Oracle® Database Logdump Reference for Oracle GoldenGate



ORACLE

Oracle Database Logdump Reference for Oracle GoldenGate, 21c (21.1.0)

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Preface

This guide contains guidelines for using the Oracle GoldenGate Logdump utility. This utility is mainly used by Oracle Support to resolve an Oracle GoldenGate support case. Experienced systems or database administrators who are familiar with the internal structures of Oracle GoldenGate trail records can use Logdump to troubleshoot and resolve errors or other problems encountered during processing.

- Audience
- Documentation Accessibility
- Related Information
- Conventions

Audience

This guide is intended for the person or persons who are responsible for operating Oracle GoldenGate and maintaining its performance. This audience typically includes, but is not limited to, systems administrators and database administrators. It also is intended to help Oracle support technicians and other technical representatives when working with Oracle GoldenGate customers.

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Related Information

The Oracle GoldenGate Product Documentation Libraries are found at:

https://docs.us.oracle.com/en/middleware/goldengate/core/21.1/

The Oracle GoldenGate related product documentation libraries are found at:

https://docs.oracle.com/en/middleware/goldengate/index.html

For additional information on Oracle GoldenGate, refer to:

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https://www.oracle.com/middleware/technologies/goldengate.html

https://www.oracle.com/database/technologies/high-availability/oracle-database-maa-best-practices.html

For licensing information, refer to Licensing Information in the Oracle GoldenGate Licensing Information guide.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, such as "From the File menu, select Save ." Boldface also is used for terms defined in text or in the glossary.
italic italic	Italic type indicates placeholder variables for which you supply particular values, such as in the parameter statement: TABLE table_name. Italic type also is used for book titles and emphasis.
monospace MONOSPACE	Monospace type indicates code components such as user exits and scripts; the names of files and database objects; URL paths; and input and output text that appears on the screen. Uppercase monospace type is generally used to represent the names of Oracle GoldenGate parameters, commands, and user-configurable functions, as well as SQL commands and keywords.
UPPERCASE	Uppercase in the regular text font indicates the name of a utility unless the name is intended to be a specific case.
{}	Braces within syntax enclose a set of options that are separated by pipe symbols, one of which must be selected, for example: {option1 option2 option3}.
[]	Brackets within syntax indicate an optional element. For example in this syntax, the SAVE clause is optional: CLEANUP REPLICAT group_name [, SAVE count]. Multiple options within an optional element are separated by a pipe symbol, for example: [option1 option2].



1 Using the Logdump Utility

Learn how to use the Logdump utility. This utility enables you to open files, control the display, navigate through a file, and search, filter, view, and save data that's stored in a trail or extract file.

Important:

To avoid any adverse effects on the data or checkpoints in your trails, use Logdump only with guidance from an Oracle support analyst or an experienced Oracle GoldenGate user.

This chapter includes the following sections:

- Getting Started with Logdump
- Viewing the First Record
- Executing Basic Logdump Tasks
- Evaluating Transaction Size
- Maintaining Command History
- Viewing Logdump Command Information and Syntax
- Getting Started with Logdump
- Viewing the First Record
- Executing Basic Logdump Tasks
- Evaluating Transaction Size
- Maintaining Command History
- Viewing Logdump Command Information and Syntax

1.1 Getting Started with Logdump

This section introduces you to basic Logdump commands that enable you to open files, control the display, navigate through a file, and filter for specific information, among other basic tasks. It also illustrates and explains the components of a record.

1.3 Executing Basic Logdump Tasks

The following are some basic tasks that can be performed with Logdump. For detailed information about the commands shown and other available options, see the alphabetical reference in Logdump Commands.

Finding the Next Good Record Header



- Finding the Beginning, Middle, and End of a Transaction
- Scanning for the End of a Transaction
- Going to a Specific RBA in the File
- Filtering Based on a Table or Data File Name
- Removing the Current Filter Criteria
- Filtering on Multiple Conditions
- Count the Records in a Trail File
- Saving Records to a New Trail File
- Closing the Current File and Opening the Next One in the Trail
- Keeping a Log of Your Session
- Seeing the Current Logdump Environment
- Getting Online Command Help
- To Exit Logdump

1.3.1 Finding the Next Good Record Header

To find the next good record header, enter the following command:

Logdump 8> SCANFORHEADER

Alternatively, you can simply enter SFH.

1.3.2 Finding the Beginning, Middle, and End of a Transaction

To find the beginning, middle, and end of a transaction, complete the following steps:

1. Show headers and detail.

Logdump 9> GHDR ON Logdump 10> DETAIL ON

2. Go to the next record.

Logdump 11> N

3. View the TransInd field in the record header. The following table explains where the record is in relation to the transaction.

Transactio	n Indicator	Description
TransInd	: . (x00)	First statement in transaction
TransInd	: . (x01)	Statement in middle of transaction
TransInd	: (x02)	Last statement in transaction
TransInd	: . (x03)	Sole statement in transaction



4. Move through subsequent records by pressing N, and refer to the TransInd field to determine where each one is within the transaction. When TransInd is either x02 or x03, the TransInd of the next record should be x00, starting a new transaction.

1.3.3 Scanning for the End of a Transaction

To scan for the end of a transaction, enter the following command:

Logdump 20> SCANFORENDTRANS

Alternatively, you can simply enter SFET.

The record shown will be the first one in the next transaction. To confirm, the TransInd field should be x00.

1.3.4 Going to a Specific RBA in the File

To go to a specific RBA in the file, you can do either of the following:

• To go to an RBA anywhere in the file:

Logdump 35> POS rba Logdump 36> N

This displays the record located at that RBA.

• To go to the first record in the file:

Logdump 37> POS FIRST

Alternatively, you can enter the following command:

Logdump 37> POS 0

1.3.5 Filtering Based on a Table or Data File Name

To filter out everything except records containing a specific NonStop data file name, enter the following command:

Logdump 60> FILTER INCLUDE FILENAME \$volume.subvolume.file

To filter out everything except records containing a specific table name:

• On a NonStop system:

Logdump 60> FILTER INCLUDE ANSINAME catalog.schema.table

On a Windows or UNIX system:

Logdump 60> FILTER INCLUDE FILENAME [container | catalog] schema.table

Now, when you use the N command, you will only see records that satisfy this filter. Conversely, to filter out records containing a specific table or file name, but show everything else, use the EXCLUDE option instead of INCLUDE.

1.3.6 Removing the Current Filter Criteria

To remove the current filter criteria, enter the following command:



1.3.7 Filtering on Multiple Conditions

To filter on multiple conditions, enter one of the following commands:

- Logdump 60> FILTER INCLUDE FILENAME \$volume.subvolume...file..; FILTER RECTYPE record_type; FILTER MATCH ALL
- Logdump 60> FILTER INCLUDE ANSINAME catalog.schema.table; FILTER RECTYPE record_type; FILTER MATCH ALL
- Logdump 65> FILTER INCLUDE FILENAME schema.table; FILTER RECTYPE record_type; FILTER MATCH ALL

Use MATCH ANY OF MATCH ALL depending on whether you want the search to match any or all of the filter conditions, respectively, when multiple conditions are specified. The preceding example filters on a name and record type, typically an operation type such as INSERT.

1.3.8 Count the Records in a Trail File

The following command shows a count summary followed by counts for each table or data file:

Logdump 67> COUNT

1.3.9 Saving Records to a New Trail File

To save a subset of records, enter the following command:

Logdump 68> SAVE file n RECORDS

1.3.10 Closing the Current File and Opening the Next One in the Trail

To close the current file and open the next one in the trail, enter the following command:

Logdump 69> NEXTTRAIL

1.3.11 Keeping a Log of Your Session

To start logging, enter the following command:

Logdump 70> LOG TO filename.txt

To write text to the log:

Logdump 71> WRITELOG "text"

To stop logging:

Logdump 72> LOG STOP

1.3.12 Seeing the Current Logdump Environment

To see the current Logdump environment, enter the following command:



Logdump 73> ENV

This shows which features are enabled, such as filtering and header views, and it shows environment information such as the current trail and position.

1.3.13 Getting Online Command Help

To get online command help, enter the following command:

Logdump 74> HELP

1.3.14 To Exit Logdump

To exit Logdump, enter either of the following commands:

- Logdump 100> EXIT
- Logdump 100> QUIT

1.4 Evaluating Transaction Size

Use Logdump's TRANSHIST command in conjunction with other Logdump commands to determine whether or not your applications generate large transactions and to identify their relative size. TRANSHIST causes Logdump to track the size of transactions contained in a trail file or extract file in an internal history table. The transactions are ranked in descending order of size, in bytes. When the history table is full, the smallest transaction is removed to allow a larger transaction to be added to the list.

To use statistics generated by TRANSHIST, issue the following series of commands in Logdump:

1. Use TRANSHIST to set the size of the history table that tracks transaction size. The maximum size is 200 bytes. A value of 0 turns off the tracking.

TRANSHIST n

2. Use either the TRANSRECLIMIT OR TRANSBYTELIMIT command to set a lower boundary for what is considered a normal sized transaction. These commands prevent normal-sized transactions from being tracked. Eliminating normal-sized transactions reduces the amount of data that must be reviewed.

{TRANSBYTELIMIT *n* bytes | TRANSRECLIMIT *n* records}

3. Use Logdump's COUNT command to display the statistics on transaction size, which appear at the end of the output and look like the following excerpt:

```
Transactions with at least 100 records or 100000 bytes

2011/02/01 09:31:24.000.000 00:00:00.000, Seq 0, RBA 13101

Bytes/Trans .... 1168167

Records/Trans .... 1

2011/02/01 09:31:35.000.000 00:00:11.000, Seq 0, RBA 1205292

Bytes/Trans .... 1168167

Records/Trans .... 1001

Files/Trans .... 1001

Files/Trans .... 1
```

Logdump scans the file(s) and reports the information.



4. Use Logdump's POSITION RBA command to go to each RBA listed in the COUNT output to find out the name of the table that generated the transaction. You can group these tables into their own processing group so that they do not affect processing of other tables that generate normal sized transactions.

1.5 Maintaining Command History

On Windows and UNIX systems, command history is stored in a file named logdump.hst. On NonStop systems, command history is stored in a file named logduhst. The file is created in the home location of the user who first started Logdump.

When Logdump starts up, it looks for the history file in one of the following locations, depending on the platform:

- The USERPROFILE environment variable.
- The \$HOME environment variable.
- The default \$vol.subvol.

If the file exists, Logdump loads the command history into a buffer. The command history buffer holds 400 commands. Upon termination of the Logdump session, the session's history is appended to the file.

1.6 Viewing Logdump Command Information and Syntax

To learn more about Logdump commands, see the alphabetical reference documentation in Logdump Commands.

1.2 Viewing the First Record

The steps in this section explain how to set up the Logdump environment and start viewing records.

- Running Logdump
- Setting Up the View
- Opening a Trail File

1.2.1 Running Logdump

Run the logdump program from the installation location. Logdump command lines are numbered so that you can use edit and history commands.

1.2.2 Setting Up the View

The following commands set up a Logdump environment that shows the information most commonly used when analyzing trail records.

1. To view the record header with the data:

Logdump 1> GHDR ON

The record header contains information about the transaction.



2. To add column information:

Logdump 2> DETAIL ON

Column information includes the number and length in hex and ASCII.

3. To add hex and ASCII data values to the column information:

Logdump 3> DETAIL DATA

4. To view user tokens:

Logdump 4> USERTOKEN ON

User tokens are custom user-defined information that is specified in a TABLE or FILE mapping statement and stored in the trail file for specific purposes.

5. To view automatically generated tokens:

Logdump 4> GGSTOKEN ON

automatically generated tokes include the transaction ID (XID), the row id for DML operations, the fetching status (if applicable), and tag value.

6. To control how much record data is displayed:

Logdump 5> RECLEN length

1.2.3 Opening a Trail File

To open a trail file, complete the following steps:

1. Open a file with the following command:

Logdump 6> OPEN file_name

Where:

file_name is either the relative name or fully qualified name of the file, including the file sequence number. For example:

open /home/ggs/dirdat/jd000000
open \$data01.glogggl.aa000000

2. To go to the first record and then move through records in sequence:

Logdump 7> NEXT

Alternatively, you can simply enter N.



