

CA-IDMS[®]

Online Log Display
User Guide
15.0



Computer Associates

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About This Guide

This CA-IDMS/Online Log Display User Guide is a reference tool that provides complete information on how to use CA-IDMS/Online Log Display.

Organization

Chapter	Description
1	General Information. Describes the features of CA-IDMS/Online Log Display.
2	Session. Describes a typical CA-IDMS/Online Log Display session. Outlines the steps necessary to use the utility and describes screen formats.
3	Operations. Describes CA-IDMS/Online Log Display system requirements, modules, storage requirements, the Online Documentation Print Utility, and CA-IDMS/Online Log Display Customization.
4	Messages. Lists all messages generated by CA-IDMS/Online Log Display. Also lists the codes for messages, gives reasons for their occurrences, and suggests remedial actions when appropriate.
A	Abbreviations. Lists abbreviations found on statistics screens, along with the corresponding CA-IDMS names for the statistics. The abbreviations are listed alphabetically by screen.

CA-IDMS/Online Log Display is year 2000 compliant. CA-IDMS/Online Log Display assumes if the year is greater than 69, the century is 19; if the year is less than 69 the century is 20.

Related Publications

For more information on maintaining and customizing the Online Log Display User Guide see the *CA-IDMS Installation and Maintenance Guide*.

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1.1 CA-IDMS/Online Log Display Expedites Log Reviews

CA-IDMS/Online Log Display is a tool that gives CA-IDMS/DC and CA-IDMS/UCF users online access to a full-screen display of run-time events recorded in the log.

With CA-IDMS/Online Log Display, all data processing personnel can now use the logging feature of CA-IDMS easily. You no longer need to construct JCL to print the log and then wait for completion of batch reporting. By invoking CA-IDMS/Online Log Display and using two or three simple commands (OR PF keys), you have direct access to the portion of the log relevant to your needs.

1.1.1 A Tool for All Users

CA-IDMS/Online Log Display is a useful tool for DBAs, systems programmers, database technicians, and applications programmers. It allows them to review use of facilities, systems, and programs.

1.1.2 Speeds Performance Reviews and Program Testing

DBAs will find that CA-IDMS/Online Log Display allows them to:

- Review performance characteristics online
- Trace security violations quickly
- Monitor the daily environment
- Locate task, storage, and program errors.

Systems programmers and database technicians can use CA-IDMS/Online Log Display to:

- Evaluate system performance
- Locate device interface problems
- Detect system software problems.

Application programmers can use this tool as an aid to:

- Test programs.

1.1.3 Important Features

1.1.3.1 Full Screen Display

CA-IDMS/Online Log Display gives you full-screen display and entry on all IBM 3270 (model 2 only) and 3270-compatible terminals.

1.1.3.2 Windowing Facility

A convenient "windowing" facility allows you to move a "window" (your terminal display) to view records that exceed normal screen size. You can easily move the window up, down, left, or right in the log by using PF keys or abbreviated commands.

1.1.3.3 Three Levels

There are three levels of display-- the menu level, the event level, and the detail level. From the menu, you can select the log events display you need. You can view all log events or you can select CA-IDMS DC messages, statistics text, dump text, or trace text. A detailed display of the log entries included in a dump, statistics, or trace event is available when you want it, by pressing a PF key.

1.1.3.4 Complete Information

The online presentation of logged events is concise and readable. To help you locate errors, the display of program dumps shows both hexadecimal and character display of the content of each address.

1.1.3.5 Accelerated Log Search

In addition to viewing the entire log, you can speed up the search of the log by using simple commands and PF keys. In order to limit the time spent searching the log, you can select a limited display: CA-IDMS messages, dump text, trace text, or statistics information. You can also limit the number of records to be searched during one transaction, or you can start the search at any database page in the CA-IDMS DC log area.

1.1.3.6 Easy Selection of Relevant Information

To select a particular log event from any events display, you need only position the cursor on a character in a log event line and press a PF key; or you can key in an abbreviated command.

