: Audit message issued by program ULTIMOD to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.

SZIMD02I   `StarTool IOO xxxx yyyy modification procedure is complete.`

Explanation: Issued by program ULTIMOD. The requested modification of the IOO environment is complete. Fields in the message:

Field	Description
xxxx	IOO version number.
yyyy	IOO subsystem name.

SZIMD04E   `Error obtaining IOO storage for`
`C'xxxxxxxx',RC=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD attempted to obtain storage for IOO component '*xxxxxxxx*' but encountered a failure in the IBM STORAGE macro. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
LV	Hexadecimal length of the storage being obtained.
SP	Hexadecimal residency subpool of the storage being obtained.

Program ULTIMOD is unable to continue.

SZIMD05E   `LOAD macro failure for C'xxxxxxxx',R15-R1=X'aaaaaaaa bbbbbbbb`
`cccccccc'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD was unable to load a needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	Name of the needed program.
aaaaaaaa	Contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	Contents of R0 upon return from the IBM LOAD macro.
cccccccc	Contents of R1 upon return from the IBM LOAD macro.

Program ULTIMOD is unable to continue.

SZIMD06E   `Module name error,MLWA=C'xxxxxxxx',MID='yyyyyyyy'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTIMOD is unable to continue.

SZIMD07E   StarTool IOO @@@@ subsystem not found. IOOSSN return
           code=X'@@@@@@@@'.

           Explanation: Issued by program ULTIMOD. IOO subsystem @@@@ could not be found.
           The return code from the associated IOOSSN macro is included in the message text.
           Program ULTIMOD is unable to continue.

SZIMD08E   StarTool IOO @@@@ global table not found.

           Explanation: Issued by program ULTIMOD. IOO subsystem @@@@ was found, but no
           associated global table was found. Program ULTIMOD is unable to continue.

SZIMD09E   StarTool IOO *xxxx yyyy* is not active. Use one of the startup
           procedures to start IOO.

           Explanation: Issued by program ULTIMOD. IOO substsem xxxx was found, but is not
           active. The IOO modification procedure can be run against active IOO subsystems only.
           Fields in the message:

           - *xxxx*: StarTool IOO product release number.

           - yyyy : Startool IOO subsystem ID.

           Program ULTIMOD is unable to continue.

SZIMD10E   No execution parameter passed.

           Explanation: Issued by program ULTIMOD. No execution parameter was passed to
           program ULTIMOD. This message should be followed by message SZIMD12I, which
           documents the expected parameter format. Program ULTIMOD is unable to continue.

SZIMD11E   Execution parameters have invalid length : X'@@@@@@@@'.

           Explanation: Issued by program ULTIMOD. The execution parameter passed to program
           ULTIMOD has the indicated invalid length. This message should be followed by message
           SZIMD12I, which documents the expected parameter format. Program ULTIMOD is unable
           to continue.

SZIMD12I   A 2-character IOO global table suffix is required.

           Explanation: Issued by program ULTIMOD. This message documents the expected
           parameter format.

SZIMD13E   ULTIMOD is not running APF authorized.

           Explanation: Issued by program ULTIMOD. Program ULTIMOD requires APF
           authorization. Program ULTIMOD is unable to continue.

SZIMD14E   Error calling program ULTIINQ, RC=X'@@@@@@@@', IOO status display
           bypassed.

           Explanation: Issued by program ULTIMOD. An error was encountered while calling
           program ULTIINQ to display the updated IOO status. Program ULTIMOD will bypass the
           IOO status display.

SZIMD15E   `Error releasing IOO storage for`
`C'xxxxxxxx',RC=X'@@@@@@@@',A=X'@@@@@@@@',LV=X'@@@@@@@@',`
`S P=X'@@@@@@@@'.`

Explanation: Issued by program ULTIMOD. The IBM STORAGE macro issued by program ULTIMOD to release the storage allocated for IOO component '*xxxxxxxx*' has failed. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the storage being released.
LV	Hexadecimal length of the storage being released.
SP	Hexadecimal residency subpool of the storage being released.

Program ULTIMOD is unable to continue.

SZIMD16E   `Module name error,MLWA=C'xxxxxxxx',MID='yyyyyyyy'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTIMOD is unable to continue.

SZIMD17E   `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa',`
`found level 'bbb'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program ULTIMOD is unable to continue.

SZIMD18E   `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program ULTIMOD is unable to continue.

SZIMD20E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIMOD. Program ULTIMOD attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIMOD is unable to continue.

SZIMD21I   `IOO @@@@ subsystem owned by another task - waiting for its availability.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZIMD22E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIMOD. The indicated IOO subsystem was owned by another task and program ULTIMOD issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIMOD is unable to continue.

SZIMD23I   `IOO @@@@ subsystem ownership obtained on yyyy/mm/dd at hh:mm:ss, ENQ RC=X'@@'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD has obtained ownership of the requested IOO subsystem at the indicated time. The return code from the IBM ENQ macro is included.

SZIMD24I   `IOO @@@@ subsystem ownership released on yyyy/mm/dd at hh:mm:ss, DEQ RC=X'@@'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD has relinquised ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

SZIMD25I   `IOO storage released for C'`*`xxxxxxxx`*`',RC=X'@@@@@@@@',`
`A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIMOD. Program ULTIMOD has released the storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

SZIMD27I   `IOO storage obtained for C'`*`xxxxxxxx`*`',RC=X'@@@@@@@@',`
`A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'  .`

Explanation: Issued by program ULTIMOD. Program ULTIMOD has obtained storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

SZINQ01I   `Pgm(@@@@@@@@),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@),`
`Epa(@@@@@@@@).`

Explanation: Audit message issued by program ULTIINQ to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.

SZINQ02E   `ULTIINQ is not running APF authorized.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ requires APF authorization. Program ULTIINQ is unable to continue.

SZINQ03E   `Invalid execution parameters. Execution parameters must consist of`
`a 4-character SSN.`

Explanation: Issued by program ULTIINQ. Execution parameters for program ULTIINQ must be provided and must consist of the CL4 subsystem name of the target IOO subsystem for which the DCF control table is to be audited. Program ULTIINQ is unable to continue.

SZINQ04I   `StarTool IOO xxxx yyyy query is complete.`

Explanation: Issued by program ULTIINQ. The display of the IOO status is complete. Fields in the message:

Field	Description
xxxx	IOO version number.
yyyy	IOO subsystem name.

SZINQ05E   `StarTool IOO @@@@ subsystem not found.`

Explanation: Issued by program ULTIINQ. IOO subsystem @@@@ could not be found. Program ULTIINQ is unable to continue.

SZINQ06E   `StarTool IOO @@@@ global table not found.`

Explanation: Issued by program ULTIINQ. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTIINQ is unable to continue.

SZINQ07E   `ULTICALL macro failure when calling ULTIQST.`

Explanation: Issued by program ULTIINQ. The ULTICALL macro issued by program ULTIINQ to call program ULTIQST has failed. Program ULTIINQ is unable to continue.

SZINQ08E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIINQ. Program ULTIINQ attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIINQ is unable to continue.

SZINQ09E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIINQ. The indicated IOO subsystem was owned by another task and program ULTIINQ issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIINQ is unable to continue.

SZINQ10I   `IOO @@@@ subsystem owned by another task - waiting for its availability.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZINQ11I   `IOO @@@@ subsystem ownership obtained on yyyy/mm/dd at hh:mm:ss, ENQ RC=X'@@'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ has obtained ownership of the requested IOO subsystem at the indicated time. The return code from the IBM ENQ macro is included.

SZINQ12I   `IOO @@@@ subsystem ownership released on yyyy/mm/dd at hh:mm:ss, DEQ RC=X'@@'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ has relinquised ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

SZINQ14E `LOAD macro failure for C'xxxxxxxx',R15-R1=X'@@@@@@@@ @@@@@@@@ @@@@@@@@'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ was unable to load program xxxxxxxx into storage. The contents of general purpose registers R15 through R1 upon return from the LOAD macro are included. Program ULTIINQ is unable to continue.

SZINQ15E `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Program ULTIINQ is unable to continue.

SZINQ16E `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Program ULTIINQ is unable to continue.

SZINQ17E `Module '`*xxxxxxxx*`' is at an invalid level. Expected level '`*aaa*`', found level '`*bbb*`'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program ULTIINQ is unable to continue.

SZINQ18E `Module '`*xxxxxxxx*`' is at an invalid level. Expected level '`*aaa*`', found level '`*bbb*`'.`

Explanation: Issued by program ULTIINQ. Program ULTIINQ was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program ULTIINQ is unable to continue.

SZIQ010I `IOO Global Product Data`

Explanation: Issued by program ULTIQST as the header line for the audit of global product data.

`SZIQ011I`   `IOO System Status          : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the system status of the target IOO subsystem. Expected values:

- Active   : The target IOO subsystem in active.
- Inactive : The target IOO subsystem in inactive.

`SZIQ012I`   `IOO Release Number    : @@@@`

Explanation: Issued by program ULTIQST to audit the release number of the target IOO subsystem.

`SZIQ013I`   `IOO Subsystem Name         : @@@@`

Explanation: Issued by program ULTIQST to audit the name of the target IOO subsystem.

`SZIQ014I`   `IOO Operation Mode         : @@@@@@`

Explanation: Issued by program ULTIQST to audit the operation mode of the target IOO subsystem. Expected values:

- Exempt   : The target IOO subsystem was started in 'exempt' mode.
- Mixmod   : The target IOO subsystem was started in 'mixmod' mode.
- Select   : The target IOO subsystem was started in 'select' mode.

`SZIQ015I`   `z/OS Release Number        : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the z/OS release number.

`SZIQ016I`   `z/OS Product FMID          : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the z/OS product FMIDr.

`SZIQ017I`   `z/OS System ID Bytes 1-8   : @@@@@@@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit bytes 1-8 of the z/OS system level indicator (extracted from the CVT).

`SZIQ018I`   `z/OS System ID Bytes 9-16  : @@@@@@@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit bytes 9-16 of the z/OS system level indicator (extracted from the CVT).