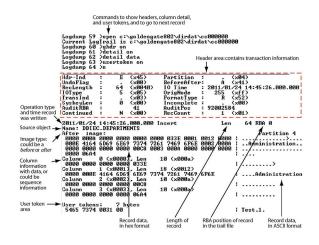
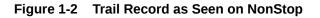
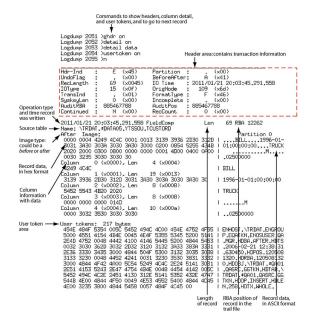


Figure 1-1 Logdump Record as Seen on a Windows System







2 Logdump Commands

Here you see an alphabetical reference for syntax and usage of the Logdump utility commands.

For Logdump usage instructions, see Using the Logdump Utility .

- Logdump Command Summary
- ARGETNONDATACHANGES | ARSTOPNONDATACHANGES
- ASCIIDATA | EBCDICDATA
- ASCIIDUMP | EBCDICDUMP
- ASCIIHEADER | EBCDICHEADER
- BEGIN
- BULKIOSTATS
- CALCTLFKEY
- CD
- COMPUTETIMESTAMP
- COUNT
- CTIME
- DATAFILE
- DEBUG
- DECRYPT
- DETAIL
- DUMP
- ENCRYPT
- ENV
- ESBLOCK
- EXIT
- FC
- FILEHEADER
- FILES
- FILTER
- FLOAT
- GGSAUDITREAD
- GGSTOKEN
- GGSTOKEN



- GHDR
- HASHCLEAR
- HASHSTATS
- HEADERTOKEN
- HELP
- HISTORY
- INTERPRETINTERVAL
- INTERPRETTIMESTAMP
- LOG
- Metadata ddlformat
- Metadata defgenformat
- Metadata detail
- Metadata sqlformat
- NEXT
- NEXTTRAIL
- NOTIFY
- OBEY
- OPEN
- POSITION
- RECLEN
- SAVE
- SCANFORENDTRANS
- SCANFORHEADER
- SCANFORMETADATA
- SCANFORRBA
- SCANFORTIME
- SCANFORTYPE
- SCANSCROLLING
- SHOW
- SKIP
- TIME
- TIMEOFFSET
- TMFBEFOREIMAGE
- TMFBEFOREIMAGE
- TMFGETRECADDR | NOTMFGETRECADDR
- TMFIGNORERECCOUNT
- TRAILFORMAT



- TRANSBYTELIMIT
- TRANSHIST
- TRANSRECLIMIT
- USERTOKEN
- VOLUME
- WRITELOG
- Х

2.1 Logdump Command Summary

The following are category summaries of the Logdump commands.

Commands	Description
CD	Sets the default directory, volume or subvolume.
DATAFILE	Opens an Enscribe file from within Logdump.
GGSAUDITREAD	Reads the TMF audit trail.
LOG	Writes a session log.
NEXTTRAIL	Closes the current file and opens the next file in the trail sequence.
OPEN	Opens a trail file or extract file.
POSITION	Sets the read position in the file.
SAVE	Writes record data to another file.
WRITELOG	Writes text to a session log.
VOLUME	Sets the default directory, volume or subvolume.

Table 2-1 Working with Files

Table 2-2 Viewing Information

Command	Description	
BULKIOSTATS	Displays bulk I/O statistics.	
COUNT	Displays record count information.	
FILES	Displays file names in the current directory or subvolume.	
ENV	Displays current Logdump settings.	
FILEHEADER	Displays file header information.	
HASHCLEAR	Clears the memory allocated to hash statistics generated when HASHSTATS is enabled.	
HASHSTATS	Enables or disables the display of statistics about file name when a COUNT DETAIL command is issued.	
NOTIFY	Displays the number of records scanned, the trail position, and the record timestamp at specified intervals when using COUNT and records are being suppressed from display through filtering options.	



Command	Description
SHOW	Displays internal information such as the current Logdump environment, a list of record types, and current filter settings.
TIME	Displays the current time in local and GMT formats.

Table 2-2	(Cont.)	Viewing	Information
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Table 2-3Selecting Data and Records

Command	Description
BEGIN	Searches through a TMF or trail to locate a record at or near the specified time.
ARGETNONDATACHANGES ARSTOPNONDATACHANGES	Includes or excludes records that did not result in a change to the database.
DUMP	Displays the specified number of bytes of data from the current position in the file.
FILTER	Filters the display of records.
NEXT	Displays the next record(s) in the file.
SCANFORENDTRANS	Finds a record that is the last record of, or the only record in, a transaction, and then displays the first record of the next transaction.
SCANFORHEADER	Finds the start of the next record header.
SCANFORMETADATA	Finds a specific metadata record.
SCANFORRBA	Finds a specific relative byte address.
SCANFORTIME	Finds the next record with a specific timestamp.
SCANFORTYPE	Finds the next record of a specific type.
SKIP	Skips a specified number of records.
TMFBEFOREIMAGE	Sets the TMFARLIB to fetch the before image of a record and display it with the after image.

Table 2-4 Caking Conversions

Command	Description
CALCTLFKEY	Calculates a unique key for TLF/PTLF records in ACI's BASE24 application.
COMPUTETIMESTAMP	Converts a datetime string to a Julian timestamp.
CTIME	Converts a C timestamp to an ASCII timestamp.
DECRYPT	Decrypts data before displaying it in Logdump.
ENCRYPT	Encrypts file data.
ESBLOCK	Displays NonStop entry-sequenced syskeys as a block number and record number.
FLOAT	Displays a number or hex string as a hex representation and a floating point number.



Table 2-4 (Cont.) Caking Conversions

Command	Description
INTERPRETINTERVAL	Displays a 64-bit Julian interval as <i>dd-hh:mm:ss:ms:us</i> .
INTERPRETTIMESTAMP	Displays a 64-bit Julian timestamp in ASCII format.

Table 2-5 Controlling the Logdump Environment

Command	Description
ASCIIDATA EBCDICDATA	Controls whether data is displayed in ASCII or EBCDIC format on an IBM mainframe.
ASCIIDUMP EBCDICDUMP	Sets the character set on an IBM mainframe.
ASCIIHEADER EBCDICHEADER	Controls whether the table name is displayed in ASCII or EBCDIC format on an IBM mainframe.
DETAIL	Controls the display of detailed record information.
GGSTOKEN	Controls the display of token data.
GGSTOKEN	Controls the display of automatically generated token data.
GHDR	Controls the display of header information.
HEADERTOKEN	Controls the display of header token indicators.
Metadata ddlformat	Displays the TDR columns in Nonstop DDL format.
Metadata defgenformat	Displays the columns in a TDR in the format of a GG def from a definition file.
Metadata detail	Displays tokens and values that make up a metadata record.
Metadata sqlformat	Displays the columns in a TDR in the format of a SQL table create.
RECLEN	Sets the maximum data output length.
SCANSCROLLING	Controls whether a count notification displays on one line or multiple lines.
TIMEOFFSET	Sets the time offset from GMT.
TMFBEFOREIMAGE	Controls whether or not the before image is displayed for update operations from TMF audit.
TMFGETRECADDR NOTMFGETRECADDR	Controls Logdump's ability to call the ARGETRECADDR() function of TMFARLIB.
TMFIGNORERECCOUNT	Sets the number of records that the TMFARLIB can ignore before returning a CURRENTPOSITION record.
TRAILFORMAT	Sets the trail format to the old version (pre- 6.0) or the new version.
TRANSBYTELIMIT	Sets a byte-count threshold for what is defined as a normal-sized transaction.
TRANSHIST	Sets the size of the transaction history table that is used for tracking transaction size.
TRANSRECLIMIT	Sets a record-count threshold for what is defined as a normal-sized transaction.



Table 2-5 (Cont.) Controlling the Logdump Environment

Command	Description
USERTOKEN	Controls the display of user token data.

Table 2-6 Miscellaneous Commands

Command	Description
DEBUG	Turns on Logdump debugging.
EXIT	Exits Logdump.
FC	Edits a previous command.
HELP	Shows syntax for Logdump commands.
HISTORY	Lists previously issued commands.
OBEY	Executes a series of commands stored in a file.
X	Executes a program from within Logdump.

2.2 ARGETNONDATACHANGES | ARSTOPNONDATACHANGES

Use ARGETNONDATACHANGES and ARSTOPNONDATACHANGES when reading TMF trails to direct TMFARLIB to include or exclude records that did not result in a change to the database.

Default

ARGETNONDATACHANGES

Syntax

ARGETNONDATACHANGES | ARSTOPNONDATACHANGES

ARGETNONDATACHANGES Includes non-change records.

ARSTOPNONDATACHANGES Suppresses non-change records.

2.3 ASCIIDATA | EBCDICDATA

Use ASCIIDATA or EBCDICDATA to control whether record data is displayed in ASCII or EBCDIC format on an IBM mainframe. You may need to use the ASCIIDUMP command to set the character set first.

Default

ASCIIDATA ON (same as EBCDICDATA OFF)



Syntax

ASCIIDATA {ON | OFF} | EBCDICDATA {ON | OFF}

2.4 ASCIIDUMP | EBCDICDUMP

Use ASCIIDUMP or EBCDICDUMP to set the character set for the output of the DUMP command on an IBM mainframe. The hex part of the dump display is not affected by this command.

Default

ASCIIDUMP ON (same as EBCDICDUMP OFF)

Syntax

ASCIIDUMP {ON | OFF} | EBCDICDUMP {ON | OFF}

2.5 ASCIIHEADER | EBCDICHEADER

Use ASCIIHEADER or EBCDICHEADER to control whether or not the table name in the record header is in ASCII or EBCDIC format on an IBM mainframe. You may need to use the ASCIIDUMP command to set the character set first.

Default

None.

Syntax

ASCIIHEADER {ON | OFF} | EBCDICHEADER {ON | OFF}

2.6 BEGIN

Use BEGIN to do a binary search through a TMF or trail to locate a record at or near the specified time.

Default

None

Syntax

BEGIN timestamp

timestamp

The timestamp for which to search.

2.7 BULKIOSTATS

Use BULKIOSTATS to display statistics for bulk I/O records, including the number of physical and logical reads and current and average read times.



Default

None

Syntax

BULKIOSTATS

2.8 CALCTLFKEY

Use CALCTLFKEY to work around the <code>@GETENV</code> ("TLFKEY", SYSKEY "*unique_key*)" function when it generates duplicate keys. The TLFKEY option associates a unique key with TLF/PTLF records in ACI's BASE24 application. CALCTLFKEY performs the calculation and displays the value for each record.

Without an argument, CALCTLFKEY displays whether this feature is enabled or disabled.

Default

OFF

Syntax

```
Calctlfkey {on | off}
```

2.9 CD

Use ${\tt CD}$ to set the default directory, volume, or subvolume. An alias for this command is ${\tt VOLUME}.$

Default

None

Syntax

```
CD {directory | volume | subvolume}
```

2.10 COMPUTETIMESTAMP

Use **COMPUTETIMESTAMP** to convert a datetime string to Julian format.

Default

None

Syntax

COMPUTETIMESTAMP string

string

A datetime string in the format of:

```
[[yy]yy-mm-dd] [hh[:mm][:ss]]
```



Example

COMPUTETIMESTAMP 2005-01-01 12:00:00

This example returns the following:

2005-01-01 12:00:00 is JulianTimestamp 21197134080000000

2.11 COUNT

Use COUNT to produce a record count summary and other information related to the amount of data in the file. The basic output, without options, shows the following:

- The RBA where the count began
- The total data bytes and average bytes per record
- Information about the operation types
- Information about the transactions

When the DETAIL command is issued prior to issuing COUNT, the information includes a count for each table or data file. COUNT options allow you to show table detail without using the DETAIL command first, set a start and end time for the count, filter the count for a table, data file, trail file, or extract file, and specify a time interval for counts. You can use the DETAIL OFF command to turn off the collection of this detailed information.

For arguments that take a time string, use the following format:

[[yy]yy-mm-dd] [hh[:mm][:ss]]

Default

Produce a count summary of all records.