Events with specific dates, times, character strings, or logical terminal elements can be requested by simple abbreviated commands. You can repeat a search for a character string by pressing a PF key.

1.2 Commands and Their Functions

Keyed in commands and their abbreviations are designed to be easy to remember. Even users new to CA-IDMS can access the log easily, and rapidly find specific data.

With CA-IDMS/Online Log Display commands and menu selections you can:

- Choose the type of log information to view
- Search for a specific character string
- Scroll through the entire database log
- Scroll through a limited portion of the log
- Search for a specific date or time
- Search for a specific logical terminal element
- Limit the search to specified columns
- Include archived records
- Limit the number of log records to be searched
- Start the next search for events on a specific database page in the CA-IDMS DC log area
- Review commands, PF key functions, and current parameter settings
- Return from a detail screen to the menu
- Exit from one level of display to the previous level or from the menu to CA-IDMS.

CA-IDMS/Online Log Display commands and their functions are covered in detail in Chapter 3, “Commands” on page 3-1

1.3 Select a Different Screen for Each Purpose

The menu and the variety of log display screens allow flexibility in choosing information. You can quickly select the type of information relevant to your application.

By viewing the CA-IDMS messages you can quickly find out who has signed on to the system and which programs and tasks have been run.

The occurrence counts in a statistics display facilitate immediate review of performance characteristics. For example, you can find out how much CPU time tasks are taking and evaluate the efficiency of your system.

Records of which program dumps or trace dumps have been recorded are found in the **Snap/Dump** Events screen. From there you can ask for a detailed program dump or trace dump display.

Locating application software problems is speeded up by online review of a user trace. The trace displays the contents of each register prior to a service request.

To locate device interface problems you can select a line trace dump which displays the datastream I/O written to and/or read from a terminal or printer.

To locate errors which cause programs to terminate abnormally, you can view the hexadecimal and character display equivalents of storage in a program dump. A snapshot dump also allows you to search for logical errors in programs.

Examples of each screen display and descriptions of items shown on the screens are given in Chapter 2, "Session" on page 2-1.

1.4 Environment

CA-IDMS/Online Log Display runs in a CA-IDMS 15.0 OS/390 environment.

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2.1 Events Written to the Log

Before starting a CA-IDMS/Online Log Display session, you should be sure that the events and messages of interest to you have been recorded in the log. For information on the sysgen requirements for writing events to the log, see Chapter 4, "Operations" on page 4-1.

In addition to those dump, trace, and statistics events which have been previously written to the log, the log contains CA-IDMS system messages.

2.2 Using CA-IDMS/Online Log Display

The steps in a typical CA-IDMS/Online Log Display session are listed below. Steps 3, 4, and 5 can be repeated until you have reviewed all the data you need to see.

Step 1--Invoke CA-IDMS/Online Log Display.

Step 2--Select the type of events from the menu.

- Optional:Include archived events.
- Optional:Limit number of log records to be searched on a given transaction.

Step 3--Review Event screen.

Step 4--Optional: Review detailed display.

Step 5--Exit to previous level or return to menu.

2.2.1 Step 1--Invoke CA-IDMS/Online Log Display

Enter the CA-IDMS/Online Log Display task code. The default is LOGD. The session begins with a display of the menu at your terminal.

2.2.2 Step 2--Select Type of Events from the Menu

Select the type of events from the menu by entering a number shown on the menu.

You can limit the display by suppressing archived records. Records remain in the log until the active CA-IDMS DC log area becomes full; then they are offloaded. At that time they become archived. They may be overwritten by CA-IDMS. Archived records in the log may still be included in the display by entering a **Y** after ARCHIVED. To suppress archived records, enter an **N** (default).

The LOG OBTAIN LIMIT displayed on the menu allows you to place an upper bound on the number of records that will be read in a given transaction. To limit the number of records to be obtained from the log in a given transaction, enter a number after LOG OBTAIN LIMIT. cp.