`SZIQ019I`   `System Interface #1        : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the status of IOO's system interface #1. Expected values:

- Inactive: The system interface is inactive.
- Active: The system interface is active.
- Name err: The system interface's name was not recognized. Contact technical support.
- Addr err: The system interface's address was invalid. Contact technical support.

| SZIQ020I | `System Interface #2      : @@@@@@@@` |

Explanation: Issued by program ULTIQST to audit the status of IOO's system interface #2. Expected values:

- Inactive: The system interface is inactive.
- Active: The system interface is active.
- Name err: The system interface's name was not recognized. Contact technical support.
- Addr err: The system interface's address was invalid. Contact technical support.

| SZIQ021I | `System Interface #3      : @@@@@@@@` |

Explanation: Issued by program ULTIQST to audit the status of IOO's system interface #3. Expected values:

- Inactive: The system interface is inactive.
- Active: The system interface is active.
- Name err: The system interface's name was not recognized. Contact technical support.
- Addr err: The system interface's address was invalid. Contact technical support.

| SZIQ022I | `Messages : Re-blocking ?   : @@@` |

Explanation: Issued by program ULTIQST to audit the reblocking message option. Expected values:

- JESYSMSG: Messages will be directed to the JESYSMSG DD statement.
- No: No messages will be produced.
- WTL: Messages will be issued using the WTL macro.
- WTO Messages will be issued using the WTO macro.

| SZIQ023I | `Messages : Re-buffering ?  : @@@` |

Explanation: Issued by program ULTIQST to audit the rebuffering message option. Expected values:

- JESYSMSG: Messages will be directed to the JESYSMSG DD statement.
- No: No messages will be produced.
- WTL: Messages will be issued using the WTL macro.
- WTO: Messages will be issued using the WTO macro.

| SZIQ024I | `Messages : TSO ?          : @@@` |

Explanation: Issued by program ULTIQST to audit the TSO messages option. Expected values:

- No: IOO messages for TSO address spaces are not to be generated.
- Yes: IOO messages for TSO address spaces are to be generated.

| SZIQ025I | `Perform Re-blocking ?     : @@@` |

Explanation: Issued by program ULTIQST to audit the reblocking option. Expected values:

- No: IOO is not to perform non-VSAM reblocking.
- Yes: IOO is to allow non-VSAM allow reblocking.

SZIQ026I   Perform Re-buffering ?   : @@@

Explanation: Issued by program ULTIQST to audit the rebuffering option. Expected values:

- No: IOO is not to perform VSAM and non-VSAM rebuffering.
- Yes: IOO is to allow VSAM and non-VSAM allow rebuffering.

SZIQ027I   Override Hard-coded DCBs ? : @@@

Explanation: Issued by program ULTIQST to audit the option for IOO to override a hard-coded blocksize in DCBs and DCBEs. Expected values:

- No: IOO is not allowed to override hard-coded DCB and DCBE blocksizes.
- Yes: IOO is allowed to override hard-coded DCB and DCBE blocksizes.

SZIQ028I   Perform "RPG" Processing ? : @@@

Explanation: Issued by program ULTIQST to audit the option for IOO to update RECFM=F and RECFM=V input DCBs to RECFM=FB and RECFM=VB in support of RPG programs. Expected values:

- No: IOO is not allowed to perform the update.
- Yes: IOO is allowed to oerform the update.

SZIQ029I   SMF Record Number   :@@@@

Explanation: Issued by program ULTIQST to audit the SMF record number to be used for IOO SMF recording.

SZIQ030I   Debug "Exclusive" Select ? : @@@

Explanation: Issued by program ULTIQST to audit the status of the diagnostice 'exclusize select' options. Unless Serena has placed IOO in diagnostic mode, the only expected value is 'No'.

SZIQ031I   CSR Error Option   : @@@@@@

Explanation: Issued by program ULTIQST to audit the action to be taken by IOO when an error is encountered in the CSR (Catalog Service Routine). Expected values are:

- Ignore: Ignore the error.
- Trace: Trace the error.

SZIQ032I   Optimize Started Tasks ?   : @@@

Explanation: Issued by program ULTIQST to audit the global default option for the selection of started tasks for optimization by IOO. Expected values are:

- No: Unless overridden by a DCF table entry, started tasks are not to be selected for optimization by IOO.
- Yes: Unless overridden by a DCF table entry, started tasks can be selected for optimization by IOO.

SZIQ033I   `Activate LBI support ? : @@@`

Explanation: This message is displayed by the IOOINQY JCL procedure and is an audit of the global default option for the activation of LBI (Large Block Interface) support by IOO. The expected values are as follows:

NO : IOO's LBI support defaults to being inactive.
YES : IOO's LBI support defaults to being active.

These values can be overridden by an individual DCF rule.

SZIQ034I   `DMM RACF facility name     :` *profilename*

Explanation: Issued by program ULTIQST to audit the status of the FACILITY profile name.

SZIQ035I   `- IMS support              : @@@`

Explanation: Issued by program ULTIQST to audit the IMS value from IOO's Global Rules table.

SZIQ036I   `- IMS DRA RPL count        : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the IMSDRA# value from IOO's Global Rules table.

SZIQ037I   `- IMS release level        : @@@`

Explanation: Issued by program ULTIQST to audit the IMSREL value from IOO's Global Rules table.

SZIQ038I   `- Trace active ?           : @@@`

Explanation: Issued by program ULTIQST to audit the TRCLIM value from IOO's Global Rules table.

SZIQ039I   `- Trace message limit      : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the TRCLIM value from IOO's Global Rules table.

SZIQ040I   `- Statistics               : @@@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the STATS value from IOO's Global Rules table.

SZIQ041I   `- Statistics threshold     : @@@@`

Explanation: Issued by program ULTIQST to audit the STATTHLD value from IOO's Global Rules table.

SZIQ050I   `- IOO-VSAM  requested      : @@@`

Explanation: Issued by program ULTIQST to audit the status of the IOO-VSAM feature. This value is pulled from the PRODUCTS keyword in IOO's Global Rules table.

SZIQ051I   `- IOO-LSR   requested      : @@@`

Explanation: Issued by program ULTIQST to audit the status of the IOO-LSR feature. This value is pulled from the PRODUCTS keyword in IOO's Global Rules table.

SZIQ052I   `- IOO-BLOCK requested      : @@@`

Explanation: Issued by program ULTIQST to audit the status of the IOO-BLOCK feature. This value is pulled from the PRODUCTS keyword in IOO's Global Rules table.

`SZIQ053I`   `- IOO-SAM   requested       : @@@`

Explanation: Issued by program ULTIQST to audit the status of the IOO-SAM feature. This value is pulled from the PRODUCTS keyword in IOO's Global Rules table.

`SZIQ054I`   `- IOO-IMS   requested       : @@@`

Explanation: Issued by program ULTIQST to audit the status of the IOO-IMS feature. This value is pulled from the PRODUCTS keyword in IOO's Global Rules table.

`SZIQ070I`   `IOO DDnames`

Explanation: Issued by program ULTIQST as the header line for the audit of the DDnames used for controlling IOO.

`SZIQ071I`   `Step De-activation DDname  : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the DDname used to de-activate IOO for an entire step.

`SZIQ072I`   `Step Activation DDname     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the DDname used to activate IOO for an entire step. This DDname can be used in situations where the job is being denied IOO use through DCF, but a user wishes to allow a particular step to use IOO.

`SZIQ073I`   `IOO  De-activation DDname  : @@@@@@@@`

Issued by program ULTIQST to audit the DDname used to de-activate IOO within a particular step. All subsequent DDname will be ineligible for IOO optimization.

`SZIQ074I`   `IOO  Re-activation DDname  : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the DDname used to re-activate IOO within a particular step. All subsequent DDname will be eligible for IOO optimization.

`SZIQ080I`   `Level-Dependent Features`

Explanation: Issued by program ULTIQST as the header line for the audit of level-dependent features of IOO.

`SZIQ081I`   `OPEN "MODE=31" Supprt      : @@@@@@@@`

Explanation: Issued by program ULTIQST to identify whether or not IOO supports 'MODE=31' option of the IBM OPEN macro. Expected values:
- No: The 'MODE-31' option of the IBM OPEN macro is not suported by the active IOO subsystem.
- Yes: The 'MODE-31' option of the IBM OPEN macro is suported by the active IOO subsystem.

`SZIQ082I`   `DCF Support                : @@@@@@@@`

Explanation: Issued by program ULTIQST to identify whether or not DCF support is active. Expected values:
- Active: DCF support is active.
- Inactive: DCF support is not active.

`SZIQ083I`   `- DCF Max # Table Entries  : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the DCFCTMX value from IOO's Global Rules table.

`SZIQ084I`   `- DCF Startup Proc Name     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the DCFPROC value from IOO's Global Rules table.

`SZIQ100I`   `Non-VSAM Data`

Explanation: Issued by program ULTIQST as the header line for the audit of non-VSAM data.

`SZIQ101I`   `Minimum Bufferspace       : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the minimum bufferspace to allow for non-VSAM buffers.

`SZIQ102I`   `Maximum Bufferspace       : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum bufferspace to allow for non-VSAM buffers.

`SZIQ103I`   `Maximum LBI blocksize     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum LBI (Large Block Interface) blocksize to be supported by IOO.

`SZIQ109I`   `IOO-Block Optimized Count :@@@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the number of reblocking optimizations performed by the target IOO subsystem.

`SZIQ200I`   `VSAM Data`

Explanation: Issued by program ULTIQST as the header line for the audit of VSAM data.

`SZIQ201I`   `Override Macro Format ?   : @@@`

Issued by program ULTIQST to audit the option to allow IOO to override ACB macro format bytes. Expected values:
- No: IOO is not allowed to override ACB macro format bytes.
- Yes: IOO is allowed to override ACB macro format bytes.

`SZIQ202I`   `Optimize VSAM from TSO ?   : @@@`

Explanation: Issued by program ULTIQST to audit the option to allow IOO to optimize VSAM files within a TSO address space. Expected values:
- No: IOO is not allowed to optimize VSAM files within a TSO address space.
- Yes: IOO is allowed to optimize VSAM files within a TSO address space.

`SZIQ203I`   `Optimize SHROPT(4) ?      : @@@`

Explanation: Issued by program ULTIQST to audit the option to allow IOO to optimize SHROPT(4) files. Expected values:
- No: IOO is not allowed to optimize SHROPT(4) files.
- Yes: IOO is allowed to optimize SHROPT(4) files.

`SZIQ204I`   `VSAM Minimum Bufferspace   : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the minimum bufferspace IOO will allot for VSAM files.

SZIQ205I   `VSAM Maximum Bufferspace   : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum bufferspace IOO will allot for VSAM files.

SZIQ206I   `VSAM Minimum Hiperspace    : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the minimum hiperspace bufferspace IOO will allot for LSR (Local shared resource) files.

SZIQ207I   `VSAM Maximum Hiperspace    : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum hiperspace bufferspace IOO will allot for LSR (Local shared resource) files.

SZIQ208I   `VSAM HPERDLWM(1) LWM       : @@@@`

Explanation: Issued by program ULTIQST to audit the VSAM hiperspace low-water-mark for data components. If the number of hiperspace buffers computed by IOO is less than this value, main storage buffers will be used in favor of hiperspace buffers.

SZIQ209I   `VSAM HPERILWM(1) LWM       : @@@@`

Explanation: Issued by program ULTIQST to audit the VSAM hiperspace low-water-mark for index components. If the number of hiperspace buffers computed by IOO is less than this value, main storage buffers will be used in favor of hiperspace buffers.

SZIQ210I   `VSAM HPERDLWM(2) Limit     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the VSAM hiperspace low-water-mark limit for data components. Once it has been main storage buffers are to be used in favor or hiperspace buffers, this value will set a limit as to the maximum additional bufferspace that can be used.

SZIQ211I   `VSAM HPERILWM(2) Limit     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the VSAM hiperspace low-water-mark limit for index components. Once it has been main storage buffers are to be used in favor or hiperspace buffers, this value will set a limit as to the maximum additional bufferspace that can be used.