Syntax

COUNT

- [, DETAIL]
- [, END[TIME] time_string]
- [, INT[ERVAL] minutes]
- [, LOG] wildcard]
- [, START[TIME] time_string]

DETAIL

Adds a count for each table or data file that was processed by Extract to the summary count. The information includes the total and average number of data bytes and information about the operations that were performed. This data can also be obtained by using the DETAIL command before issuing COUNT.

END[TIME] time_string

Stops the count with the last record written at the specified time.

INT[ERVAL] minutes

Displays statistics for total bytes, average bytes, and number of each type of operation that occurred within a specified interval of time, in minutes. Then it displays the totals for those statistics.



Chapter 2 COUNT

LOG wildcard

Produces a count for multiple trail or extract files specified with a wildcard.

START[TIME] time_string

Begins the count with the first record written at the specified time.

Examples

Example 1

COUNT START 2011-01-11 12:00:00 , END 2011-01-12 12:00:00

Example 2

COUNT INTERVAL 4

This displays something similar to the following. Individual table or data file count has been truncated due to space constraints. On Windows or UNIX (file names will differ):

Interval from 2011/02/28	11:30:00.0)00 t	:0 20)11/02/28	3 11:34:00	.000,
Recs	3					,
Total Data Bytes	120					
Avg Bytes/Record	40					
Delete	3					
Before Images	3					
LogTrail /home/ggs/dirdat	c/rt000000	has	304	records		
Total Data Bytes	12120					
Avg Bytes/Record	39					
Delete	3					
Insert	300					
FieldComp	1					
Before Images	3					
After Images	301					
Average of 303 Transaction	ons					
Bytes/Trans	88					
Records/Trans	1					
Files/Trans	1					
HR.JOBS					Partition	4
Total Data Bytes	5911					
Avg Bytes/Record	68					
Insert	86					
After Images	86					
HR.REGIONS					Partition	4
Total Data Bytes	512					
Avg Bytes/Record	32					
Insert	16					
After Images	16					
On NonStop:						
LogTrail \GGOA.\$0A01.0AD	AT. LS000000) has	: 296	556 recoi	rds	

LogTrail \GGQA.\$QA01.QA	ADAT.LS000000	has	29656	records
Total Data Bytes	3561022			
Avg Bytes/Record	120			
Delete	50			
Insert	21221			
Update	8379			
GSSPurgedata	6			



Before Images After Images	50 29606	
Average of 3621 Transact	tions	
Bytes/Trans	1376	
Records/Trans	8	
Files/Trans	1	
\GGQA.\$QA01.QAESRC.ACCT	S	Partition 0
Total Data Bytes	286414	
Avg Bytes/Record	142	
Delete	17	
Insert	2000	
Before Images	17	
After Images	2000	
\GGQA.\$QA01.QAESRC.ACCT	N	Partition 0
Total Data Bytes	281700	
Avg Bytes/Record	100	
Delete	17	
Insert	2000	
Update	800	
Before Images	17	
After Images	2800	

Example 3

COUNT LOG ls*

This produces a count for all files whose names begin with LS. (Individual table or data file count has been truncated due to space constraints.) On NonStop:

```
Current LogTrail is \GGQA.$QA01.QADAT.LS000000
Bad record found at RBA 5287, format 5.50)
2A56 623F
                                                   *Vb?
LogTrail \GGQA.$QA01.QADAT.LS000000 has 33 records
LogTrail \GGQA.$QA01.QADAT.LS000000 closed
Current LogTrail is \GGQA.$QA01.QADAT.LS000001
LogTrail \GGQA.$QA01.QADAT.LS000001 has 99 records
LogTrail \GGQA.$QA01.QADAT.LS000001 closed
Current LogTrail is \GGQA.$QA01.QADAT.LS000002
LogTrail \GGQA.QA01.QADAT.LS000002 has 0 records
LogTrail \GGQA.$QA01.QADAT.LS000002 closed
Current LogTrail is \GGQA.$QA01.QADAT.LS000003
LogTrail \GGQA.$QA01.QADAT.LS000003 has 0 records
LogTrail \GGQA.$QA01.QADAT.LS000003 closed
LogTrail \GGQA.$QA01.QADAT.LS* has 132 records
                              9468
Total Data Bytes
```

Avg Bytes/Record	71
Insert	132
After Images	132
Average of 4 Transactions	
Bytes/Trans	3951
Records/Trans	33
Files/Trans	3



Partition 4

QAHRTS.JOBS Total Data Bytes 5220 Avg Bytes/Record 68 Insert 76 After Images 76

On Windows or UNIX (file names will differ):

```
Current LogTrail is c:\goldengate802\dirdat\ls000000
Bad record found at RBA 5287, format 5.50)
2A56 623F
                                                   *Vb?
LogTrail c:\goldengate802\dirdat\ls000000 has 33 records
LogTrail c:\goldengate802\dirdat\ls000000 closed
Current LogTrail is c:\goldengate802\dirdat\ls000001
LogTrail c:\goldengate802\dirdat\ls000001 has 99 records
LogTrail c:\goldengate802\dirdat\ls000001 closed
Current LogTrail is c:\goldengate802\dirdat\ls000002
LogTrail c:\goldengate802\dirdat\ls000002 has 0 records
LogTrail c:\goldengate802\dirdat\ls000002 closed
Current LogTrail is c:\goldengate802\dirdat\ls000003
LogTrail c:\goldengate802\dirdat\ls000003 has 0 records
LogTrail c:\goldengate802\dirdat\ls000003 closed
LogTrail c:\goldengate802\dirdat\ls* has 132 records
```

5220

68 76

76

Total Data Bytes	9468
Avg Bytes/Record	71
Insert	132
After Images	132

Average (of	4	Transactions	
-----------	----	---	--------------	--

Bytes/Trans	3951
Records/Trans	33
Files/Trans	3

Partition 4

Example 4

After Images

HR.JOBS

Insert

COUNT DETAIL

Total Data Bytes

Avg Bytes/Record

This produces something similar to the following: On Windows or UNIX (file names will differ):

LogTrail /home/ggs/dirdat/rt000000 has 304 records				
Total Data Bytes	12120			
Avg Bytes/Record	39			
Delete	3			
Insert	300			
FieldComp	1			
Before Images	3			
After Images	301			
Average of 303 Transaction	ns			
Bytes/Trans	88			
Records/Trans	1			



Files/Trans 1	
GGS.TCUSTMER Partition	4
Total Data Bytes 12120	
Avg Bytes/Record 39	
Delete 3	
Insert 300	
FieldComp 1	
Before Images 3	
After Images 301	
Files 1, Coll 0, Chain 0	
On NonStop:	
LogTrail \GGQA.\$QA01.QADAT.LS000000 has 29656 records	
Total Data Bytes 3561022	
Avg Bytes/Record 120	
Delete 50	
Insert 21221	
Update 8379	
GSSPurgedata 6	
Before Images 50	
After Images 29606	
Average of 3621 Transactions	
Bytes/Trans 1376	
Records/Trans 8	
Files/Trans 1	
\GGQA.\$QA01.QAESRC.ACCTS Partit	ion 0
Total Data Bytes 286414	
Avg Bytes/Record 142	
Delete 17	
Insert 2000	
Before Images 17	
After Images 2000	

2.12 CTIME

Use CTIME to convert a C timestamp to an ASCII timestamp.

Default

None

Syntax

CTIME C_timestamp_string

Example

CTIME 1109823330

This returns the following:

timestamp	=	1109	982333	30	(0x42268f	E62)
localtime	=	Wed	Mar	2	20:15:30	2005
gmtime	=	Thu	Mar	3	04:15:30	2005



2.13 DATAFILE

Use DATAFILE to open an Enscribe data file from within Logdump



Default

None

Syntax

DATAFILE file

Example

DATAFILE \SYSA.\$DATA04.SALES.CUSTMER

2.14 **DEBUG**

Use DEBUG to run debugging for Logdump. Use this command with the guidance of a support analyst.

Default

Disabled

Syntax

DEBUG

2.15 DECRYPT

Use DECRYPT to decrypt data that was encrypted with Oracle GoldenGate trail encryption, so that it can be viewed with Logdump.

Default

OFF

Syntax

DECRYPT {OFF | ON [KEYNAME key_name]}

OFF

No decryption. This is the default.



ON [KEYNAME key_name]

- ON without the KEYNAME clause decrypts data that was encrypted with the ENCRYPTTRAIL parameter without options (256-key byte substitution).
- ON with the KEYNAME clause decrypts data that was encrypted with ENCRYPTTRAIL using an AES algorithm and a KEYNAME clause. For *key_name*, supply the logical name of the encryption key that was used in the KEYNAME *keyname* clause of ENCRYPTTRAIL.

For more information about ENCRYPTTRAIL, see ENCRYPTTRAIL.

 ON also works to decyrpt records that were encrypted using the Oracle wallet and master key methods; similar to how the DECRYPTTRAIL parameter for Replicat or Pump behaves.

Example

DECRYPT ON

Example

DECRYPT ON KEYNAME mykey

2.16 DETAIL

Use DETAIL to include additional information in the Logdump output. By default, Logdump only shows the hex and ASCII representation of the record.

Without options, DETAIL displays the status of record detail (ON or OFF). Options do the following:

- DETAIL ON displays a list of columns that includes the column ID, length, and value in hex and ASCII.
- DATA adds hex and ASCII data values to the column list.
- DETAIL OFF turns off detailed display; OFF is the default.

DETAIL can be shortened to DET.

Default

Display a column list

Syntax

```
DETAIL {ON | OFF | DATA}
```

ON

Shows detailed column information.

OFF

Suppresses detailed column information.

DATA

Adds the hex and ASCII data values to the column information.



2.17 DUMP

Use DUMP to display a HEX/ASCII or HEX/EBCDIC dump of the specified number of bytes from the open trail or extract file, starting at the current RBA.

 $\tt DUMP$ does not work when reading TMF audit trails, because I/O to the TMF trails is done by TMFARLIB.

Default

256

Syntax

DUMP bytes

bytes

The number of bytes forward to display. Valid values are from 1 through 28672.

Example

DUMP 300

This produces something similar to the following example. Note: This example shows only a few lines of the record.

2.18 ENCRYPT

Use ENCRYPT to encrypt text supplied as an argument. The encryption method is 256-key byte substitution. The results are printed to screen.

Default

None

Syntax

ENCRYPT text

Example

ENCRYPT 123456789

This produces the following:

```
Before

3132 3334 3536 3738 39 | 123456789

After

EF2E C1DC E4A7 68B4 14 | ....h.
```



2.19 ENV

Use ENV to show current Logdump settings.

Default

None

Syntax

ENV

Example

The following shows typical ENV settings on Windows and on NonStop.

Windows (UNIX is similar except for file names):

Current Volume LogTrail Trail Format End of File Current Position Next Position Last Modtime Display RecLen Logtrail Filter Show Ghdr Detail Trans History LargeBlock I/O Local System Logtrail Data Logtrail Headers Dump Timeoffset Scan Notify Interval	<pre>: C:\GoldenGate 002 : C:\goldengate002\dirdat\jd000001 : New : 15861 : 0 : 0 : 2013/01/01 13:45:51.000.000 : 140 : On : On : On : On : On : 0 Transactions, Records 100, Bytes 100000 : On, Blocksize 57344 : Little Endian : Big Endian/ASCII : ASCII : ASCII : LOCAL : 10000 records, Scrolling On</pre>
Current Volume LogTrail Trail Format End of File Current Position Next Position Last Modtime Display RecLen Logtrail Filter Detail Trans History LargeBlock I/O Local System Logtrail Data Logtrail Headers Dump Timeoffset Scan Notify Interval	<pre>: \$QU01.QAGGS : \TRGGS.\$QA01.QADAT.LS000000 : New : 5831722 : 0 : 0 : 2013/01/01 12:47:11.686.219 : 140 : 0n : 0n : 0n : 0 Transactions, Records 100, Bytes 100000 : 0n, Blocksize 57344 : Big Endian : Big Endian : Big Endian : Big Endian : ASCII : ASCII : LOCAL : 10000 records, Scrolling On</pre>



2.20 ESBLOCK

Use ESBLOCK for debugging on a NonStop system. It displays an entry-sequenced syskey as a block number and record number.

Default

None

Syntax

ESBLOCK entry_sequenced_RBA

Example

ESBLOCK 4294967302

This produces the following. It shows that the syskey value 4294967302 evaluates to block 1, record 6.