2.2.3 Step 3--Review the Event Screen

The event screen displays the date, time, LTERM identifier, and a brief description, of each event written to the log. You can scan the event screen, search for a specific event, or select a detailed display of a specific event.

2.2.4 Step 4--Review Detailed Display (Optional)

To see a detailed display of a specific event, key in the `DETAIL` command, position the cursor on a specific event line, and press the `ENTER` key; or position the cursor and press `PF3/15`. Look for the information you need in the contents of the dump, trace, or statistics display.

2.2.5 Step 5--Exit to Previous Level or Return to Menu

You can exit to the previous event screen by entering the `EXIT` command or pressing the `CLEAR` key.

You can return to the menu by entering the `RETURN` command or pressing `PF4/16`. From the menu, the `CLEAR` key allows you to exit to `CA-IDMS DC`.

2.3 Using Three Levels of Display to Find a Specific Dump

Figure 2-1 on page 2-7 to Figure 2-5 on page 2-12 illustrate the steps to find a specific dump. From the menu level you shift to the event level, and from there to the detail level. You can then exit to the event level or return to the menu level.

The other figures in this chapter illustrate screen formats. Here is a guide to the figures in this section.

Item	Screen Format	Figure
Example	Finding a Dump	Figure 2-1 on page 2-7 through Figure 2-4 on page 2-10
Menu Level	Menu Screen	Figure 2-5 on page 2-12
Event Level	All Log Events Screen	Figure 2-6 on page 2-14
Detail Level	Statistics Screens	
	System Wide	Figure 2-7 on page 2-15
	Terminal, Line, Program, Task, Queue	Figure 2-8 on page 2-16 through Figure 2-12 on page 2-17
	Transaction Wide	Figure 2-13 on page 2-18
	CA-ADS	Figure 2-14 on page 2-19
	User Trace Screen	Figure 2-15 on page 2-20
	SNAP/DUMP Screens	
	Program DUMP	Figure 2-16 on page 2-21
Trace Dump	Figure 2-17 on page 2-22	
All Levels	Show Screen	Figure 2-18 on page 2-24

2.4 Example

In this example, you will find a SNAP/DUMP that begins at a TCE and that was written on April 16, 1999 at the user's terminal.

2.4.1 Step 1--Invoke CA-IDMS/Online Log Display

Invoke CA-IDMS/Online Log Display by entering the task code at the CA-IDMS DC system prompt. The default task code is LOGD. CA-IDMS/Online Log Display responds by displaying the CA-IDMS/Online Log Display Menu screen.

```

          CCCCCCCC
        CCCCCCCC
        CCC
        CCC      AAAA      Online Log Display
        CCC      AAAAA
        CCC      AAAAAA      RELEASE   Rnn.nn
        CCC      AAA AAA
        CCC AAA  AAA
        CCAAACCCCC      SELECT TYPE OF DISPLAY ==> 4
        AAACCCCCCCC
        AAA      AAA          1. IDMS-DC MESSAGES
        AAA      AAA          2. STATISTICS
        AAA      AAA          3. USER TRACE
        AAA      AAA          4. SNAP/DUMP
        AAA      AAA          5. ALL LOG EVENTS

        (Y-YES, N-NO) ARCHIVED ==> N

        LOG OBTAIN LIMIT =====> 0000000
        LOGD001I-ENTER SELECTION

        CLEAR-EXIT          PF1-HELP          PF2-SHOW PROFILE
        COPYRIGHT (C) 1981, 1988, 1996 COMPUTER ASSOCIATES INTERNATIONAL, INC.

```

Figure 2-1. Step 1--Finding a Dump

2.4.2 Step 2--Select Type of Events

1. Type option **4** at the SELECT TYPE OF DISPLAY====> field on the Menu screen.
2. Type **N** (No) in the ARCHIVED====> field on the Menu screen.
3. Type **5000** in the LOG OBTAIN LIMIT====> field to limit the number of records obtained in this transaction to 5000.