SZIQ212I   `- LSR imbed                : @@@`

Explanation: Issued by program ULTIQST to audit the LSR_IMBED value from IOO's Global Rules table.

SZIQ213I   `- LSR pool count           : @@`

Explanation: Issued by program ULTIQST to audit the LSRMAX value from IOO's Global Rules table.

SZIQ214I   `- System Interface Error Opt : @@@@@@`

Explanation: Issued by program ULTIQST to audit the VSIERR value from IOO's Global Rules table.

SZIQ300I   `Dynamic Memory Management`

Explanation: Issued by program ULTIQST as the header line for the audit of DMM (Dynamic Memory Management) feature data.

SZIQ301I   `DMM Feature Status        : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the status of the DMM (Dynamic Memory Management) feature. Expected values:

- Active: The feature is active.
- Inactive: The feature is not active.

SZIQ302I   `DMM LSQA Reserved Amount   : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the target aggregate LSQA free space IOO is to preserve.

SZIQ303I   `DMM Limit Value < 16mb     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the IEALIMIT GETMAIN macro limit set by IOO.

SZIQ304I   `DMM High-Water-Mark        : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the region optimization limit value. Region sizes exceeding this value will not be processed by IOO.

SZIQ305I   `DMM Control Facility       : @@@@@@`

Explanation: Issued by program ULTIQST to audit the facility used for control of DMM (Dynamic Memory Management). Expected values:

- DCF: Only those tasks selected by DCF will be allowed to use DMM processing.
- Global: All tasks will be allowed to use DMM processing.

SZIQ306I   `DMM Region Size > 16mb     : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the extended region size set by IOO.

SZIQ307I   **Explanation:** Issued by program ULTIQST to audit the extended IEALIMIT GETMAIN macro limit set by IOO.

SZIQ308I   `DMM LSQA Min Contig Ext    : @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the target minimum contiguous LSQA free space IOO is to preserve.

SZIQ309I   `DMM TSO Non-VSAM Region    : @@@@@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the option controlling IOO optimization of region size for TSO non-VSAM file processing. Expected values:

- Do not optimize: IOO will not perform region optimization for TSO users when they process a non-VSAM file. Region optimization will be performed when a VSAM file is accessed.
- Optimize: IOO will perform region optimization for TSO users when they process a non-VSAM file. Region optimization will also be performed when a VSAM file is accessed.

SZIQ400I   `Dynamic Buffer Management`

Explanation: Issued by program ULTIQST as the header line for the audit of DBM (Dynamic Buffer Management) feature data.

SZIQ401I   `DBM Feature Status        :  @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the status of the DBM (Dynamic Buffer Management) feature. Expected values:

- Active: The feature is active.
- Inactive: The feature is not active.

SZIQ402I   `DBM Maximum Bufsp (Index)  :  @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum bufferspace the DBM (Dynamic Buffer Management) feature will allocate for an index component when the following conditions are true:

- The DBM feature has been activated.
- The ALCBUF31 flag was not requested.
- The program accessing the file cannot be identified as a COBOL program.

The value is ignored when any of the listed conditions are false.

SZIQ403I   `DBM Maximum Bufsp (Data )  :  @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the maximum bufferspace the DBM (Dynamic Buffer Management) feature will allocate for a data component when the following conditions are true :

- The DBM feature has been activated.
- The ALCBUF31 flag was not requested.
- The program accessing the file cannot be identified as a COBOL program.

The value is ignored when any of the listed conditions are false.

SZIQ500I   `Dynamic Mode Selection`

Explanation: Issued by program ULTIQST as the header line for the audit of DMS (Dynamic Mode Selection) feature data.

SZIQ501I   `DMS Feature Status        :  @@@@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the status of the DMS (Dynamic Mode Selection) feature. Expected values:

- Active: The feature is active.
- Inactive: The feature is not active.

SZIQ502I   `Dynamic Buffer Translation`

Explanation: Issued by program ULTIQST as the header line for the audit of DBT (Dynamic Buffer Translation) feature data.

SZIQ503I   `DBT Feature Status        :  @@@@@@@@`

Explanation: Issued by program ULTIQST to audit the status of the DBT (Dynamic Buffer Translation) feature. Expected values:

- Active: The feature is active.
- Inactive: The feature is not active.

SZIQ900I   `IOO Tables and Modules`

Explanation: Issued by program ULTIQST as the header line for the section auditing the current IOO tables and modules.

SZIQ901I   `Global Tbl(`*`aa`*`): `*`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the current IOO global table. Fields in the message:

Field	Description
aa	Table suffix.
bbbbbbbb	Date the table was generated (in '*mm/dd/yy*' format).
ccccc	Time the table was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ902I   `Rules Tbl(`*`aa`*`): `*`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the current IOO optimization rules table. Fields in the message:

Field	Description
aa	Table suffix.
bbbbbbbb	Date the table was generated (in '*mm/dd/yy*' format).
ccccc	Time the table was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ903I   `Device Tbl(`*`aa`*`): `*`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the current IOO device table. Fields in the message:

Field	Description
aa	Table suffix.
bbbbbbbb	Date the table was generated (in '*mm/dd/yy*' format).
ccccc	Time the table was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ910I   `Mod (`*`aaaaaaaa`*`): `*`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

`SZIQ911I`   **Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee***

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

`SZIQ912I`   **Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee***

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

`SZIQ913I`   **Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee***

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

`SZIQ914I`   **Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee***

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ915I   Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ916I   Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ917I   Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ918I   Mod (*aaaaaaaa*): *bbbbbbbb-ccccc,dddd,eeeeeeee*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ919I   `Mod (`*`aaaaaaaa`*`):` *`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ920I   `Mod (`*`aaaaaaaa`*`):` *`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ921I   `Mod (`*`aaaaaaaa`*`):` *`bbbbbbbb-ccccc,dddd,eeeeeeee`*

Explanation: Issued by program ULTIQST to audit the identification data of the modules used by the target IOO subsystem. Fields in the messages:

Field	Description
aaaaaaaa	Module name.
bbbbbbbb	Date the module was generated (in '*mm/dd/yy*' format).
ccccc	Time the module was generated (in '*hh.mm*' format).
dddd	StarTool IOO product release number.
eeeeeeee	Module load address.

SZIQ930I   `DCFCT Table: Address=@@@@@@@@,Lv=@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the address and length of the current IOO DCFCT (DCF Control Table).

SZIQ931I   `ASTB Table: Address=@@@@@@@@,Lv=@@@@@@@@`

Explanation: Issued by program ULTIQST to audit the address and length of the current IOO ASTB (Address Space Table).

SZIQ932I   `- DCF Rule Text : @@@@@@@@,@@@@@@@@`

Explanation: The storage represented in this message is associated with the DCF rule text reported by DCF request tracing.

SZIQ933I   `- (E)CSA storage in use:              @@@@@@@@`

Explanation: The value reported in this message is the sum of all CSA and ECSA acquired by IOO.

SZIRP01E   `ULTIREP is not running APF authorized.`

Explanation: Issued by program ULTIREP. Program ULTIREP requires APF authorization. Program ULTIREP is unable to continue.

SZIRP02E   `Insufficient execution parameters.`

Explanation: Issued by program ULTIREP. The parameters provided to program ULTIREP were insufficient for program execution. Valid execution parameters must be in the following format PARM=*aaaa,b...b*

where:

- *aaaa* is the name of the target IOO subsystem.
- *bbbbbbbb* is the name of the program to be replaced.

Program ULTIREP is unable to continue.

SZIRP03E   `Error obtaining IOO storage for C'`*xxxxxxxx*`',RC=X'@@@@@@@@',`
`LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIREP. Program ULTIREP attempted to obtain storage for IOO component 'xxxxxxxx' but encountered a failure in the IBM STORAGE macro. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
LV	Hexadecimal length of the storage being obtained.
SP	Hexadecimal residency subpool of the storage being obtained.

Program ULTIREP is unable to continue.

SZIRP04E   `LOAD macro failure for C'`*xxxxxxxx*`',R15-R1=X'`*aaaaaaaa bbbbbbbb*
cccccccc`'.`

Explanation: Issued by program ULTIREP. Program ULTIREP was unable to load a needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	Name of the needed program.
aaaaaaaa	Contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	Contents of R0 upon return from the IBM LOAD macro.
cccccccc	Contents of R1 upon return from the IBM LOAD macro.

Program xxxxxxxx is unable to continue.

SZIRP05E `IOO subsystem @@@@ located, but global table ptr is invalid.`

`SSCT address = X'`*xxxxxxxx*`'. SSCTUSER field = X'`*yyyyyyyy*`'.`

Explanation: Issued by program ULTIREP. IOO subsystem @@@@ was found, but no associated global table was found. Fields in the message:

Field	Description
xxxxxxxx	Hexadecimal address of the associated SSCT.
yyyyyyyy	Hexadecimal contents of the associated SSCTUSER field.

Program ULTIREP is unable to continue.

SZIRP06E `StarTool IOO @@@@ subsystem not found. IOOSSN return code=X'@@@@@@@@'.`

Explanation: Issued by program ULTIREP. IOO subsystem @@@@ could not be found. The return code from the associated IOOSSN macro is included in the message text. Program ULTIREP is unable to continue.

SZIRP07I
```
**-----------------------------------**
** IOO aaaa bbbb status before update **
**-----------------------------**
```

Explanation: Issued by program ULTIREP. Status display of the IOO subsystem prior to module replacement. Fields in the message:

Field	Description
aaaa	Name of the target IOO subsystem.
bbbb	Version number of the target IOO subsystem.

SZIRP08I
```
**-----------------------------------**
** IOO aaaa bbbb status after update **
**-----------------------------**
```

Explanation: Issued by program ULTIREP. Status display of the IOO subsystem subsequent to module replacement. Fields in the message:

Field	Description
aaaa	Name of the target IOO subsystem.
bbbb	Version number of the target IOO subsystem.

SZIRP10E `IOO aaaa bbbb status display failed.`

Explanation: Issued by program ULTIREP. The request by program ULTIREP to display the status of the IOO subsystem has failed. Fields in the message::

Field	Description
aaaa	Name of the target IOO subsystem.
bbbb	Version number of the target IOO subsystem.

If an error is encountered prior to the module replacement, program ULTIREP will terminate execution.

SZIRP11E   `Error releasing IOO storage for C'xxxxxxxx',RC=X'@@@@@@@@',`
`A=X'@@@@@@@@',LV=X'@@@@@@@@',S P=X'@@@@@@@@'.`

Explanation: Issued by program ULTIREP. The IBM STORAGE macro issued by program ULTIREP to release the storage allocated for IOO component '*xxxxxxxx*' has failed. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the storage being released.
LV	Hexadecimal length of the storage being released.
SP	Hexadecimal residency subpool of the storage being released.

Program ULTIREP is unable to continue.

SZIRP12I   `IOO storage released for C'xxxxxxxx',RC=X'@@@@@@@@',A=X'@@@@@@@@',`
`LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIREP. Program ULTIREP has released the storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

SZIRP13I   `New module data:`
`Name=C'@@@@@@@@',Address=X'@@@@@@@@',Lv=X'@@@@@@@@'.`

Explanation: Issued by program ULTIREP. Audit of the module data for the replaced module. Fields in the message :

Field	Description
Name	Name of the replaced module.
Address	Address of the replace module.
Lv	Length of the replace module.