Interpreted	4294967302	0x000000100000060	1.6
64-bit Syskey	4294967302	0x000000100000060	
ES64_TO_RBA64	4102	0x0000000000010060	
RBA64_TO_ES64	4294967302	0x000000100000060	

2.21 EXIT

Use EXIT to exit Logdump and terminate the process. An alias for EXIT is QUIT.

Default

None

Syntax

EXIT

2.22 FC

Use FC to edit a previously issued Logdump command and then execute it again. Previous commands are stored in the memory buffer and can be displayed by issuing the HISTORY command (see "HISTORY"). Issuing FC without arguments executes the most recently used command. By using options, you can retrieve a specific command by specifying its line number or a text substring.

Using the Editor

The FC command displays the command and then opens an editor with a prompt containing a blank line starting with two dots. To edit a command, use the space bar to position the cursor beneath the character where you want the change to begin, and then enter one of the following arguments. Arguments are not case-sensitive and can be combined.



Argument	Description		
i text	Inserts text. For example:		
	Logdump 24> fc 9		
	> count		
	i detail		
	count detail		
r text	Replaces text. For example:		
	Logdump 25> fc 10		
	> timeoffset local		
	rgmt		
	timeoffset gmt		
d	Deletes a character. To delete multiple characters, enter a d for each one. For example:		
	Logdump 26> fc 11		
	> scanforrrbba		
	dd		
	scanforrba		
replacement text	Replaces the displayed command with the text that you enter on a		
repracement_text	one-for-one basis. For example:		
	Logdump 26> fc 10		
	> scanforrba 107		
	127		
	scanforrba 127		

Table 2-7 FC Command Options

To execute the command, press Enter twice, once to exit the editor and once to issue the command. To cancel an edit, type a forward slash (/) twice.

Default

Execute the most recent command again

Syntax

FC [n | -n | string]

n

Returns the specified command line. Each Logdump command line is sequenced, beginning with 1 at the start of the session.

-n

Returns the command that was issued n lines before the current line.

string

Returns the last command that starts with the specified text string.



Examples

Example 1

FC 9

Example 2

FC -3

Example 3

FC sca

2.23 FILEHEADER

Use FILEHEADER to display the contents of the header of the currently open trail file.

The file header is stored as a record at the beginning of a trail file preceding the data records. The information that is stored in the trail header provides enough information about the records to enable an Oracle GoldenGate process to determine whether the records are in a format that the current version of Oracle GoldenGate supports.

The trail header fields are stored as tokens, where the token format remains the same across all versions of Oracle GoldenGate. If a version of Oracle GoldenGate does not support any given token, that token is ignored. Deprecated tokens are assigned a default value to preserve compatibility with previous versions of Oracle GoldenGate.

The current FILEHEADER command applies globally to the Logdump session, until a different FILEHEADER command is issued.

To View the File Header

To view the file header:

1. Position to the beginning of the trail file with the following Logdump command.

pos O

2. Issue the following Logdump command to see the first record of the file, the one that contains the file header.

next

To Retrieve the File Header Tokens

To retrieve file header values as input parameters, use the @GETENV function with the GGFILEHEADER option. See GETENV.

Note:

The Logdump command HEADERTOKEN also shows trail tokens, but it shows a brief summary of each one. FILEHEADER shows actual token values.



Token/subtoken	Data Type	Description
Signature	UINT32	Internal use.
Compatibility	UINT16	The version of the trail. The compatibility level of the Oracle GoldenGate software must be greater than, or equal to, that of the trail file for a process to be able to read the trail file.
		Current valid values are 0 to 5.
CharSet	INT32	The global character set of the trail file, as defined in the parameter file or the default value. For example:
		WCP1252-1
		-3 indicates the system default.
CreationTime	Timestamp	The time that the trail file was created, in local GMT Julian time, INT 64.
URI	String	The universal resource identifier of the process that created the trail file, in the format of:
		<pre>host_name:dir:[:dir][:dir_n]group_name</pre>
		Where:
		 host_name is the name of the server that hosts the process
		• <i>dir</i> is a subdirectory of the Oracle GoldenGate installation path.
		 group_name is the name of the process group that is linked with the process. Example:
		sys1:home:oracle:v9.5:extora
		Syst-nome-ofacte-vy.5-excora
		Shows where the trail was processed and by which process. This includes a history of previous runs.
URIHistory	String array	List of the URIs of processes that wrote to the trail file before the current process.
		 For a primary Extract, this field is empty.
		• For a data pump, this field is URIHistory + URI of the input trail file.
FileName	String	Name of the trail file. Can be absolute or relative path, with forward or backward slash depending on the file system.
MultiPart	Boolean	True/False flag indicating whether the trail file is a single file (such as one created for a batch run) or a sequentially numbered file that is part of a trail for online, continuous processing. If False, the SeqNum subtoken is not valid.
SeqNum	UINT32	The sequence number of the file in the trail, if MultiPart is true. Invalid if multipart is false. The value is the numerical sequence number, without any zero padding.
FileSize	UINT64	Size of the trail file. Value is NULL until the trail file is completed. Non-NULL values are in bytes.
FirstRecordCSN	CSN	The commit sequence number (CSN) of the first record in the trail file.Value is NULL until the trail file is completed.
LastRecordCSN	CSN	The commit sequence number (CSN) of the last record in the trail file.Value is NULL until the trail file is completed.

Table 2-8 Oracle GoldenGate File Header Tokens



Token/subtoken	Data Type	Description
FirstRecordIOTime	Timestamp	The time that the first record in the trail file was written. Value is NULL until the trail file is completed.
LastRecordIOTime	Timestamp	The time that the last record in the trail file was written. Value is NULL until the trail file is completed.
SysName	String	The name of the operating system, for example:
		SunOS
		Linux
		Microsoft Windows
NodeName	String	The name of the machine, for example sys1.
Release	String	The release level of the operating system, for example:
		5.10
		2.6.9-11.ELsmp
Version	String	The version of the operating system, for example:
		s10_69
		#1 SMP Fri Feb 24 16:56:28 EST 2006
Hardware	String	The hardware type of the processor, for example:
		sun4u
		x86_64
		x86
Vendor	UINT16	The name of the database vendor. Some (but not all) examples are:
		DB2 ZOS
		CTREE MSSQL
		MYSQL
		ORACLE
		TERADATA TIMESTEN
		NONSTOP
		ENSCRIBE
Name	String	The name of the database, for example findb.
Instance	String	The name of the database instance, if applicable to the database type, for example ORA1022A.
Charset	INT32	The character set of the database. Currently, the valid value is -1 (unknown). (For some databases, this will be empty.)
MajorVersion	UINT16	The major version of the database.
MinorVersion	UINT16	The minor version of the database.
VerString	String	The maintenance (patch) level of the database.
ClientCharset	INT32	The character set of the database client. Currently, the valid value is -1 (unknown). (For some databases, this will be empty.)
ClientVerString	String	The maintenance (patch) level of the database client. (For some databases, this will be empty.)
	String	The group name that is associated with the process.

Table 2-8 (Cont.) Oracle GoldenGate File Header Tokens

Token/subtoken	Data Type	Description
DataSource	UINT16	 The data source that was read by the process. Can be one of: DS_EXTRACT_TRAILS (source was an Oracle GoldenGate extract file, populated with change data) DS_LOG_TABLE (source was an Oracle GoldenGate log table, used for trigger-based extraction) DS_DATABASE (source was a direct select from database table written to a trail, used for SOURCEISTABLE-driven initial load) DS_TRAN_LOGS (source was the database transaction log) DS_INITIAL_DATA_LOAD (source was Extract; data taken directly from source tables) DS_VAM_EXTRACT (source was a vendor access module) DS VAM TWO PHASE COMMIT (source was a VAM trail)
MajorVersion	UINT16	The major version of the process (xx) .
MinorVersion	UINT16	The minor version of the process (xx.xx).
MaintenanceLevel	UINT16	The maintenance version of the process (xx.xx).
PatchLevel	UINT16	The patch version of the process $(xx.xx.xx)$.
BuildNumber	UINT16	The build number of the process.
VerString	String	The version string of the process. For example: 11.1.1.17A not for production
LastCompletedCSN	CSN	Internal use
LastCompletedXids	Xid	Internal use
LastSCN	CSN	Internal use
LastXid	Xid	Internal use

Table 2-8 (Cont.) Oracle GoldenGate File Header Tokens

Default

OFF

Syntax

```
FILEHEADER {ON | OFF | DETAIL}
```

ON

Enables the display of the file header, showing the main header tokens.

OFF

Disables the display of the file header.

DETAIL

Provides detailed information that includes the sub-tokens.



Examples

Example 1

FILEHEADER ON			
TokenID x46 'F'	Record Header	Info x00 Length	587
TokenID x30 '0'	TrailInfo	Info x00 Length	303
TokenID x31 '1'		Info x00 Length	
TokenID x32 '2'		Info x00 Length	
TokenID x33 '3'		Info x00 Length	
TokenID x34 '4'			
TokenID x5a 'Z'	-		
2011/1/18 13:39			
Name: *FileHeade			
3000 012f 3000	0008 660d 0a71	3100 0006 0001 3200	0/0fq12.
		7834 eac7 7f3f 3400	-
0037 0031 7572	693a 7465 6c6c	7572 6961 6e3a 3a68	.7.1uri:tellurian::h
		3a67 6773 3a67 6773	1
4f72 6163 6c65	3a73 6f75 7263	6536 0000 1700 112e	Oracle:source6
		3030 3030 3700 0005	
0138 0000 0800	01e2 4039 0000	0c00 0000 0000 001d	.8@9
			1
GroupID x30 '0'	TrailInfo	Info x00 Length	303
3000 012f 3000	0008 660d 0a71	3100 0006 0001 3200	0/0fq12.
0008 0000 0016	3300 000c 02f1	7834 eac7 7f3f 3400	3x4?4.
0037 0031 7572	693a 7465 6c6c	7572 6961 6e3a 3a68	.7.1uri:tellurian::h
6f6d 653a 6d63	6361 7267 6172	3a67 6773 3a67 6773	ome:mccargar:ggs:ggs
4f72 6163 6c65	3a73 6f75 7263	6536 0000 1700 112e	Oracle:source6
2f64 6972 6461	742f 6572 3030	3030 3030 3700 0005	/dirdat/er0000007
		0c00 0000 0000 001d	.8@9
a33b 0000 450a	3634 3136 3138	3936 3932 0000 0000	.;E.6416189692
		0000 0000 0000 0000	
		0000 0000 0000 0000	
		0045 0000 0000 0000	E
		0000 0000 0000 0000	
		0000 0000 0000 0000	
		0000 0000 0000 003d	=
	34eb 556a 403c	ff00 0c00 0000 0000	x4.Uj@<
0000 00			
a TD 01 111	N 1 - T C	T C 00 T 1	100
		Info x00 Length	
			1g0Linux1
			.tellurian22.6.
			9-11.ELsmp3).##1 S
			MP Fri May 2018:25:
	2032 3030 3534	0000 0000 0678 3836	30 EDT 20054x86
5£36 34			_64
GroupID v32 121	DatabageInfo	Info x00 Length	88
			2X01ORA1
			022A2ora1022a3.
			456.
			7
2e32 2e30 2e32		5555 5515 500d 5150	.2.0.2.0
			1
GroupID x33 '3'	ProducerInfo	Info x00 Length	85
			3U0EFAR1

3200 0006 0000 3300 0006 0000 3400 0006 0000 3500 | 2....3....4....5. 0006 0000 3600 0006 0017 3700 0023 001d 5665 7273 |6.....7..#..Vers 696f 6e20 5374 2e20 416e 6472 6577 7320 4275 696c | ion St. Andrews Buil 6420 3032 33 | d 023 GroupID x34 '4' ContinunityInfo Info x00 Length 4 3400 0004 4... Example 2 FILEHEADER DETAIL Info x00 Length 587 TokenID x46 'F' Record Header TokenID x30 '0' TrailInfo Info x00 Length 303 TokenID x31 '1' MachineInfo Info x00 Length 103 Info x00 Length TokenID x32 '2' DatabaseInfo 88 TokenID x33 '3' ProducerInfo Info x00 Length 85 TokenID x34 '4' ContinunityInfo Info x00 Length 4 TokenID x5a 'Z' Record Trailer Info x00 Length 587 2011/01/18 13:40:26.034.631 FileHeader Len 587 RBA 0 Name: *FileHeader* 3000 012f 3000 0008 660d 0a71 3100 0006 0001 3200 | 0../0...f..q1....2. 0008 0000 0016 3300 000c 02f1 7834 eac7 7f3f 3400 |3.....x4...?4. 0037 0031 7572 693a 7465 6c6c 7572 6961 6e3a 3a68 | .7.1uri:tellurian::h 6f6d 653a 6d63 6361 7267 6172 3a67 6773 3a67 6773 | ome:mccargar:ggs:ggs 4f72 6163 6c65 3a73 6f75 7263 6536 0000 1700 112e | Oracle:source6..... 2f64 6972 6461 742f 6572 3030 3030 3030 3700 0005 | /dirdat/er0000007... 0138 0000 0800 01e2 4039 0000 0c00 0000 0000 001d | .8.....@9..... GroupID x30 '0' TrailInfo Info x00 Length 303 3000 012f 3000 0008 660d 0a71 3100 0006 0001 3200 | 0.../0...f..q1....2. 0008 0000 0016 3300 000c 02f1 7834 eac7 7f3f 3400 |3.....x4...?4. 0037 0031 7572 693a 7465 6c6c 7572 6961 6e3a 3a68 | .7.1uri:tellurian::h 6f6d 653a 6d63 6361 7267 6172 3a67 6773 3a67 6773 | ome:mccargar:ggs:ggs 4f72 6163 6c65 3a73 6f75 7263 6536 0000 1700 112e | Oracle:source6..... 2f64 6972 6461 742f 6572 3030 3030 3030 3700 0005 | /dirdat/er0000007... 0138 0000 0800 01e2 4039 0000 0c00 0000 0000 001d | .8.....@9..... a33b 0000 450a 3634 3136 3138 3936 3932 0000 0000 | .;.E.6416189692.... 0000 0000 0000 0000 0000 0000 0000 0000 003d |= 0000 0c02 f178 34eb 556a 403c ff00 0c00 0000 0000 |x4.Uj@<..... 0000 00 . . . TokenID x30 '0' Signature Info x00 Length 8 660d 0a71 | f..q TokenID x31 '1' Compatibility Info x00 Length 6 0001 | .. TokenID x32 '2' Charset Info x00 Length 8 0000 0016 TokenID x33 '3' CreationTime Info x00 Length 12 02f1 7834 eac7 7f3f | ...x4....? TokenID x34 '4' URI Info x00 Length 55 0031 7572 693a 7465 6c6c 7572 6961 6e3a 3a68 6f6d | .luri:tellurian::hom 653a 6d63 6361 7267 6172 3a67 6773 3a67 6773 4f72 | e:mccargar:ggs:ggsOr 6163 6c65 3a73 6f75 7263 65 | acle:source TokenID x36 '6' Filename Info x00 Length 23 0011 2e2f 6469 7264 6174 2f65 7230 3030 3030 30 | .../dirdat/er000000

TokenID x37 '7' MultiPart Info x00 Length 5 01 | . TokenID x38 '8' Seqno Info x00 Length 8 0001 e240 ...@ TokenID x39 '9' FileSize Info x00 Length 12 0000 0000 0000 1da3 | .. TokenID x3b ';' LastCSN Info x00 Length 69 0a36 3431 3631 3839 3639 3200 0000 0000 0000 0000 | .6416189692..... 0000 0000 00 TokenID x3a ':' FirstCSN Info xff Length 69 0000 0000 00 | TokenID x3d '=' LastIOTime 12 Info x00 Length 02f1 7834 eb55 6a40 | ..x4.Uj@ TokenID x3c '<' FirstIOTime Info xff Length 12 0000 0000 0000 0000 | GroupID x31 '1' MachineInfo Info x00 Length 103 3100 0067 3000 000b 0005 4c69 6e75 7831 0000 0f00 | 1..q0.....Linux1.... 0974 656c 6c75 7269 616e 3200 0014 000e 322e 362e | .tellurian2....2.6. 392d 3131 2e45 4c73 6d70 3300 0029 0023 2331 2053 | 9-11.ELsmp3..).##1 S 4d50 2046 7269 204d 6179 2032 3020 3138 3a32 353a | MP Fri May 20 18:25: 3330 2045 4454 2032 3030 3534 0000 0c00 0678 3836 | 30 EDT 20054.....x86 5£36 34 _64 TokenID x30 '0' Sysname Info x00 Length 11 0005 4c69 6e75 78 ..Linux TokenID x31 '1' Nodename Info x00 Length 15 0009 7465 6c6c 7572 6961 6e ..tellurian TokenID x32 '2' Release Info x00 Length 20 000e 322e 362e 392d 3131 2e45 4c73 6d70 ..2.6.9-11.ELsmp TokenID x33 '3' Version Info x00 Length 41 0023 2331 2053 4d50 2046 7269 204d 6179 2032 3020 | .##1 SMP Fri May 20 | 18:25:30 EDT 2005 3138 3a32 353a 3330 2045 4454 2032 3030 35 TokenID x34 '4' Hardware Info x00 Length 12 0006 7838 365f 3634 ..x86_64 GroupID x32 '2' DatabaseInfo Info x00 Length 88 3200 0058 3000 0006 0007 3100 000e 0008 4f52 4131 |2..x0....1....ORA1 3032 3241 3200 000e 0008 6f72 6131 3032 3261 3300 |022A2....oral022a3. 0008 ffff ffff 3400 0006 0000 3500 0006 0000 3600 |.....4....5....6. 0006 0000 3700 0008 ffff ffff 3800 0010 000a 3130 |....7.....8....10 2e32 2e30 2e32 2e30 .2.0.2.0 TokenID x30 '0' Vendor Info x00 Length 6 0007 | .. TokenID x31 '1' Name Info x00 14 Length 0008 4f52 4131 3032 3241 ..ORA1022A TokenID x32 '2' Instance Info x00 14 Length 0008 6f72 6131 3032 3261 ..ora1022a TokenID x33 '3' Charset Info x00 Length 8 ffff ffff | TokenID x34 '4' MajorVersion Info x00 Length 6 0000 | . TokenID x35 '5' MinorVersion Info x00 6 Length 0000 | .. TokenID x36 '6' VerString Info x00 Length 6

0000 | .. TokenID x37 '7' ClientCharset Info x00 Length 8 ffff ffff | TokenID x38 '8' ClientVerString Info x00 Length 16 000a 3130 2e32 2e30 2e32 2e30 ..10.2.0.2.0 TokenID x3e '>' DbUniqueName Info x00 Length 17000f 756e 6971 7565 5f64 6174 6162 6173 65 ..unique_database GroupID x33 '3' ProducerInfo Info x00 Length 85 3300 0055 3000 000a 0004 4546 4152 3100 0006 0003 | 3..U0.....EFAR1..... 3200 0006 0000 3300 0006 0000 3400 0006 0000 3500 2.....3.....4.....5. 0006 0000 3600 0006 0017 3700 0023 001d 5665 72736....7..#..Vers 696f 6e20 5374 2e20 416e 6472 6577 7320 4275 696c ion St. Andrews Buil 6420 3032 33 d 023 TokenID x30 '0' Name Info x00 Length 10 0004 4546 4152 ..EFAR TokenID x31 '1' DataSource Info x00 Length 6 0003 . TokenID x32 '2' MajorVersion Info x00 Length 6 0000 . TokenID x33 '3' MinorVersion Info x00 Length 6 0000 . . TokenID x34 '4' MaintLevel Info x00 Length 6 0000 . . TokenID x35 '5' BugFixLevel Info x00 6 Length 0000 . . TokenID x36 '6' BuildNumber Info x00 Length 6 0017 . . TokenID x37 '7' VerString Info x00 Length 35 001d 5665 7273 696f 6e20 5374 2e20 416e 6472 6577 ..Version St.Andrew 7320 4275 696c 6420 3032 33 s Build 023 GroupID x34 '4' ContinunityInfo Info x00 Length 4 3400 0004 4...

2.24 FILES

Use FILES to display summary file information for files on the local system. The default command displays all files in the current directory or subvolume. To constrain the display to specific files, you can supply a wildcarded name.

This command can be shortened to FI. An alias for this command is DIR or FILEINFO.

Default

Show all files in current directory or subvolume

Syntax

FILES [directory | subvolume| volume.subvolume]

directory | *subvolume* | *volume.subvolume* The name of a directory or subvolume or a wildcard for specific files. If any file or directory in the specified path contains spaces, the entire path must be enclosed within double quotation marks.



Example

FILES "c:\goldengate ver802\dirdat\cc*"

Example

FILES \$QAGG.QA01.*

2.25 FILTER

Use FILTER to filter the display based on one or more criteria.

You can string multiple FILTER commands together, separating each one with a semi-colon, as in:

FILTER INCLUDE FILENAME fin.act*; FILTER RECTYPE 5; FILTER MATCH ALL

Or...

FILTER INCLUDE FILENAME \$QA01.QAESRC.ACCTN; FILTER SYSKEY 4294967302; FILTER MATCH ALL

• To avoid unexpected results, avoid stringing filter options together with one FILTER command. For example, the following would be *incorrect*:

FILTER INCLUDE FILENAME fin.act*; RECTYPE 5; MATCH ALL

Or...

FILTER INCLUDE FILENAME \$QA01.QAESRC.ACCTN; SYSKEY 4294967302

Without arguments, FILTER displays the current filter status (ON or OFF) and any filter criteria that are in effect.

Comparison Operators

For options that take comparison operators, the following standard operators may be used. The absence of an operator implies Equal.

Table 2-9 Filter Option Comparison Operators

Operator	Example	
Equal	=	
	EQ	
	==	
Less than	<	
	LT	
Less than or equal	<=	
	LE	
Greater than		
	>	
	GT	



Operator	Example	
Greater than or equal		
	>=	
	GE	
Not equal		
	<>	
	NE	
	!=	

Table 2-9 (Cont.) Filter Option Comparison Operators

Default

Shows current filter settings

Syntax

FILTER [INCLUDE] [EXCLUDE] filter_option

Where:

filter_option can be one of:

```
ANSINAME name [, name]
AUDITRBA rba [comparison_operator] |
CLEAR {filter_spec | ALL} |
CSN | LogCSN [comparison_operator] [value]
ENDTIME time_string |
FILENAME name [, name] |
GGSTOKEN token_name [comparison_operator] [token_value] |
HEX "hex_string" [byte_range][, "hex_string" [byte_range]] [...] |
INT16 16_bit_integer |
INT32 32_bit_integer |
IOTYPE operation_type [, operation_type] |
MATCH {ANY | ALL} |
OFF
ON
PROCESS process_name |
RBA byte_address [comparison_operator] [...] |
RECLEN length [comparison operator] |
RECTYPE {type_number | type_name} |
SHOW
STARTTIME time_string
STRING [BOTH] [B], text [
                          column_range
                                            1
   [[B],text [column_range]] [...] |
SYSKEY system_key [comparison_operator] [...] |
TRANSID transaction_identifier |
TRANSIND indicator [comparison_operator] |
TYPE type
UNDOFLAG type [comparison_operator] |
USERTOKEN token_name [comparison_operator] [token_value]
}
```



ANSINAME name [, name]

Filters based on the ANSI name of a SQL/MX table or a table from a Windows or UNIX source system. For use on NonStop systems. The format for *name* is: *catalog.schema.table*

Up to eight name specifications may be supplied. The command is case-sensitive. To filter based on the name of a data file, use the FILENAME option.

AUDITRBA rba [comparison_operator]

Filters based on the relative byte address of a commit record. For *comparison_operator*, see "Comparison Operators".

CLEAR {filter_spec | ALL} Removes filtering criteria.

• ALL removes all filter criteria.

• *filter_spec* removes only the specified criterion. Specify any FILTER option, but not the value. The following example is valid:

FILTER CLEAR STRING

The following example is not valid:

FILTER CLEAR STRING "Denver"

An alias for CLEAR is RESET.

CSN | LogCSN [comparison_operator] [value] Filters based on a commit sequence value. For comparison_operator, see "Comparison Operators".