SZIRP14E   `Unsupported module name requested : C'@@@@@@@@'.`

Explanation: Issued by program ULTIREP. The execution parameters provided to program ULTIREP referenced a program that is not supported for replacement by program ULTIREP. Program ULTIREP is unable to continue.

| SZIRP15I | `Pgm(@@@@@@@@),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@),`
`Epa(@@@@@@@@).` |

Explanation: Audit message issued by program ULTIREP to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.

| SZIRP16E | `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.` |

Explanation: Issued by program ULTIREP. Program ULTIREP was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTIREP is unable to continue.

| SZIRP17E | `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.` |

Explanation: Issued by program ULTIREP. Program ULTIREP was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTIREP is unable to continue.

| SZIRP18E | `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.` |

Explanation: Issued by program ULTIREP. Program ULTIREP was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTIREP is unable to continue.

SZIRP19E   `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.`

Explanation: Issued by program ULTIREP. Program ULTIREP was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program *xxxxxxx* is unable to continue.

SZIRP21E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIREP. Program ULTIREP attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIREP is unable to continue.

SZIRP22E   `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTIREP. The indicated IOO subsystem was owned by another task and program ULTIREP issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTIREP is unable to continue.

SZIRP23I   `IOO @@@@ subsystem owned by another task - waiting for its availability.`

Explanation: Issued by program ULTIREP. Program ULTIREP attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZIRP24I   `IOO @@@@ subsystem ownership obtained on yyyy/mm/dd at hh:mm:ss, ENQ RC=X'@@'.`

Explanation: Issued by program ULTIREP. Program ULTIREP has obtained ownership of the requested IOO subsystem at the indicated time. The return code from the IBM ENQ macro is included.

SZIRP25I   `IOO @@@@ subsystem ownership released on yyyy/mm/dd at hh:mm:ss, DEQ RC=X'@@'.`

Explanation: Issued by program ULTIREP. Program ULTIREP has relinquished ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

SZIRP27I   `IOO storage released for C'xxxxxxxx',RC=X'@@@@@@@@',A=X'@@@@@@@@',`
`LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTIREP. Program ULTIREP has released the storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

SZISS14E   `Error obtaining storage for 'xxxxxxxx',STORAGE macro R15`
`RC=X'@@@@@@@@',LV=X'@@@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTISSI. Program ULTISSI attempted to obtain storage for IOO component '*xxxxxxxx*' but encountered a failure in the IBM STORAGE macro. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

Program ULTISSI is unable to continue.

SZISS16E   `LOAD macro failure for module 'xxxxxxxx',R15 RC=X'aaaaaaaa',`
`R0 RS=X'bbbbbbbb'.`

Explanation: Issued by program ULTISSI. Program ULTISSI was unable to load a needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	Name of the needed program.
aaaaaaaa	Contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	Contents of R0 upon return from the IBM LOAD macro.

Program ULTISSI is unable to continue.

SZISS17E   `Invalid module,MLWA=C'xxxxxxxx',MID=C'yyyyyyyy'.`

Explanation: Issued by program ULTISSI. Program ULTISSI was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program @@@@@@@@ is unable to continue.

SZISS18E **Invalid '***xxxxxxxx***' module. First instruction is not a branch instruction.**

Explanation: Issued by program ULTISSI. Program ULTISSI was able to load program *xxxxxxxx* into storage, but was unable to use the load module because the first instruction should have been a branch instruction but was not. Program ULTISSI is unable to continue.

SZISS20E **Subsystem C'@@@@' does not exist and must be defined outsize of IOO.**

Explanation: Issued by program ULTISSI. Program ULTISSI has been asked to use IBM's IEFJSVEC to process subsystems and subsystems functions. In order to use that method, the subsystem @@@@ must be defined outside of IOO.

SZISP01I **Pgm(@@@@@@@@),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@) , Epa(@@@@@@@@).**

Explanation: Audit message issued by program ULTISTP to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.

SZISP02E **ULTISTP is not running APF authorized.**

Explanation: Issued by program ULTISTP. Program ULTISTP requires APF authorization. Program ULTISTP is unable to continue.

SZISP03E **Invalid execution parameters. Execution parameters must consist of a 4-character SSN.**

Explanation: Issued by program ULTISTP. Execution parameters for program ULTISTP must be provided and must consist of the CL4 subsystem name of the target IOO subsystem which the program is to attempt to shut down. Program ULTISTP is unable to continue.

SZISP04I **StarTool IOO *xxxx yyyy* shutdown is complete.**

Explanation: Issued by program ULTISTP. The target IOO subsystem has been stopped. Fields in the message:

Field	Description
xxxx	Name of the target IOO subsystem.
yyyy	Version number of the target IOO subsystem.

Program ULTISTP is unable to continue.

SZISP05E **StarTool IOO @@@@ subsystem not found.**

Explanation: Issued by program ULTISTP. IOO subsystem @@@@ could not be found. Program ULTISTP is unable to continue.

SZISP06E   **StarTool IOO @@@@ global table not found.**

Explanation: Issued by program ULTISTP. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTISTP is unable to continue.

SZISP07E   **ULTICALL macro failure when calling ULTIQST.**

Explanation: Issued by program ULTISTP. IOO subsystem @@@@ was found, but no associated global table was found. Program ULTISTP is unable to continue.

SZISP08E   **IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').**

Explanation: Issued by program ULTISTP. Program ULTISTP attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTISTP is unable to continue.

SZISP09E   **IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').**

Issued by program ULTISTP. The indicated IOO subsystem was owned by another task and program *xxxxxxx* issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTISTP is unable to continue.

SZISP10I   **IOO @@@@ subsystem owned by another task - waiting for its availability.**

Explanation: Issued by program ULTISTP. Program ULTISTP attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZISP11I   **IOO @@@@ subsystem ownership released on *yyyy/mm/dd* at *hh:mm:ss*, DEQ RC=X'@@'.**

Explanation: Issued by program ULTISTP. Program ULTISTP has relinquised ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

SZISP14E   **LOAD macro failure for C'*xxxxxxxx*',R15-R1=X'*aaaaaaaa bbbbbbbb cccccccc*'.**

Explanation: Issued by program ULTISTP. Program ULTISTP was unable to load a needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	Name of the needed program.
aaaaaaaa	Contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	Contents of R0 upon return from the IBM LOAD macro.
cccccccc	Contents of R1 upon return from the IBM LOAD macro.

SZISP15E   `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

Explanation: Issued by program ULTISTP. Program ULTISTP was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTISTP is unable to continue.

SZISP16E   `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

Explanation: Issued by program ULTISTP. Program ULTISTP was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTISTP is unable to continue.

SZISP17E   `Module '`*xxxxxxxx*`' is at an invalid level. Expected level '`*aaa*`', found level '`*bbb*`'.`

Explanation: Issued by program ULTISTP. Program ULTISTP was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program *xxxxxxx* is unable to continue.

SZISP18E **Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.**

Explanation: Issued by program ULTISTP. Program ULTISTR was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

Program xxxxxxx is unable to continue.

SZIST00I **CLOSE report for xxxxxxxx suppressed due to statistics threshold.**

Explanation: This message denotes the fact that the report generated by the CLOSE of an IOO-optimized data set was suppressed due to the EXCP count for the data portion of the VSAM cluster being less than the STATTHLD value in the IOO Global Rules table.

SZIST01E **Startup parm field is invalid.**

Explanation: Issued by program ULTISTR. Standard execution parameters for program ULTISTR must be provided and consist of the CL2 suffix of the IOO global table that is to be used. Program ULTISTR is unable to continue.

SZIST02E **ULTISTR is not running APF authorized.**

Explanation: Issued by program ULTISTR. Program ULTISTR requires APF authorization. Program ULTISTR is unable to continue.

SZIST03E **StarTool-IOO xxxx yyyy is already active.**

Explanation: Issued by program ULTISTR. A request was made to activate an IOO subsystem. However, the target subsystem is already active. Fields in the message:

Field	Description
xxxx	Name of the target IOO subsystem.
yyyy	Version number of the target IOO subsystem.

SZIST04E **Error obtaining IOO storage for C'xxxxxxxx',RC=X'@@@@@@@@', LV=X'@@@@@@',SP=X'@@'.**

Explanation: Issued by program ULTISTR. Program ULTISTR attempted to obtain storage for IOO component 'xxxxxxxx' but encountered a failure in the IBM STORAGE macro. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
LV	Hexadecimal length of the storage being obtained.
SP	Hexadecimal residency subpool of the storage being obtained.

Program ULTISTR is unable to continue.

SZIST05E   `LOAD macro failure for C'`*`xxxxxxxx`*`',R15-R1=X'`*`aaaaaaaa bbbbbbbb`* *`cccccccc`*`'.`

Explanation: Issued by program ULTISTR. Program ULTISTR was unable to load a needed program into storage. Fields in the message:

Field	Description
xxxxxxxx	Name of the needed program.
aaaaaaaa	Contents of R15 upon return from the IBM LOAD macro.
bbbbbbbb	Contents of R0 upon return from the IBM LOAD macro.
cccccccc	Contents of R1 upon return from the IBM LOAD macro.

Program ULTISTR is unable to continue.

SZIST06E   `Module name error,MLWA=C'`*`xxxxxxxx`*`',MID='`*`yyyyyyyy`*`'.`

Explanation: Issued by program ULTISTR. Program ULTISTR was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

Program ULTISTR is unable to continue.

SZIST07I   `StarTool-IOO startup is in progress.`

Explanation: Issued by program ULTISTR. The requested startup of StarTool=IOO is in progress.

SZIST08I   `StarTool-IOO `*`xxxx yyyy`*` activated.`

Explanation: Issued by program ULTISTR. The requested IOO subsystem has been activated. Fields in the message:

Field	Description
xxxx	Name of the target IOO subsystem.
yyyy	Version number of the target IOO subsystem.

SZIST09E   `Error inserting ULTISI1,RC=X'`*`xxxxxxxx`*`'.`

Explanation: Issued by program ULTISTR. Program ULTISTR encountered an error while attempting to insert system interface ULTISI1. Field in the message:

Field	Description
xxxxxxxx	Hexadecimal return code from the IOOSVC macro.

SZIST10E   `Error inserting ULTISI2,RC=X'@@@@@@@@'.`

Issued by program ULTISTR. Program ULTISTR encountered an error while attempting to insert system interface ULTISI2. Field in the message:

Field	Description
xxxxxxxx	Hexadecimal return code from the IOOSVC macro.

SZIST11E   `ULTISTR execution terminated due to STRPRINT OPEN failure.`

Explanation: Issued by program ULTISTR. Program ULTISTR was unable to open DDname STRPRINT. Program ULTISTR is unable to continue.