ENDTIME time_string

Ends the filter at the last record written at the specified time. For the time string, use the format of:

[[yy]yy-mm-dd] [hh[:mm][:ss]]

Example:

ENDTIME 2011-01-31 23:59:59

This command can be shortened to ENDTS or END.

FILENAME name [, name]

Filters based on the name of a SQL table, or a group of names, with the name format being:

[catalog.]owner.table
[catalog.]owner.string*

Also filters on the name of a NonStop data file, or a group of names, with the name format being:

volume.subvolume.file
volume.subvolume.string*

On Windows and UNIX, both types of objects are supported. On NonStop, only viewing NonStop files is supported. To view SQL tables on NonStop, use the ANSINAME option.



FILENAME is case-sensitive on Windows and UNIX systems. If the database requires quote marks around a name If opening a NonStop data file on Windows or UNIX, the file name is converted to upper case. FILENAME can be shortened to FILE or FI. Up to eight name specifications may be supplied.

GGSTOKEN token_name [comparison_operator][token_value] Filters based on a specific token in the record header.

• For *token_name*, provide the name of the token, such as TRANSID.

To view a list of possible tokens and values, see "GGSTOKEN".

• For *token_value* provide the actual value for this token that is to be the filter string.

For comparison_operator, see "Comparison Operators"

HEX "hex_string" [byte_range] [, "hex_string" [byte_range]] [...] Filters based on a hex string and, optionally, a range of columns. To specify a range of columns, use the format of:

start_column:end_column

Example:

10:35

This option allows up to eight hex string and column arguments. Hex strings must be enclosed within quotes.

Hex filter strings must be in double quotes.

INCLUDE

Specifies that the filter will include the information specified with other options in the current FILTER statement. Can be shortened to INC.

EXCLUDE

Specifies that the filter will exclude the information specified with other options in the current FILTER statement. Can be shortened to EXC.

INT16 16_bit_integer

Filters based on a 16-bit integer. Use with 16-bit processors.

INT32 32_bit_integer

Filters based on a 32-bit integer. Use with 32-bit processors.

IOTYPE operation_type [, operation_type]

Filters based on the type of operation. A list of record types can be viewed with the SHOW RECTYPE command in Logdump. Up to 32 operation types can be specified with IOTYPE.

MATCH {ANY | ALL}

Controls filtering response when multiple filters have been specified. Can be shortened to MAT or MA.

- ANY includes a record for display or counts if the condition matches any of the filter conditions. This is the default.
- ALL includes a record for display or counts only if the condition matches all of the filter conditions.



OFF

Disables record filtering. By default, filtering is disabled. An alias for this option is DISABLE.

ON

Enables record filtering. An alias for this option is ENABLE.

RBA byte_address [comparison_operator] [...] Filters based on a relative byte address. Accepts either a 32-bit or 64-bit value. Up to 32 specifications can be supplied.

RECLEN length [comparison_operator]

Filters based on a record length, in bytes. For *comparison_operator*, see "Comparison Operators".

RECTYPE {type_number | type_name}

Filters based on the type of record. Can be either of the following:

• The number assigned to the record type.

FILTER RECTYPE 10

• The name of the record type.

FILTER RECTYPE Update

To view the record type names and numbers, issue the SHOW RECTYPE command. (See "SHOW".)

SHOW

Displays filter settings. Same as using FILTER without any options.

STARTTIME time_string

Starts the filter with the first record written at the specified time. For the time string, use the format of:

[[yy]yy-mm-dd] [hh[:mm][:ss]]

Example:

```
STARTTIME 2011-01-01 00:00:00
```

Can be shortened to STARTTS or START.

STRING [BOTH] [B], "text" [column_range] [[B], text [column_range]] [...]

- *text* filters based on a string. Enclose the string within double quotes.
- *column_range* filters based on a range of columns. Use the format of:

```
start_column:end_column
```

Example:

10:35

- BOTH filters on both a string and a column range.
- [B] specifies a case-insensitive match. You can match up to eight string and column arguments.



If the trail data is EBCDIC, issue the EBCDICDATA ON or ASCIIDATA OFF command before using FILTER STRING to ensure the correct matching. STRING can be shortened to STR.

SYSKEY system_key [comparison_operator] [...]

Filters based on a NonStop source key. Accepts either a 32-bit or 64-bit value. Up to 32 specifications can be supplied.

TRANSIND indicator [comparison_operator]

Filters based on the TransInd field of the record header. Valid values:

0 =start of transaction

- 1 = middle of transaction
- 2 = end of transaction
- 3 = only record in transaction

For example, to filter for the end of a transaction, use the following command, including the spaces in the syntax:

FILTER INCLUDE TransInd > = 2

For comparison_operator, see "Comparison Operators"

TRANSID 'transaction_identifier'

Filters on the TMF transaction identifier when reading a TMF trail, for example:

FILTER INCLUDE TRANSID \GGQA(2).0.12792182.

UNDOFLAG type [comparison_operator]

Filters based on the NonStop undo flag. The undo flag is set for records that are undone when a TMF transaction is aborted. Normally, UndoFlag is set to zero, but if the record is the backout of a previously successful operation, then UndoFlag will be set to 1. An undo that is performed by the disc process because of a constraint violation is not marked as an undo.

For comparison_operator, see "Comparison Operators"

USERTOKEN token_name [comparison_operator] [token_value] Filters based on a specific user token in the trail file header.

- *token_name* is the name of any token that is defined with the TOKENS clause of a TABLE statement of the Extract parameter file. It is not case-sensitive.
- token_value is either a constant that is enclosed within double quotes or the result of an column-conversion function, depending on what was specified in the TOKENS clause for token_name.
- For comparison_operator, see "Comparison Operators"

The following shows filter options modified by comparison operators.

FILTER INCLUDE RECLEN > 400 FILTER INCLUDE RECLEN < 200 FILTER INCLUDE TRANSIND <> 1 FILTER INCLUDE SYSKEY > 202172700557313

The following filters for a data file name and for a relative key 19446, which has a hex value of 00004bf6. Because MATCH ALL is used, a record must meet all of the filter specifications to be included in the filter.



FILTER INCLUDE FILENAME \$QA01.QAESRC.ACCT*
FILTER INCLUDE HEX "00004bf6" 0:3
FILTER MATCH ALL

The following filters for tables that start with ACC except for the ACCDET table, and for records that contain a timestamp between the specified start and stop times. By default, if a record matches any of the INCLUDE specifications, it is included in the filter.

FILTER INCLUDE FILENAME SALES.ACC* FILTER EXCLUDE FILENAME SALES.ACCDET FILTER INCLUDE STARTTIME 2011-01-11 17:00:00 FILTER INCLUDE ENDTIME 2011-01-11 19:00:00

The following shows filter options with multiple specifications. By default, a record that matches any of these specifications will be included in the filter. Note that in the STRING filter, two of the criteria are not case-sensitive, while one is, and the filter is confined to a column range.

```
FILTER INCLUDE IOTYPE insert,update,delete
FILTER INCLUDE STRING b"String1" "string2" b"String3" 25:50
FILTER INCLUDE FILENAME $QA01.QAESRC.ACCT1, $QA01.QAESRC.ACCT2,
$QA01.QAESRC.ACCT3
```

2.26 FLOAT

Use FLOAT to display a number or hex string in both its hex representation and as a floating-point number. This command is useful when looking for a specific floating-point number and you need the hex representation of that number. This command does not require a trail file to be opened.

The output of this command is *hex_value float_string*.

FLOAT assumes the floating point representation is the default for the current platform. It will not make a conversion between a Tandem floating point number (which is not IEEE-754) and a IEEE-754 floating point number, which is supported on UNIX and Windows systems.

Default

None

Syntax

FLOAT input_string [format]

input_string
Can be one of the following:

- A valid floating point number as a string in the format of the following: an optional sign character (+ or -), followed by a sequence of decimal digits, which can contain a decimal-point followed by an exponent (an e or E character, followed by an optional sign and a sequence of digits.
- A valid hexadecimal number as a string formed by the following: 0x, %H, %h, X, x, H or h, followed by a sequence of hexadecimal digits (1-9, a-f).

format

Can be one of the following:



- One of the following to specify the output format sizing: IEEE, TDM, TANDEM, NSK, 64bit, 64-bit, F64, 32bit, 32-bit Or F32.
- A format specifier formed by the string FMT followed by any valid C99 Print Format specifier (for example, %lx, %e, %g).

Example

The following examples are different results that can be obtained for the same values 2.1 and 2.2.

```
Logdump 58 >float 2.1
4000ccccccccd 2.100000
Logdump 59 >float 2.2
40019999999999a 2.200000
Logdump 60 >float 0x4000cccccccccd
4000cccccccccd 2.100000
Logdump 61 >float 0x40019999999999a
40019999999999a 2.200000
Logdump 62 >float %H40019999999999a
40019999999999a 2.200000
Logdump 63 >float 2.2 FMT %e
400199999999999 2.200000e+00
Logdump 64 > float 2.2 FMT %g
40019999999999a 2.2
Logdump 65 >float 0x4000cccccccccd FMT %g
4000ccccccccd 2.1
Logdump 66 >float 2.2e+01
40360000000000 22.000000
Logdump 67 >float 2.2e-05
3ef711947cfa26a2 0.000022
```

2.27 GGSAUDITREAD

Use GGSAUDITREAD to read the TMF audit trail. GGSAUDITREAD bypasses TMFARLIB and causes Logdump to open and read the TMF trail directly. This command is strictly for use by support analysts.

Default

Disabled

Syntax

```
GGSAUDITREAD audit_trail_file
```

2.28 GGSTOKEN

Use GGSTOKEN to include tokens in the record display. An token is internal information that the application places in the record for its own use. tokens are not for use by users.

Without arguments, GGSTOKEN displays the status of token display (ON or OFF).

tokens on NonStop are:

```
"TRANSID"
"BEGINSEQNO"
"BEGINRBA"
```



"BEGINTIMESTAMP" "PARENTNODE" "PROCESSNAME" "PROGRAMNAME" "HOMENODE" "CHILDLIST"

tokens on Windows and UNIX are:

"ORAROWID" "TRANID" "MARKER" "FETCHEDDATA" "FORCEDCOMMIT" "DDL" "LOGCSN" "GROUPNAME" "VAMSEQID"

Default

OFF

Syntax

GGSTOKEN {ON | OFF | DETAIL}

ON

Enables the display of tokens.

OFF

Disables the display of tokens.

DETAIL

Adds the token ID and length to the display.

Examples

Example 1

GGSTOKEN ON

This shows something similar to the following:

```
GGS tokens:
5200 1400 4141 4148 6561 4141 4641 4141 4141 4F41 : R...AAAHeaAAFAAAAAAA
4143 0001 : AC..
```

Example 2

GGSTOKEN DETAIL

This shows something similar to the following:

```
GGS tokens:
TokenID R (x52), Info 0, Length 20
4141 4148 8561 4141 4641 4141 4141 4F41 4144 0001 : AAAHeaAAFAAAAA0AAD..
```

2.29 GGSTOKEN

Valid for Oracle.



Use GGSTOKEN to control whether or not automatically generated token data is displayed with each record. It applies to the automatically generated tokens like the transaction id, row id, fetching status and tag value. These values are stored in the record header and can be mapped to a target column or used for some other purpose during processing.

Without arguments, GGSTOKEN displays the status of user token display (ON or OFF). With the ON option, the name of the token and its length are displayed. The DETAIL option shows the actual token data.

Default

Display token name and length.

Syntax

GGSTOKEN {ON | OFF | DETAIL}

ON

Enables the display of automatically generated tokens.

OFF

Disables the display of automatically generated tokens.

DETAIL

Displays the automatically generated tokens including the transaction ID (XID), the row id for DML operations, the fetching status (if applicable), and tag value.token data.

2.30 GHDR

Use GHDR to control whether or not the record header is displayed with each record. Each record contains a header that includes information about the transaction environment. Without arguments, GHDR displays the status of header display (ON or OFF).

Default

OFF

Syntax

```
GHDR {ON | OFF}
```

2.31 HASHCLEAR

Use ${\tt HASHCLEAR}$ to release memory allocated to the hash list that is generated by the ${\tt HASHSTATS}$ command.

An alias for HASHCLEAR is HASHRESET.