SZIST12I   `System interface 1 for SVC 19 reactivated.`

Explanation: Issued by program ULTISTR. IOO system interface module ULTISI1 had its status changed from 'inactive' to 'active' as part of the IOO startup.

SZIST13I   `System interface 2 for SVC 64 reactivated.`

Explanation: Issued by program ULTISTR. IOO system interface module ULTISI1 had its status changed from 'inactive' to 'active' as part of the IOO startup.

SZIST14I   `Insufficient ECSA for ASTB of length X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. Messages SZIST14I and SZIST15I should be issued together. Insufficient ECSA storage existed for an ASTB of the indicated length. CSA storage has been used instead of ECSA stoage.

SZIST15I   `CSA storage was successfully used.`

Explanation: Issued by program ULTISTR. Messages SZIST14I and SZIST15I should be issued together. Insufficient ECSA storage existed for an ASTB of the indicated length. CSA storage has been used instead of ECSA stoage.

SZIST16E   `Failure in ULTISSI service routine, RC =X'@@@@@@@@',`
                `FC =X'@@@@@@@@', RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. An error has been encountered in the ULTISSI service routine. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST17E   `IOO was unable to locate the correct SSCVT, RC =X'@@@@@@@@',`
               `FC =X'@@@@@@@@',RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. IBM macros and services indicated that the target IOO subsystem was already active, but IOO module ULTISSI was not able to locate the correct SSCVT. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST18E   `Invalid parameter list passed to ULTISSI, RC =X'@@@@@@@@',`
               `FC =X'@@@@@@@@', RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. IOO module ULTISSI has rejected the parameter list passed to it by program ULTISTR. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST19E   `IOO subsystem function deactivation failure, RC =X'@@@@@@@@',`
               `FC =X'@@@@@@@@', RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. A request to disable a subsystem function code has failed. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST20E   IOO subsystem function request failure, RC =X'@@@@@@@@',
                FC =X'@@@@@@@@', RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.

Explanation: Issued by program ULTISTR. A request to extract the status of a subsystem function code has failed. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST21E   IOO subsystem function activation failure, RC =X'@@@@@@@@',
                FC =X'@@@@@@@@', RCB=X'@@@@@@@@',RSB=X'@@@@@@@@',IRS=X'@@@@@@@@'.

Explanation: Issued by program ULTISTR. A request to activate a subsystem function code has failed. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal primary return code from the ULTISSI service.
FC	Hexadecimal function code passed to the ULTISSI service.
RCB	Hexadecimal secondary return code from the ULTISSI service.
RSB	Hexadecimal secondary reason code from the ULTISSI service.
IRS	Hexadecimal primary reason code from the ULTISSI service.

Solution: Contact technical support.

SZIST22E   StarTool IOO @@@@ status display failed. Processing will continue.

Explanation: Issued by program ULTISTR. An error was encountered while calling program ULTIINQ to display the updated IOO status. Program ULTISTR will bypass the IOO status display.

SZIST23E   Error releasing IOO storage for
                '*xxxxxxxx*',RC=X'@@@@@@@@',A=X'@@@@@@@@',LV=X'@@@@@@@@',
                SP=X'@@@@@@@@'.

Explanation: Issued by program ULTISTR. The IBM STORAGE macro issued by program ULTISTR to release the storage allocated for IOO component '*xxxxxxxx*' has failed. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the storage being released.
LV	Hexadecimal length of the storage being released.
SP	Hexadecimal residency subpool of the storage being released.

Solution: Contact technical support.

SZIST24I   `Default product startup profile used.`

Explanation: Issued by program ULTISTR. No product profile was requested via the global table. The default product profile has been used instead.

SZIST25E   `ULTICALL macro failure when calling ULTIC00.`

Explanation: Issued by program ULTISTR. The ULTICALL macro issued by program ULTISTR to call program ULTIC00 to load the DCF Control Table has failed. Program ULTISTR is unable to continue.

Solution: Contact technical support.

SZIST26E   `Invalid subsystem name : '@@@@'.`

Explanation: Issued by program ULTISTR. The requested target subsystem name is invalid. Valid subsystem names must be in the format U*xxx*

where:

xxx is a valid numeric string.

Program ULTISTR is unable to continue.

SZIST30E   `Error inserting ULTISI3,RC=X'@@@@@@@@'.`

Explanation: Issued by program ULTISTR. Program ULTISTR encountered an error while attempting to insert system interface ULTISI3. Field in the message:

Field	Description
xxxxxxxx	Hexadecimal return code from the IOOSVC macro.

Solution: Contact technical support.

SZIST31I   `System interface 3 for SVC 20 reactivated.`

Explanation: Issued by program ULTISTR. IOO system interface module ULTISI1 had its status changed from 'inactive' to 'active' as part of the IOO startup.

SZIST32E   `Previous IOO '@@@@' is still active.`

Explanation: Issued by program ULTISTR. The target IOO subsyste @@@@ is still active. Program ULTISTR is unable to continue.

SZIST34E   `Internal error in service @@@@@.`

Explanation: Issued by program ULTISTR. Program ULTISTR has encountered an internal error in service routine @@@@@. Program ULTISTR is unable to continue.

Solution: Contact technical support.

SZIST36I   `DCFCT is in use, waiting for availability.`

Explanation: Issued by program ULTISTR. The current DCF control table use count is non-zero (indicating that it is in use). Program ULTISTR is waiting for it to become available.

SZIST37I   `Re-checking DCFCT availability.`

Explanation: Issued by program ULTISTR. Program ULTISTR is re-testing the DCF control table use count.

SZIST38E   `DCFCT Storage release forced,A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTISTR. The use count in the DCF control table was deemed to be a stranded valud by program ULTISTR. As such, the deletion of the existing DCF control table has been forced by IOO. Fields in the message:

Field	Description
A	Hexadecimal address of the existing DCF control table.
LV	Hexadecimal length of the existing DCF control table.
SP	Hexadecimal residency subpool number of the existing DCF control table.

SZIST39I   `DCFCT Storage released,A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTISTR. Program ULTISTR has released the storage used by the previous DCF control table. Fields in the message:

Field	Description
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal subpool of the released storage.

SZIST42E   `Module name error,MLWA=C'`*xxxxxxxx*`',MID='`*yyyyyyyy*`'.`

Explanation: Issued by program ULTISTR. Program ULTISTR was able to load a needed program into storage, but was unable to use the load module because the program name in the MLWA (Module Loading Work Area) did not match the program name in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
xxxxxxxx	Expected load module name.
yyyyyyyy	Extracted load module name.

SZIST44E   `Module '`*xxxxxxxx*`' is at an invalid level. Expected level '`*aaa*`', found level '`*bbb*`'.`

Explanation: Issued by program ULTISTR. Program ULTISTR was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the old-format MID (Module Identification Data) at the start of the loaded program's csect. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

SZIST45E `Module 'xxxxxxxx' is at an invalid level. Expected level 'aaa', found level 'bbb'.`

Explanation: Issued by program ULTISTR. Program ULTISTR was able to load a needed program into storage, but was unable to use the load module because the expected level of the loaded module did not match the level found in the new-format MID (Module Identification Data) at the start of the loaded program's csect. Program ULTISTR is unable to continue. Fields in the message:

Field	Description
xxxxxxxx	Loaded program's name.
aaa	Extracted module level.
bbb	Retrieved module level.

SZIST46I `Pgm(@@@@@@@@),Vers(@@@@@@@@),Timestamp(@@@@@@@@,@@@@@), Epa(@@@@@@@@).`

Explanation: Audit message issued by program ULTISTR to audit program initiation. Fields in the message:

Field	Description
Vers	Program version number.
Timestamp	Program assembly date and time.
Epa	Entry point address of the program.

SZIST47I `IOO @@@@ subsystem owned by another task - waiting for its availability.`

Explanation: Issued by program ULTISTR. Program ULTISTR attempted to obtain ownership of the requested IOO subsystem but was unable to do so because the subsystem was already owned by another task. The program is now waiting for the subsystem to become available.

SZIST48E `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTISTR. Program ULTISTR attempted to obtained ownership of the requested IOO subsystem, but was unable to do so because the IBM ENQ macro issued by the program has failed with the indicated return code. Program ULTISTR is unable to continue.

SZIST49E `IOO @@@@ subsystem ownership not obtained due to ENQ macro failure (RC=X'@@').`

Explanation: Issued by program ULTISTR. The indicated IOO subsystem was owned by another task and program ULTISTR issued an IBM ENQ macro to wait for the subsystem to become available. The IBM ENQ macro issued by the program has failed with the indicated return code. - Program ULTISTR is unable to continue.

SZIST50I `IOO @@@@ subsystem ownership obtained on yyyy/mm/dd at hh:mm:ss, ENQ RC=X'@@'.`

Explanation: Issued by program ULTISTR. Program ULTISTR has obtained ownership of the requested IOO subsystem at the indicated time. The return code from the IBM ENQ macro is included.

`SZIST51I`	`IOO @@@@ subsystem ownership released on` *yyyy/mm/dd* `at` *hh:mm:ss*`,` `DEQ RC=X'@@'.`

Explanation: Issued by program ULTISTR. Program ULTISTR has relinquished ownership of the indicated IOO subsystem at the indicated time. The return code from the IBM DEQ macro is included.

`SZIST52I`	`IOO storage released for C'`*xxxxxxxx*`',RC=X'@@@@@@@@',` `A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@'.`

Explanation: Issued by program ULTISTR. Program ULTISTR has released the storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the released storage.
LV	Hexadecimal length of the released storage.
SP	Hexadecimal residency subpool of the released storage.

`SZIST54I`	`IOO storage obtained for C'`*xxxxxxxx*`',RC=X'@@@@@@@@',` `A=X'@@@@@@@@',LV=X'@@@@@@',SP=X'@@' .`

Issued by program ULTISTR. Program ULTISTR has obtained storage for IOO component '*xxxxxxxx*'. Fields in the message:

Field	Description
RC	Hexadecimal return code from the IBM STORAGE macro.
A	Hexadecimal address of the obtained storage.
LV	Hexadecimal length of the obtained storage.
SP	Hexadecimal residency subpool of the obtained storage.

`SZIST55W`	`SAF extract failure R15=@@@@@@@@, RC=@@@@, RS=@@@@.`

Explanation: A RACROUTE REQUEST=EXTRACT call was issued for the facility class name specified by the FACILITY= keyword in IOO's Global Rules table and it failed with the error detail shown. The DMM (Dynamic Memory Management) feature of IOO will be disabled.

`SZIST56W`	`DMM feature disallowed so turned off.`

Explanation: The DMM facility class was not defined to RACF so the DMM feature will not be allowed to operate.

`SZIST57E`	`BLDL failure, ABEND will follow.`

Explanation: A required load module could not be found. This message will be followed by one or more instances of SZIST59E and an abend.

`SZIST58E`	`LOAD failure, ABEND will follow.`

Explanation: A required load module could not be loaded. This message will be followed by a U0100 abend.

SZIST59E   `@@@@@@@@ not found.`

Explanation: The specified load module could not be found. This message will be preceded by SZIST57E and followed by an abend.