Default

None



Syntax

HASHCLEAR

2.32 HASHSTATS

Use HASHSTATS to enable or disable the display of statistics about file name hashing after a COUNT DETAIL command. The command without arguments displays whether the hash statistics are enabled or disabled. Use the HASHCLEAR or HASHRESET command to clear the memory allocated to the hash list.

Default

OFF

Syntax

HASHSTATS {ON | OFF}

Example

The following is the result when HASHSTATS is enabled. It appears at the end of the COUNT DETAIL display.

Files	7, Coll	0, Chain	0
Avg Hash	lookup time	5 across 1093	lookups

2.33 HEADERTOKEN

Use HEADERTOKEN to control whether or not header token indicators are displayed with each record. The header token indicators are the following:

- G record header (begin of record)
- \mathbf{H} header area
- D data area
- ${\ensuremath{\mathbb T}}$ internal token

U — user token area (does not display if user tokens are not in use)

 $\mathbf{z}-\!\!\!\!-\!\!\!\!$ end of record

Without arguments, HEADERTOKEN displays the status of header token indicators (ON or OFF).

Default

OFF

Syntax

HEADERTOKEN {ON | OFF | DETAIL}

ON

Enables the display of header tokens.



OFF

Disables the display of header tokens.

DETAIL Provides detailed token values.

Examples

Example 1

HEADERTOKEN, without DETAIL

TokenID G, Info 0, Length117TokenID H, Info 0, Length45TokenID D, Info 0, Length28TokenID T, Info 0, Length24TokenID Z, Info 0, Length117

Example 2

HEADERTOKEN with DETAIL

```
TokenID G, Info O, Length 146

TokenID H, Info O, Length 42

4504 0041 3C00 05FF 402F AE6C 572A F102 F818 8F02 : E..A<...@/.1W*.....

0000 0000 1000 0000 0152 0000 0001 4852 2E4A 4F42 : .....R...FR.JOB

5300

TokenID D, Info O, Length 60

TokenID T, Info O, Length 24

TokenID Z, Info O, Length 146
```

2.34 HELP

Use HELP to view the syntax of Logdump commands.

Default

None

Syntax

HELP

2.35 HISTORY

Use HISTORY to view the most recently issued Logdump commands since the session started, or to reset the command count starting at line 1 again. HISTORY can be shortened to HIST.

Note:

You can use the FC command to re-execute a command in the list. See "FC"

Default

Display recent commands

ORACLE

Syntax

HISTORY [n] [CLEAR]

n

Returns the specified number of previously issued commands, where n is any positive number.

CLEAR

Deletes the command history buffer and reverts the command line to 1.

Example

HISTORY 3

The results of this command would be similar to:

1: ghdr on

- 2: detail on
- 3: scanforheader

2.36 INTERPRETINTERVAL

Use INTERPRETINTERVAL to display a 64-bit Julian time interval in the format of *days*-*hh:mm:ss.ms.us*.

Default

None

Syntax

INTERPRETINTERVAL interval_string

interval_string

A string representing the interval to be converted.

Example

INTERPRETINTERVAL 1234567

This produces the following result:

```
Interval 1234567 is 0-00:00:01.234.567
```

2.37 INTERPRETTIMESTAMP

Use INTERPRETTIMESTAMP to display a 64-bit Julian timestamp as an ASCII value.

Default

None

Syntax

INTERPRETTIMESTAMP timestamp



timestamp

 $\label{eq:A_states} A \text{ JULIANTIMESTAMP } value.$

Example

INTERPRETTIMESTAMP 211976584185800569

This produces the following result:

2005/03/03 04:29:45.800.569 GMT 2005/03/02 20:29:45.800.569 LCT

2.38 LOG

Use LOG to start and stop the logging of Logdump sessions. When enabled, logging remains in effect for all sessions of Logdump until disabled with the LOG STOP command. Without arguments, LOG displays the status of logging (ON or OFF). An alias for LOG is OUT.

Default

Disabled

Syntax

LOG {file_name | STOP}

file_name

Specifies the name of the log file. Specify a full path name to store the file in a directory other than the current working directory.

STOP

Stops logging.

Example

LOG /home/ggs/dirrpt/logdumpout.txt

Example

LOG \$data01.glogggl.sesslog

2.39 Metadata ddlformat

Use ${\tt Metadata}\ {\tt ddlformat}\ {\tt on}\ {\tt a}\ {\tt NonStop}\ {\tt system}\ {\tt to}\ {\tt display}\ {\tt the}\ {\tt TDR}\ {\tt columns}\ {\tt in}\ {\tt Nonstop}\ {\tt DDL}\ {\tt format}.$

Default

OFF

Syntax

```
Metadata ddlformat {ON | OFF}
```



2.40 Metadata defgenformat

Use Metadata defgenformat on a NonStop system to display the columns in a TDR in the format of a GG definition from a definition file.

Default

OFF

Syntax

Metadata defgenformat {ON | OFF}

2.41 Metadata detail

Use Metadata detail on a NonStop system to display the tokens and values that make up a metadata.

Default

OFF

Syntax

Metadata detail {ON | OFF | DATA}

2.42 Metadata sqlformat

Use ${\tt Metadata \ sqlformat}$ on a NonStop system to display the columns in a TDR in the format of a SQL table create.

Default

OFF

Syntax

Metadata sqlformat {ON | OFF}

2.43 NEXT

Use NEXT to display the next record or records in the file. The default displays only the next record. NEXT can be shortened to N. An alias for NEXT is RECORD.

Default

Display the next 1 record

Syntax

NEXT [n]



n

Displays the specified number of subsequent records.

Example

NEXT 10

2.44 NEXTTRAIL

Use NEXTTRAIL to close an open trail file and open the next one in the sequence. An alias for NEXTTRAIL is NT.

Default

None

Syntax

NEXTTRAIL

2.45 NOTIFY

Use NOTIFY to display the number of records scanned, the trail position, and the record timestamp at specified intervals when using COUNT and records are being suppressed from display through filtering options. An alias for NOTIFY is NOTIFYINTERVAL.

Instead of displaying each notify interval on a separate line, you can configure Logdump to simply update a single line with each new scan result. See "SCANSCROLLING".

Default

None

Syntax

NOTIFY interval

interval

The notification interval expressed as a number of records.

Example

The following shows the usage and result of this command.

Logdump 26> NOTIFY 1000 Logdump 27> FILTER INCLUDE FILE sales.res* Logdump 28> COUNT Scanned 1000 records, RBA 160380,2011/02/01 08:53:47.768.255 Scanned 2000 records, RBA 729961,2011/02/01 08:56:09.916.128 Scanned 3000 records, RBA 2032683,2011/02/01 08:56:09.916.128 Scanned 4000 records, RBA 3244585,2011/02/01 08:56:09.916.128 Scanned 5000 records, RBA 4568766,2011/02/01 08:56:09.916.128



2.46 OBEY

Use OBEY to process a file that contains a list of Logdump commands. OBEY is useful for executing commands that are frequently used in sequence.

OBEY can be shortened to O. An alias for OBEY is SOURCE.

Default

None

Syntax

OBEY file_name

file_name

The fully qualified name of the file containing the list of commands.

Example

This is a UNIX example.

OBEY ./ldcommands.txt

Example

This is a NonStop example.

OBEY \$DATA01.GGSPARM.OBEY1

The preceding command executes a file that might look something like this:

```
ghdr on
usertoken on
detail
filter enable
filter clear
filter match all
```

2.47 OPEN

Use OPEN to open a trail file or extract file in Logdump. Without arguments, the command displays the name of the file that is currently open. Aliases for OPEN are FROM and LOGTRAIL.

Default

None

Syntax

OPEN file_name



file_name

The fully qualified path name of the trail file or extract file to be opened. To specify a trail file, specify the trail name (a two-character prefix) and the sequence number, for example jd000000.

Example

This is a UNIX example.

OPEN /home/ggs/dirdat/jd000000

Example

This is a NonStop example.

OPEN \$data01.glogggl.aa000000

2.48 POSITION

Use **POSITION** to set the read position in the file. The position of a record in the file is noted in the record header in the AuditPos field.

Without options, POSITION displays the current read position. Options let you specify an exact position. After you set the position, issue the NEXT command to view the record at that position.

POSITION can be shortened to POS.

Default

None

Syntax

```
POSITION [bytes | {0 | FIRST}]
```

bytes

Specifies the number of bytes into the file at which to read. Use the NEXT command to view the specified record.

0 | FIRST

Positions Logdump at the beginning of the file.

Syntax

POS 77580548

2.49 RECLEN

Use RECLEN to control how much of the record data is displayed. You can use RECLEN to control the amount of scrolling that must be done when records are large, while still showing enough data to evaluate the record. Data beyond the specified length is truncated.

Default

140 bytes



Syntax

RECLEN n

n

The number of bytes of the record that is displayed.

Example

RECLEN 280

2.50 SAVE

Use SAVE to write a subset of the records to a new trail or extract file. By saving a subset to a new file, you can work with a smaller file that is easier to debug. Saving to another file also enables you to extract valid records that can be processed by , while excluding records that may be causing errors.

To set the version of the trail or file (to old or new format), use the TRAILFORMAT command.

Default

None

Syntax

```
SAVE file_name [!] {n records | n bytes}
[NOCOMMENT]
[OLDFORMAT | NEWFORMAT]
[TRANSIND indicator]
[TRUNCATE]
```

file_name

The name of the new file. To specify a trail file, specify the two-character trail name and a sequence number, for example rt000001.

!

Overwrites the specified file, if the same file already exists. First a purge is done, and then the specified records are saved to the file.

n records | n bytes

Specifies either a number of records or a number of data bytes to write to the new file. The *n* number of records or bytes are taken forward from the current position in the file. You can change the position with the POSITION command. See "POSITION".

EXT (pri, sec [, max])

Specifies savefile extent sizes. This option is valid on NonStop only.

MEGABYTES n

Specifies the size of a savefile extent. This option is valid on NonStop only.

NOCOMMENT

Suppresses the leading and trailing comment records that are placed by default in the new file. These records describe the context of the file. The begin comment record



contains source trail information and the position where the save started. The end comment record identifies the end of the saved data. These headers are useful to separate different sets of records that are saved to the same file, but can be omitted.

OLDFORMAT | NEWFORMAT

Writes the data in either the current trail format (NEWFORMAT, the default) or the format that was used for versions 6.0 and earlier (OLDFORMAT).

TRANSIND indicator

Sets the TransInd header field in the records written to one of the following:

FIRST MIDDLE END ONLY

This allows you to reorder records in a transaction. TRANSIND applies to all records written by a SAVE command.

TRUNCATE

Purges an existing file before saving new information to it.

Example

SAVE /home/ggs/dirdat/rt000001 10 records nocomment

Example

SAVE \$data01.glogggl.ss000000 100 records

2.51 SCANFORENDTRANS

Use SCANFORENDTRANS to scan for a record that has a transaction indicator of 2 or 3, as shown in the TransInd field of the header. When one of those indicators is found, Logdump displays the first record of the next transaction.

The indicators represent the following:

- 2 last record in the transaction
- 3 only record in the transaction

SCANFORENDTRANS can be shortened to SFET.

Default

None

Syntax

SCANFORENDTRANS

2.52 SCANFORHEADER

Use SCANFORHEADER to go to the next record header. Before using this command, use the GHDR ON command to show record headers (see "GHDR"). SCANFORHEADER can be shortened to SFH.



Default

None

Syntax

SCANFORHEADER [PREV]

PREV

Displays the previous record header.

2.53 SCANFORMETADATA

Use SCANFORMETADATA to scan for a specific metadata record. SCANFORMETADATA can be shortened to SFMD.

Default

None

Syntax

SCANFORMETADATA [DDR | TDR] [Index | NEXT] SFMD [DDR | TDR] [Index | NEXT]

DDR | TDR

Specifies the type of metadata record to search for, either a Database Definition Record (DDR) or Table Definition Record (TDR)..

Index | NEXT Specifies an index to go to or the next record in the file.

Example

scanformetadata tdr

2.54 SCANFORRBA

Use SCANFORRBA to scan for the record at a relative byte address specified by the AuditRBA field of the record header. Before using this command, use the GHDR command to show record headers (see "GHDR"). SCANFORRBA can be shortened to SFR.