SZI010*m*I   `job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,fffffffffff,`
`RULE=rule,dsname,TIME=hh:mm:ss,DATE=yyyy/mm/dd.`

Explanation: Issued by program ULTI200. LSR optimization was successful. IOO determined the resource pool parameters. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix A).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI011`*m*`I` `job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,`
`RULE=`*rule*`,`*dsname*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd*`.`

Explanation: Issued by program ULTI200. LSR optimization was successful. IOO used a user-coded BLDVRP macro. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix A).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI012`*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
                     `RULE=`*rule,dsname,*`TIME=`*hh:mm:ss,*`DATE=`*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. LSR optimization was successful. IOO was forced to use a previous resource pool by IBM's OPEN macro processing. ields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix A).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

| SZI020*my* | *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,* RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.* |

Explanation: Issued by program ULTI200. NSR optimization was successful. No buffering bias was used. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI021*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successful. IOO biased the buffering in favor of dynamic access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI022*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successful. IOO biased the buffering in favor of sequential access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI023*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successful. IOO biased the buffering in favor of direct access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

| SZI030*my* | *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,* RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.* |

Explanation: Issued by program ULTI200. NSR optimization was successfully forced. No buffering bias was used. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI031`*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
`RULE=`*rule,dsname,*`TIME=`*hh:mm:ss,*`DATE=`*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successfully forced. IOO biased the buffering in favor of dynamic access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI032*my*   *job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,ffffffffffff,*
RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successfully forced. IOO biased the buffering in favor of sequential access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI033`*my*　　　*job,step,dd,pgm,vol,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,fffffffffff,*
`RULE=`*rule,dsname,*`TIME=`*hh:mm:ss,*`DATE=`*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. NSR optimization was successfully forced. IOO biased the buffering in favor of direct access. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
y	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgm	Program name.
vol	Residency volume serial number of the optimized data set.
v...v	Variable data (described in Appendix B).
f...f	IOO flags (described in Appendix C).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI040`*mt*   `job,step,dd,pgmname,volser,BLDVRP macro override rc=00,`
`ffffffffffff,RULE=rule,dsname,TIME=hh:mm:ss,DATE=yyyy/mm/dd.`

Explanation: Issued by program ULTI200. IOO has honored a request to override a BLDVRP macro. A return code of 0 (indicative of BLDVRP macro success) was given to the issuer of the BLDVRP macro. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI041*mt*   *job,step,dd,pgmname,volser*,ACB shrpool number set to
xxx,ffffffffffff,RULE=*rule,dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. The data set was optimized using LSR by inserting an LSR shrpool number into the ACB. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xxx	Decimal LSR shrpool number set by IOO.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI042*mt*   *job,step,dd,pgmname,volser,*User BLDVRP macro failure, rc=*xx* ,
*fffffffffff,*RULE=*rule,dsname,*TIME=*hh:mm:ss,*DATE=*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. IOO was unable to use LSR for optimal buffering due to a failure in a user-coded BLDVRP macro. IOO will force the use of NSR optimization. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the user-coded BLDVRP macro.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI043`*mt*	*job,step,dd,pgmname,volser*`,ACB shrpool number set to` *xxx* `,` *ffffffffffff*`,RULE=`*rule,dsname*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd*`.`

Explanation: Issued by program ULTI200. All available LSR resource pools have been used and IOO is unable to obtain an optimized resource pool for an ACB whose use of LSR was requested by the application. IOO will reinstate the original resource pool number and terminate. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xxx	Decimal LSR shrpool number reinstated by IOO.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI044`*mt*   *job*,*step*,*dd*,*pgmname*,*volser*,*vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv*,
                    fffffffffff,`RULE=`*rule*,*dsname*,`TIME=`*hh:mm:ss*,`DATE=`*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. Due to a BLDVRP macro failure, IOO was unable to perform optimal LSR buffering. This message audits the optimal LSR buffering attempted by IOO. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
v...v	Variable data. Reference the variable data as used by message SZI010*m*I for details.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.		
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI045`*mt*   *job,step,dd,pgmname,volser,vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv,*
ffffffffffff`,RULE=`*rule,dsname,*`TIME=`*hh:mm:ss,*`DATE=`*yyyy/mm/dd.*

Issued by program ULTI200. IOO was unable to use LSR for optimal buffering. This message audits the optimal LSR buffering attempted by IOO. IOO will force the use of NSR optimization. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
v...v	Variable data. Reference the variable data as used by message SZI010*m*I for details.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI050*mt*   *job,step,dd,pgmname,volser*,Optimization attempt bypassed, *ffffffffffff*,RULE=*rule,dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. Optimization of the data set has been bypassed because the data set was defined as SHROPTIONS(4) and global option SHROPT4=NO was in effect. IOO's optimization attempt was based upon the use of LSR. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI051*mt*   *job,step,dd,pgmname,volser*,`Optimization attempt bypassed,`
fffffffffff,`RULE=`*rule,dsname*,`TIME=`*hh:mm:ss*,`DATE=`*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. The application attempted to open the data set using LSR. IOO determined that NSR should be used but was unable to use NSR because FORCENSR=OK was not coded in either the selected optimization rule or the associated DCF rule. IOO will bypass optimization of the data set. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

`SZI052`*mt*   `job,step,dd,pgmname,volser,`Optimization attempt bypassed,
`fffffffffff,`RULE=`rule,dsname,`TIME=`hh:mm:ss,`DATE=`yyyy/mm/dd.`

Explanation: Issued by program ULTI200. Optimization of the data set has been bypassed because the data set was defined as SHROPTIONS(4) and global option SHROPT4=NO was in effect. IOO's optimization attempt was based upon the use of NSR. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI053*mt*   *job,step,dd,pgmname,volser*,Optimization attempt bypassed,
                    ffffffffffff,RULE=*rule*,*dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. Optimization of the data set has been bypassed because the open of the data set failed and IOO was not able to successfully recover from the failure. Reference the job log for additional messages describing the error. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI060*mt*   *job,step,dd,pgmname,volser*,BLDVRP macro status, RC=*xx,yyy*,
                    ffffffffffff,RULE=*rule,dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. A BLDVRP macro issued for BLDVRP=AUTO
processing requesting both main storage and hiperspace buffers has failed. IOO will
reissue the BLDVRP macro without the hiperspace buffers. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the BLDVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI061*mt* `job,step,dd,pgmname,volser`,BLDVRP macro status, RC=`xx,yyy`,
`ffffffffffff`,RULE=`rule,dsname`,TIME=`hh:mm:ss`,DATE=`yyyy/mm/dd`.

Explanation: Issued by program ULTI200. A BLDVRP macro issued for BLDVRP=AUTO processing has failed. IOO will force the use of NSR optimization. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the BLDVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI062*mt*   `job,step,dd,pgmname,volser,DLVRP macro return code=`*xx*`,`*yyy*`,`
`ffffffffffff,RULE=`*rule*`,`*dsname*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd*`.`

Explanation: Issued by program ULTI200. Audit/error message for DLVRP macro IOO issued while attempting to reuse an LSR shrpool. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the DLVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI063*mt* `job,step,dd,pgmname,volser,DLVRP macro return code=`*xx,yyy*`,` *ffffffffffff*`,RULE=`*rule,dsname*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd*`.`

Explanation: Issued by program ULTI200. Audit/error message for DLVRP macro issued by IOO to delete a resource pool whose shrpool was different than requested. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the DLVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI064*mt*	*job,step,dd,pgmname,volser*,DLVRP macro return code=*xx,yyy,* *fffffffffff*,RULE=*rule,dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200. Audit/error message for DLVRP macro IOO issued to delete a resource pool so it can be restructured by IOO. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the DLVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI065*mt*   `job,step,dd,pgmname,volser,DLVRP macro return code=`*xx,yyy,*
`ffffffffffff,RULE=`*rule,dsname,*`TIME=`*hh:mm:ss,*`DATE=`*yyyy/mm/dd.*

Explanation: Issued by program ULTI200. Audit/error message for DLVRP macro IOO issued to delete a resource pool during recovery from a failed attempt to use LSR. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the DLVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI066*mt*   `job,step,dd,pgmname,volser,BLDVRP macro status, RC=xx,yyy,`
`ffffffffffff,RULE=rule,dsname,TIME=hh:mm:ss,DATE=yyyy/mm/dd.`

Explanation: Issued by program ULTI200. A BLDVRP macro issued for BLDVRP=AUTO index processing has failed. IOO will force the use of NSR optimization. Fields in the message:

Field	Description
m	IOO's startup mode: ■ E: Exempt mode ■ M: Mixmod mode ■ S: Select mode
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
step	Step name.
dd	DDname.
pgmname	Program name.
volser	Residency volume serial number of the optimized data set.
xx	Decimal return code from the BLDVRP macro.
yyy	Decimal LSR shrpool number.
f...f	IOO flags (described in MST component VSAMFLGS. See Appendix C.).
rule	Name of the selected IOO optimization rule.
dsname	Name of the optimized data set.
The following are present only if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time of the optimization.
yyyy/mm/dd	Date of the optimization.

SZI1023W   `Region too small for IOO optimization.`

Explanation: IOO has detected that its target number of buffers would likely cause a storage failure, so it turns off optimization for the DDname in question.

Solution: If optimization is desired the job should be rerun with a larger region size.

SZI1024W   `DCBBUFNO=X'nn'.`

Explanation: This message is for debugging purposes only.

SZI2002E   `Invalid internal ACB found.`

Explanation: Issued by program ULTI200. An invalid IOO internal ACB has been detected. IOO will abend with a S0C3 abend code.

Solution: Contact technical support.

SZI2003E   `BLDVRP tracking table exceeded.`

Explanation: Issued by program ULTI200. The table used by IOO to track BLDVRP macros issued by the user has been exceeded. IOO will abend with a S0C3 abend code. To force the job to run, you can do any of the following:

- Bypass the use of IOO for the step in question.
- Bypass the use of IOO-LSR for the step in question.

Solution: Contact technical support.

SZI2013W   `Optimization bypassed due to SHR(4) for @@@@@@@@`

Explanation: IOO has detected the VSAM cluster being opened is defined with SHR(4,n) or SHR(n,4) and SHROPT4=NO is set in the Global Rules table, which tells IOO not to optimize such clusters. Trying to opimize files defined in this way can often cause a performance degradation.

SZI2069E   `...`

Explanation: Issued by program ULTI200. This message is the same as message SZI066*m*W. Reference message SZI066*m*W for the description.

SZI2408*t*   `job,stepname,ddname,DLP position failure.`
                `dsname,TIME=hh:mm:ss,DATE=yyyy/mm/dd.`

Explanation: Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO attempted to provide LSR optimization but was unable to because of a failure in DLP (Dynamic LSR Positioning) support. IOO then attempted to close the data set and reopen it using NSR but was unable to do so. IOO's VSAM record level interface will abend with a U503 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: - E: Error - I: Informational - W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI2409*t*   *job,stepname,ddname*,DMS-II positioning failure. *dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support attempted to close a data set and reopen it using NSR (instead of LSR). The data set was opened successfully, but IOO was unable to reposition the data set to where it was prior to requesting the close and reopen. IOO's VSAM record level interface will abend with a U504 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

`SZI2410`*t*	*job,stepname,ddname*`,NSR not allowed for DMS-I re-OPEN.` *dsname*`,TIME=`*hh:mm:ss*`,DATE=`*yyyy/mm/dd*`.`

Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support detected that continued use of LSR could cause data integrity issues and attempted to close and reopen that data set using NSR. The data set was successfully closed but was not allowed to use NSR when it was reopened. IOO's VSAM record level interface will abend with a U601 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI2411*t*   *job,stepname,ddname*, `DMS-I re-OPEN forced to use LSR.`
                     dsname,`TIME=`*hh:mm:ss*,`DATE=`*yyyy/mm/dd*.

Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support detected that continued use of LSR could cause data integrity issues and attempted to close and reopen that data set using NSR. The data set was successfully closed but was forced to use LSR when it was reopened. IOO's VSAM record level interface will abend with a U602 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI2412*t*   *job,stepname,ddname*, RPL Support Table exceeded. *dsname*,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Explanation: Issued by program ULTI200 as part of the IOO VSAM record level interface. The maximum size of 256kb for the IOO RST (RPL Support Table) has been exceeded. IOO's VSAM record level interface will abend with a U500 abend code. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI2413*t*   *job,stepname,ddname*, (*xxx*) `ACB DBM re-open failure.`
                     dsname,`TIME=`*hh:mm:ss*,`DATE=`*yyyy/mm/dd.*

Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DBM (Dynamic Buffer Management) support attempt to close and reopen a data set in order to request that buffers be reallocated from below-the-line storage. The data set was successfully closed, but the reopen of the data set failed. IOO's VSAM record level interface will abend with a U501 abend code. Force the use of one of the VSMNSR24 rule either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
xxx	Identifier of the service routine requesting the processing.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI2414*t*   *job,stepname,ddname*, (*xxx*) NSR re-OPEN failure,RC=*yy*.
              dsname,TIME=*hh:mm:ss*,DATE=*yyyy/mm/dd*.

Issued by program ULTI200 as part of the IOO VSAM record level interface. The common service routine used by IOO's VSAM record level interface for closing a data set and reopening it using NSR (Non-Shared Resources) has detected a failure in the reopening of the data set. IOO's VSAM record level interface will abend with a U502 abend code. Force the use of one of the VSMNSR24 rule either via DCF or JCL. Fields in the message:

Field	Description
t	Message type: ■ E: Error ■ I: Informational ■ W: Warning.
job	Job name.
stepname	Step name.
ddname	DDname.
xxx	Identifier of the service routine requesting the processing.
yy	Hexadecimal return code from the reopen processing.
dsname	Name of the optimized data set.
The following are present even if the message is directed to DDname JESYSMSG.	
hh:mm:ss	Time the message was issued.
yyyy/mm/dd	Date the message was issued.

Solution: Contact technical support.

SZI5001I   GBT LSQA rsv < 16mb=X'@@@@@@@@'
             GBT LSQA lrg < 16mb=X'@@@@@@@@'
             GBT HWM < 16mb=X='@@@@@@@@'

Explanation: Messages SZI5001I through SZI5008I detail 'before' and 'after' sizes to document the effect of DMM.

```
SZI5002I          GBT IEALIMIT < 16mb=X'@@@@@@@@'
                  Largest free < 16mb=X'@@@@@@@@'
                  Total SWA < 16mb=X'@@@@@@@@'

SZI5003I          Total LSQA < 16mb=X'@@@@@@@@'
                  Adj LSQA rsv < 16mb=X'@@@@@@@@'
                  LSQA extents < 16mb=X'@@@@@@@@'

SZI5004I          Lrg LSQA ext < 16mb=X'@@@@@@@@'
                  Free LSQA < 16mb=X'@@@@@@@@'

SZI5005I          Old region < 16mb=X'@@@@@@@@'
                  New region < 16mb=X'@@@@@@@@'

SZI5006I          Old region > 16mb=X'@@@@@@@@'
                  New region > 16mb=X'@@@@@@@@'

SZI5007I          Old limit < 16mb=X'@@@@@@@@'
                  New limit < 16mb=X'@@@@@@@@'

SZI5018I          Old limit    > 16mb=X'@@@@@@@@'
                  New limit    > 16mb=X'@@@@@@@@'
```

Explanation: This message accompanies SZI5001I through SZI5007I and is produced when DMM tracing is turned on. The set of messages detail the 'before' and 'after' region sizes to document the effect of DMM.

Appendix A

Variable Text in Messages SZI010*m*I - SZI019*m*I

The variable text in messages SZI010*m*I - SZI019*m*I describes the LSR buffer allocations.

- For main storage buffers:

  (*aabbccddeeeeeeeeffffgggggggghhhh*),x*xxxxxxxxx*y0,RULE=...

  where:

Variable	Description
aa	Hexadecimal LSR shrpool number
bb	ACBMACR1 (before)
cc	ACBMACR2 (before)
dd	ACBMACR3 (before)
eeeeeeee	Hexadecimal index buffer size
ffff	Hexadecimal index buffer count
gggggggg	Hexadecimal data buffer size
hhhh	Hexadecimal data buffer count
x...x	IOO internal flag bytes (described in Appendix C)
y	IOO optimization code (see Appendix D)

■ For hiperspace buffers:

(10*bbccddeeeeeeeeffffgggggggghhhh*),*xxxxxxxxxy*0,RULE=...

where:

Variable	Description
10	Hiperspace indicator
bb	ACBMACR1 (before)
cc	ACBMACR2 (before)
dd	ACBMACR3 (before)
eeeeeeee	Hexadecimal index buffer size
ffff	Hexadecimal index buffer count
gggggggg	Hexadecimal data buffer size
hhhh	Hexadecimal data buffer count
x...x	IOO internal flag bytes (described in Appendix C)
y	IOO optimization code (see Appendix D)

Appendix B

Variable Text in Messages SZI020*m*I - SZI039*m*I

The variable text in messages SZI020*m*I - SCI039*m*I describes the LSR buffer allocations.

(20*bbccddeeeeeeeeffffggggggggghhhh*),*xxxxxxxxxxyz*,RULE=...

where:

Variable	Description
20	NSR optimization indicator
bb	ACBMACR1 (before)
cc	ACBMACR2 (before)
dd	ACBMACR3 (before)
eeeeeeee	Hexadecimal bufferspace (bufsp) value
ffff	Hexadecimal index buffer count
gggggggg	**-- Unused in NSR optimization -**
hhhh	Hexadecimal data buffer count
x...x	IOO internal flag bytes (described in Appendix C)
y	IOO optimization code (See Appendix D)
z	Reason code for the forcing of NSR:
	A	LSR optimization was requested, but the use of NSR was forced due to a major error in the Catalog Service Routine.
	B	LSR optimization was requested, but the use of NSR was forced due to an error encountered while attempting to locate the JCT.
	C	LSR optimization was requested, but the use of NSR was forced because more that 254 LSR OPENs had already been done in the current step.
	D	LSR optimization was requested, but the use of NSR was forced due to a major error encountered with the BLDVRP macro instruction. The BLDVRP had been issued due to BLDVRP=AUTO being coded in the rules table.
	F	LSR optimization was requested, but the use of NSR was forced because the user supplied in the rules table a BLDVRP parameter list that resulted in a return code of 04 when the BLDVRP macro was issued. That particular return code indicates that the user requested a shrpool number that was already in use.

Variable		Description
	G	LSR optimization was requested, but the use of NSR was forced because no model BLDVRP was found in the selected rules table entry.
	H	LSR optimization was requested, but the use of NSR was forced due to existing bits in the ACB MACRF that were not compatible with the use of shared resources.
	I	LSR optimization was requested, but the use of NSR was forced because the data set had never been loaded.
	J	LSR optimization was requested, but the use of NSR was forced due to a previous OPEN of the data set being optimized by a rules table entry coded with CHKMAC=OUT.
	K	LSR optimization was requested, but the use of NSR was forced because it was being OPENed as a reusable data set.
	L	LSR optimization was requested, but the use of NSR was forced due to a major error encountered with the BLDVRP macro instruction. The BLDVRP had been issued due to a user coded BLDVRP macro in the rules table.
	M	The ACB was originally OPENed using LSR, but was closed and re-OPENed using NSR by IOO's VSAM access method interface routine's DMS (Dynamic Mode Selection) logic.
	N	An attempt was made to use LSR to optimize an ACB, but the use of NSR has been forced by the OPEN error retry and recovery support because of a failure in the use of LSR.
	P	The use of NSR was forced due to a non-DMS re-OPEN of the ACB.
	T	The use of NSR was selected by a rules table entry but is being treated as being forced due to the coding of CHKMAC=OUT.
	0	Default value - NSR has not been forced.

Appendix C
Format of the IOO Flag Bytes

- Flag byte # 1 - Flags describing the ULTI200 environment.

Value	Meaning
X'80'	Use of NSR has been forced.
X'40'	CSR has been called.
X'20'	Original OPEN requested MODE=31.
X'10'	CHKMAC=OUT has been matched.
X'08'	An error occured during hiperspace usage attempt.
X'04'	Main storage was selected over hiperspace for index buffers (due to Low-Water-Mark processing).
X'02'	Main storage was selected over hiperspace for data buffers (due to Low-Water-Mark processing).
X'01'	ACB was presented to ULTI200 using LSR.

- Flag byte # 2 - Flags describing the ULTI200 environment.

Value	Meaning
X'80'	Open retry processing is in control.
X'40'	LSR recovery has been attempted.
X'20'	NSR recovery has been attempted.
X'10'	Curent cluster was created using the IMBED attribute.
X'08'	Index component is present.
X'04'	Data component is present.
X'02'	NSR 'biased' Buffer Allocation Technique (BAT) has been used.
X'01'	Cluster was defined using SHROPT4.

■ Flag byte # 3 - Flags describing IOO recursive opens.

Value	Meaning
X'80'	ACB reopened due to DBM (Dynamic Buffer Mgt.).
X'40'	ACB reopened due to DMS (Dynamic Mode Selection).
X'20'	Search for COBOL footprint is in progress.
X'10'	**--- Currently unused ---**
X'08'	BK000 located a COBOL R2.4 footprint.
X'04'	BK000 located a VS-COBOL-II (or above) footprint.
X'02'	Buffer counts in the BLDVRP have been adjusted as per the use of FLAGS=USRVRPLM in the matched rules table entry.
X'01'	IOO has detected BLSR presence in the processing of this OPEN SVC.

■ Flag byte # 4 - Flags describing the RMODE operand.

Value	Meaning
X'80'	ULTI200 has requested that buffers be allocated 'above the line'. Note that this bit applies to both LSR and NSR optimizations.
X'40'	ULTI200 has requested that control blocks be allocated 'above the line'. Note that this bit applies to both LSR and NSR optimizations.
X'20'	Use of RMODE31 is not to be set by ULTI200 for this OPEN.
X'10'	RMODE31=BUFF was used in the ULTI200 BLDVRP macro.
X'08'	RMODE31=CB was used in the ULTI200 BLDVRP macro.
X'04'	Application requested ACBR31B in the ACB.
X'02'	Application requested ACBR31C in the ACB.
X'01'	Application requested ACBMODE in the ACB.