Default

None

Syntax

SCANFORRBA relative_byte_address [file_name]

relative_byte_address

Specifies the relative byte address to find.



file_name

Constrains the search to an Enscribe or SQL data file. A file name is required even if you are searching a file that is open in Logdump.

Example

SCANFORRBA 321 /home/ggs/dirdat/rt000000

Example

SCANFORRBA 321 \$data01.glogggl.rt000000

2.55 SCANFORTIME

Use SCANFORTIME to scan for a record that contains a specific timestamp. The timestamp is contained in the IO Time field of the record header. Before using this command, use the GHDR command to show record headers (see "GHDR"). SCANFORTIME can be shortened to SFTS.

Default

None

Syntax

SCANFORTIME time_string [, name]

time_string

Scans for a specific timestamp. For the time string, use the format of:

[[yy]yy-mm-dd] [hh[:mm][:ss]]

name

Constrains the search to a specific table or data file name, or a group of names specified with a wildcard.

Example

SCANFORTIME 2011-01-27 14:33:57

2.56 SCANFORTYPE

Use SCANFORTYPE to scan for the next record of the specified type. SCANFORTYPE can be shortened to SFT.

Default

None

Syntax

SCANFORTYPE {type_name | type_number}



type_name | type_number

Specifies the type of record to search for, either by type name or type number. To view a list of record types and their associated numbers, use the SHOW RECTYPE command (see "SHOW").

Example

Both of the following commands return the same result: They display commit records.

```
SCANFORTYPE Commit SFT 2
```

2.57 SCANSCROLLING

Use SCANSCROLLING to configure Logdump to update a single line after COUNT scans when NOTIFY is enabled. Otherwise, each scan notification appears on a different line. See "NOTIFY" for more information.

Default

OFF

Syntax

SCANSCROLLING {ON | OFF}

ON

Enables the use of a single line for count notification results.

OFF

Disables the use of a single line, causing a separate line to be used for each notification.

2.58 SHOW

Use SHOW to display internal Logdump information, including files that are open if the system is NonStop, the current Logdump environment, a list of record types, and current filter settings. SHOW can be shortened to SH or SHO.

Default

None

Syntax

```
SHOW
[ENV]
[FILTER]
[OPEN]
[RECTYPE]
```

ENV

Displays the current Logdump environment. Same as the ENV command (see "ENV").

FILTER

Displays current filter settings.



OPEN

Shows all NonStop files that are open in Logdump.

RECTYPE

Displays a list of record types that can be displayed with Logdump.

Examples

Example 1

SHOW FILTER

This shows something similar to the following on Windows or UNIX:

```
Data filters are ENABLED
Include Match ALL
Filename-0 : $QA01.QAESRC.ACCT*
HEX-0 : ( 4), Col 0:3
0000 4BF6
Exclude Match ANY
```

It shows something similar to the following on NonStop:

```
Data filters are ENABLED
Include Match ALL
Rectypes : Delete
Filename-0 : hr.regions
Exclude Match ANY
```

Example 2

SHOW OPEN

This shows something similar to the following:

- 0 : \$RECEIVE
- 1 : \GGS2.\$ZTN2.#PTW6EUX
- 2 : \GGS2.\$DATA4.#0009047
- 3 : \GGS2.\$ZTN2.#PTW6EUX
- 4 : \GGS2.\$DATA4.CPSDAT.TM000000

Example 3

SHOW RECTYPE

This shows results similar to the following. (This list might not reflect all possible record types. New types are added when needed to support new functionality.)

- 1 Abort
- 2 Commit
- 3 Delete
- 4 EndRollBack
- 5 Insert
- 6 Prepared
- 7 TMF-Shutdown
- 8 TransBegin
- 9 TransRelease
- 10 Update



- 11 UpdateComp
- 12 FileAlter
- 13 FileCreate
- 14 FilePurge
- 15 FieldComp
- 16 FileRename
- 17 AuxPointer
- 18 NetworkCommit
- 19 NetworkAbort
- 20 CurrentPos
- 89 SQL/MX DDL OP
- 90 GGSSQLCol
- 100 GGSPurgedata
- 101 GGSPurgeFile
- 102 GGSCreateFile
- 103 GGSAlterFile
- 104 GGSRenameFile
- 105 GGSSetmode
- 107 GGSControl
- 106 GGSChangeLabel
- 160 DDL OP
- 115 GGSKeyFieldComp
- 117 GGSKeyFieldComp32
- 161 RecordFragment
- 116 LargeObject
- 132 GGSCreateSequence
- 133 GGSAlterSequence
- 134 GGSDropSequence
- 150 RestartAbend
- 151 RestartOK
- 152 RecoveryEnd
- 200 GGSBulkio
- 201 GGSFileClose
- 202 GGSLoggerTS
- 203 GGSExtractTS
- 204 GGSCollectTS
- 205 GGSComment
- 250 LibOpenTrace
- 251 LibCloseTrace
- 252 LoggerOpenTrace
- 253 LoggerCloseTrace
- 254 LoggerAddedInfo
- 249 LoggerAddedStats

2.59 SKIP

Use SKIP to skip the specified number of records.



Default

None

Syntax

SKIP n

n

The number of records to skip.

Example

SKIP 50

2.60 TIME

Use TIME to display the current time in local and GMT formats.

Default

None

Syntax

TIME

2.61 TIMEOFFSET

Use TIMEOFFSET to set the Logdump time format. Without arguments, TIMEOFFSET displays the current time offset. Options enable you to set the time to the local time, Greenwich Mean Time (GMT), or a specific offset from GMT. The specified time format applies to the timestamps shown in records as well as any Logdump commands that accept a time string argument.

Default

LOCAL

Syntax

TIMEOFFSET {LOCAL | GMT | GMT + hh[:mm] | GMT - hh[:mm]}

LOCAL Sets the time to that of the local system.

GMT

Sets the time to Greenwich Mean Time (GMT).

GMT + *hh*[:*mm*] Sets the time ahead of GMT by the specified number of hours and, optionally, minutes.

GMT - hh[:mm] Sets the time behind GMT by the specified number of hours and, optionally, minutes.



Example

TIMEOFFSET GMT -01

2.62 TMFBEFOREIMAGE

Use ${\tt TMFBEFOREIMAGE}$ on a NonStop system to view the before image for update operations from TMF audit.

Default

OFF

Syntax

TMFBEFOREIMAGE {ON | OFF}

ON

Displays the before image for update operations from the TMF audit.

OFF

Displays only the after image for update operations from the TMF audit.

Example

A sample display for TMFBEFOREIMAGE ON is shown below.

2011/01/12 10:02:34.325.264 FieldComp	Len	38 RBA 615854956	
Name: \NY.\$DATA1.GGSDAT.TCUSTMER			
Before Image:		Partition 0	
0000 0004 414E 4E20 0002 0014 5345 4154 544C	4520	ANNSEATTLE	
2020 2020 2020 2020 2020 2020 0003 0002 5741		WA	
2011/01/12 10:02:34.325.264 FieldComp	Len	38 RBA 615854956	
Name: \NY.\$DATA1.GGSdat.TCUSTMER			
After Image:		Partition 0	
TRANSID : \NY(2).0.7022034 (7998393398406021122)			
0000 0004 414E 4E20 0002 0014 4E45 5720 594F	524B	ANNNEW YORK	
2020 2020 2020 2020 2020 2020 0003 0002 4E59		NY	

2.63 TMFBEFOREIMAGE

Use TMFBEFOREIMAGE on a NonStop system to set the TMFARLIB to fetch the before image of the record and display it with the after image. Without an argument, this command displays whether the fetching of before images is on or off.

Default

OFF

Syntax

 $\texttt{TMFBEFOREIMAGE} \ \{\texttt{ON} \ | \ \texttt{OFF} \}$



2.64 TMFGETRECADDR | NOTMFGETRECADDR

Use TMFGETRECADDR and NOTMFGETRECADDR on a NonStop system to control the ability of Logdump to call the ArgeTRECADDR() function of TMFARLIB. This function is used when examining a TMF audit trail.

Default

None

Syntax

TMFGETRECADDR | NOTMFGETRECADDR

TMFGETRECADDR

Enables the use of the ARGETRECADDR() function.

NOTMFGETRECADDR

Disables the use of the ARGETRECADDR() function.

2.65 TMFIGNORERECCOUNT

Use TMFIGNORERECCOUNT on a NonStop system to set the number of records that the TMFARLIB can ignore before returning a CURRENTPOSITION record.

Default

None

Syntax

TMFIGNORERECCOUNT n

2.66 TRAILFORMAT

Use TRAILFORMAT to set the version of the trail or extract file that is being saved when using the SAVE command.

Default

NEW

Syntax

TRAILFORMAT {NEW | OLD}

NEW

Sets the format to that used by version 6.0 and later.

OLD

Sets the format to that used by versions earlier than 6.0.



2.67 TRANSBYTELIMIT

Use TRANSBYTELIMIT to prevent normal-sized transactions from being tracked in the transaction table specified with the TRANSHIST command. It sets a lower boundary for the number of bytes in a transaction and should be set to represent a normal-sized transaction for the environment being evaluated with Logdump. Setting a boundary reduces the amount of data that is stored and, consequently, the amount that must be reviewed when troubleshooting.

Default

10000 bytes

Syntax

TRANSBYTELIMIT n

n

The number of bytes in a normal-sized transaction.

Example

TRANSBYTELIMIT 9000

2.68 TRANSHIST

Use TRANSHIST to keep track of the size of transactions in a trail or file. Logdump tracks the transactions in an internal history table in descending order according to the number of bytes of data in each one. When the history table is full, the smallest transaction is removed to allow a larger transaction to be added to the list.

Use TRANSHIST in conjunction with other Logdump commands to determine whether or not your applications generate large transactions and to identify their relative size. This information can be used when deciding how to group tables into different processing groups for faster throughput. For more information, see "Evaluating Transaction Size".

Note:

You can use the SEND EXTRACT command with the SHOWTRANS option to view a list of long-running transactions. Other options enable you to control whether those transactions are ignored or processed by Oracle GoldenGate.

Default

0 (do not maintain history)

Syntax

TRANSHIST n



n

Sets the size of the history table, in bytes. Valid values are 0 through 200 bytes. A value of 0 means that no transaction history is maintained.

Example

TRANSHIST 150

2.69 TRANSRECLIMIT

Use TRANSRECLIMIT to prevent normal-sized transactions from being tracked in the transaction table specified with the TRANSHIST command. It sets a lower boundary for the number of records in a transaction and should be set to represent a normal-sized transaction for the environment being evaluated with Logdump. Setting a boundary reduces the amount of data that is stored and, consequently, the amount that must be reviewed when troubleshooting.

Default

100 operations

Syntax

TRANSRECLIMIT n

n

The number of records in a normal-sized transaction.

Example

TRANSRECLIMIT 90

2.70 USERTOKEN

Use USERTOKEN to control whether or not user token data is displayed with each record. A user token is data specified by an user that is stored in the record header and can be mapped to a target column or used for some other purpose during processing.

Without arguments, USERTOKEN displays the status of user token display (ON or OFF). With the ON option, the name of the token and its length are displayed. The DETAIL option shows the actual token data.

Default

Display token name and length.

Syntax

USERTOKEN {ON | OFF | DETAIL}

ON

Enables the display of user tokens.

OFF

Disables the display of user tokens.



DETAIL Displays the token data.

2.71 VOLUME

Use **VOLUME** to set the default directory, volume or subvolume. An alias for this command is CD.

Default

None

Syntax

VOLUME {directory | volume | subvolume}

2.72 WRITELOG

Use $\tt WRITELOG$ to write text to the session log. Before using this command, start logging with the Log command (see "LOG").

Default

None

Syntax

WRITELOG text

text

Any text string. Quotes are optional.

Example

WRITELOG "Customer name is ABC Company."

2.73 X

Use ${\tt X}$ to execute a program from within Logdump. When you exit the program, the Logdump prompt returns.

Default

None

Syntax

X program [string]

command The program to run.

string A character string, such as input arguments.



Example

The following series of commands and output shows how you can exit Logdump, issue other commands from the shell or within GGSCI, and then return to the Logdump command line.

Logdump 696 >x ggsci GoldenGate Command Interpreter Version GGSCI (sysa) 1> status er * GGSCI (sysa) 2> start er * GGSCI (sysa) 3> info er * GGSCI (sysa) 4> exit Logdump 697 >