■ Flag byte # 5 - Miscellaneous flag settings.

Value	Meaning
X'80'	This is an initialization call to service B2000.
X'40'	Routine BK000 has been called.
X'20'	Routine BZ000 has been built.
X'10'	SVC 19 was for BLDVRP/DLVRP.
X'08'	Data hiperspace buffers are needed.
X'04'	Index hiperspace buffers are needed.
X'02'	Data hiperspace buffers were used.
X'01'	Index hiperspace buffers were used.

■ Flag byte # 6 - Miscellaneous flag settings.

Value	Meaning
X'80'	ULTI200 has attempted to force the use of a particular shrpool due to the coding of the SHRPOOL= operand in the matched rules table entry.
X'40'	SHRPOOL reuse attempt is in progress.
X'20'	No match was found in the rules table.
X'10'	The data cisize and index cisize are equal.
X'08'	Ulti-IMS support is allowed.
X'04'	Ignore JFCB/ACB rebuffering in the event of a close and reopen.
X'02'	Alias entry was found in catalog.
X'01'	FREE=CLOSE was coded on DD.

Appendix D

Format of the IOO VSAM Optimization Reason Code

The IOO optimization code is displayed in the optimization messages as the next-to-the-last digit of the IOO flags. The IOO optimization codes are broken down into the following groups:

Group	Description	Message Numbers
1	Optimizations where no buffer biasing was performed.	SZI01xmI SZI020mI SZI030mI
2	Optimizations where buffer biasing for dynamic access was performed.	SZI021mI SZI031mI
3	Optimizations where buffer biasing for sequential access was performed.	SZI022mI SZI032mI
4	Optimizations where buffer biasing for direct access was performed.	SZI042mI SZI042mI

Group 1 : IOO Optimization Codes: No Buffer Biasing

Group 1 shows the IOO optimization codes used when no buffer biasing was performed. These codes apply to the following message numbers:

- SZI01xmI: All LSR optimizations.

- SZI020mI: Normal NSR optimizations that did not use one of the BIAS options.

- SZI030mI: Forced NSR optimizations that did not use one of the BIAS options.

Optimization Code	Meaning
A	The data set was optimized using NSR by use of a hard-coded BUFSP operand in the rules table.
B	The data set was optimized using NSR by use of a BUFNI/BUFND operand in the rules table.
C	An attempt to optimize the data set using NSR was aborted because the optimization values obtained by IOO matched those currently in the ACB.

Optimization Code	Meaning
L	LSR optimization was used. The Catalog Service Routine was not able to find a highest-used-rba value for neither the data component nor the index component. IOO has attempted to allocate an equal number of buffers for the data and index components.
M	LSR optimization was used. The Catalog Service Routine was able to find a highest-used-rba value for the data component, but was not able to find one for the index component. IOO has attempted to optimize the number of data buffers optimize the number of data buffers (basing the (basing the optimization upon data obtained from the catalog) while ensuring a minimum of 6 index buffers.
N	LSR optimization was used. The Catalog Service Routine was able to find a highest-used-rba value for the index component, but was not able to find one for the data component. IOO has attempted to optimize the number of index buffers (basing the optimization upon data obtained from the catalog) while ensuring a minimum of 6 data buffers.
P	LSR optimization was used. IBM has forced the current OPEN to share resources with a previous OPEN.
R	LSR optimization was accomplished through use of a user-coded BLDVRP macro.
T	LSR optimization was used. The Catalog Service Routine was able to find a highest-used-rba value for both the index and data components. IOO has attempted to optimize the number of data and index buffers, basing the optimization upon data obtained from the catalog.
U	All available shrpool numbers were used, and, due to the coding of FLAGS=REUSESHR in the selected rules table entry, the data set was optimized using LSR by restoring the original shrpool number into the ACB.
V	The optimization attempt has been bypassed due to the cluster being SHROPT4 and SHROPT4=NO was coded in the global table.
W	IBM OPEN processing has forced the reusing of a previous shrpool number.

Group 2 : IOO Optimization Codes: Buffer Biasing for Dynamic Access

Group 2 shows the IOO optimization codes used when buffer biasing for dynamic access was performed. These codes apply to the following message numbers:

- SZI021*m*I: Normal NSR optimizations using BIAS=DYNAMIC.

- SZI031*m*I: Forced NSR optimizations using BIAS=DYNAMIC.

Optimization Code	Meaning
For the following 4 optimization codes, BUFNI has been set to the optimal value.	
E	BUFND has been set to the optimal value.
F	BUFND has been set to the minimum value.
G	BUFND has been set to the available value.
H	BUFND has been set to a forced value.
For the following 4 optimization codes, BUFNI has been set to the minumum value.	
I	BUFND has been set to the optimal value.
J	BUFND has been set to the minimum value.
K	BUFND has been set to the available value.
L	BUFND has been set to a forced value.
For the following 4 optimization codes, BUFNI has been set to the available value.	
M	BUFND has been set to the optimal value.
N	BUFND has been set to the minimum value.
P	BUFND has been set to the available value.
Q	BUFND has been set to a forced value.
For the following 4 optimization codes, BUFNI has been set to a forced value.	
R	BUFND has been set to the optimal value.
S	BUFND has been set to the minimum value.
T	BUFND has been set to the available value.
U	BUFND has been set to a forced value.

NOTES

- Optimal: The optimal number of buffers was allocated for the particular component.

- Minimum: The minimum number of buffers was allocated for the particular component.

- Available: The optimal number of buffers could not be allocated for the particular component. All available buffers have been allocated instead.

- Forced: IOO was unable to determine the maximum allocatable buffer count for the particular component. In the interest of performance enhancement, the optimal buffer count has been allocated.

Group 3 : IOO Optimization Codes: Buffer Biasing for Sequential Access

Group 3 shows the IOO optimization codes used when buffer biasing for sequential access was performed. These codes apply to the following message numbers:

- SZI022*m*I : Normal NSR optimizations using BIAS=SEQ.

- SZI032*m*I : Forced NSR optimizations using BIAS=SEQ.

Optimization Code	Meaning
A	BUFND has been set to the optimal value.
B	BUFND has been set to the minimum value.
C	BUFND has been set to the available value.
D	BUFND has been set to a forced value.

BUFNI has been set as follows:

- The minimum BUFNI will be 5.

- BUFNI will be greater than or equal to the ACB STRNO value (Plus 1 for CI/CA splits). The maximum BUFNI will be 255.

NOTES

- Optimal: The optimal number of buffers was allocated for the particular component.

- Minimum: The minimum number of buffers was allocated for the particular component.

- Available: The optimal number of buffers could not be allocated for the particular component. All available buffers have been allocated instead.

- Forced: IOO was unable to determine the maximum allocatable buffer count for the particular component. In the interest of performance enhancement, the optimal buffer count has been allocated.

Group 4 : IOO Optimization Codes: Buffer Biasing for Direct Access

Group 4 shows the IOO optimization codes used when buffer biasing for direct access was performed. These codes apply to the following message numbers:

- SZI023*m*I : Normal NSR optimizations using BIAS=DIR.

- SZI033*m*I : Forced NSR optimizations using BIAS=DIR.

Optimization Code	Meaning
A	BUFNI has been set to the optimal value.
B	BUFNI has been set to the minimum value.

Optimization Code	Meaning
C	BUFNI has been set to the available value.
D	BUFNI has been set to a forced value.

BUFND has been set as follows:

- The minimum BUFND will be 5.

- BUFND will be greater than or equal to the ACB STRNO value (Plus 1 for CI/CA splits).

- The maximum BUFND will be 255.

NOTES

- Optimal: The optimal number of buffers was allocated for the particular component.

- Minimum: The minimum number of buffers was allocated for the particular component.

- Available: The optimal number of buffers could not be allocated for the particular component. All available buffers have been allocated instead.

- Forced: IOO was unable to determine the maximum allocatable buffer count for the particular component. In the interest of performance enhancement, the optimal buffer count has been allocated.

Appendix E
IOO Abend Codes

StarTool IOO issues the following abend codes:

Abend Code	Description
U0100	The LOAD of a required IOO module into (E)CSA failed. This is an internal error which should be reported to Serena Technical Support.
U0101	A large program object extension exists when it should not. This is an internal error which should be reported to Serena Technical Support.
U0102	A required IOO load module could not be found. This abend will be preceded by SZIST57E and one or more SZIST59E messages. The cause is most likely to be incorrect specification of one of the following: ■ The Global Table suffix. Check the OPTIONS value passed to the IOO JCL procedure. ■ The suffix for either the system rules table or the device table. Check SYSUFX and DVSUFX in the Global Table source. ■ The user exit name in the Global Table. See EXITNM in the Global Table source.
U500	Issued by program ULTI200 as part of the IOO VSAM record level interface. The maximum size of 256kb for the IOO RST (RPL Support Table) has been exceeded. IOO's VSAM record level interface will abend with a U500 abend code. See message SZI2412.
U501	Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DBM (Dynamic Buffer Management) support attempt to close and reopen a data set in order to request that buffers be reallocated from below-the-line storage. The data set was successfully closed, but the reopen of the data set failed. IOO's VSAM record level interface will abend with a U501 abend code. Force the use of one of the VSMNSR24 rule either via DCF or JCL. See message SZI2413.
U502	Issued by program ULTI200 as part of the IOO VSAM record level interface. The common service routine used by IOO's VSAM record level interface for closing a data set and reopening it using NSR (Non-Shared Resources) has detected a failure in the reopening of the data set. IOO's VSAM record level interface will abend with a U502 abend code. Force the use of one of the VSMNSR24 rule either via DCF or JCL. See message SZI2414.

Abend Code	Description
U503	Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO attempted to provide LSR optimization but was unable to because of a failure in DLP (Dynamic LSR Positioning) support. IOO then attempted to close the data set and reopen it using NSR but was unable to do so. IOO's VSAM record level interface will abend with a U503 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. See message SZI2408.
U504	Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support attempted to close a data set and reopen it using NSR (instead of LSR). The data set was opened successfully, but IOO was unable to reposition the data set to where it was prior to requesting the close and reopen. IOO's VSAM record level interface will abend with a U504 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. See message SZI2409.
U601	Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support detected that continued use of LSR could cause data integrity issues and attempted to close and reopen that data set using NSR. The data set was successfully closed but was not allowed to use NSR when it was reopened. IOO's VSAM record level interface will abend with a U601 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. See message SZI2410.
U602	Issued by program ULTI200 as part of the IOO VSAM record level interface. IOO's DMS (Dynamic Mode Selection) support detected that continued use of LSR could cause data integrity issues and attempted to close and reopen that data set using NSR. The data set was successfully closed but was forced to use LSR when it was reopened. IOO's VSAM record level interface will abend with a U602 abend code. Force the use of one of the NSR optimization rules (VSMNSR24 or VSMNSR31) either via DCF or JCL. See message SZI2411.

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