4. Press the ENTER key. CA-IDMS/Online Log Display responds by displaying the LOG EVENTS - SNAP/DUMP screen.

```

==>
LOGD002I-ENTER REQUEST          LOG EVENTS - SNAP/DUMP          mm-dd-yy hh:mm:ss
                                CA, INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...
990416 10:52:31 VTAMLT01 RCE IS AT 001BAD30 01400001 00000155 00000140 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BA310 01410001 00000155 00000080 00
990416 10:52:31 VTAMLT01 RCE IS AT 001BA0D0 01410001 00000155 00000140 00
990416 10:52:31 VTAMLT01 RCE IS AT 001BA220 01450001 00000155 00000DC0 05
990416 10:52:31 VTAMLT01 RCE IS AT 001B9E30 01410001 00000155 00000840 00
990416 10:52:31 VTAMLT01 RCE IS AT 001BAC88 01C30002 00000155 00000380 00
990416 10:52:31 VTAMLT01 RCE IS AT 001BA280 01C10001 0000013F 00000100 05
990416 10:52:31 VTAMLT01 RCE IS AT 001B9ED8 01C10001 0000013F 00000800 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BAB50 01C10001 00000139 00000100 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BA538 01C10001 00000139 00004DC0 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BAE20 01C90001 0000010E 00000080 00
990416 10:52:31 VTAMLT01 RCE IS AT 001BAEE0 01C00001 0000010F 00000380 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BAB98 01C50001 0000013A 00000300 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BA208 01C10001 00000154 00001040 05
990416 10:52:31 VTAMLT01 RCE IS AT 001BAE68 0E000001 00000155 00000000 00
990416 10:52:31 VTAMLT01 TASK'S SCRATCH INDEXES
990416 10:52:31 VTAMLT01 RCE IS AT 001BADD8 04000001 0000013A 05554B48 00
990416 10:52:31 VTAMLT01 TASK'S PROGRAMS.
990416 10:52:31 VTAMLT01 RCE IS AT 001BABC8 02010002 000000D0 000000B1 04
990416 10:52:31 VTAMLT01 PDE AND PROGRAM TEXT
990416 10:52:32 VTAMLT01 RCE IS AT 001B4370 02010005 00000006 00000002 04

```

Figure 2-2. Step 2--Finding a Dump

2.4.3 Step 3--Review the Event Screen

1. Use the search and windowing commands to find the dump by typing **DATE 990416** in the command line and pressing the ENTER key.
2. Limit the display to the current logical terminal by typing the **LTE *** command and pressing the ENTER key.

```

==>
LOGD002I-ENTER REQUEST          LOG EVENTS - SNAP/DUMP          mm-dd-yy hh:mm:ss
                                CA, INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...
990416 15:08:48 VTAMLT01 047FED30 047FE000 00048070 0536C61C 847FC000 047
990416 15:08:48 VTAMLT01 TASKS TCE ADDRESS IS 0016C3A0
990416 15:08:48 VTAMLT01 TASKS DCE ADDRESS IS 00156430
990416 15:08:48 VTAMLT01 TASKS LTE ADDRESS IS 0005E740
990416 15:08:48 VTAMLT01 TASKS PTE ADDRESS IS 00061520
990416 15:08:48 VTAMLT01 TASKS PLE ADDRESS IS 00061440
990416 15:08:48 VTAMLT01 TASK'S RESOURCE CHAIN.
990416 15:08:48 VTAMLT01 RCE IS AT 001BBED0 01410001 000002B2 00000180 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BDE50 01410001 000002B2 00000040 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BB3C0 01450001 000002B2 00001EC0 05
990416 15:08:48 VTAMLT01 RCE IS AT 001BB600 01400001 000002B2 000000C0 05
990416 15:08:48 VTAMLT01 RCE IS AT 001BBF00 01490001 000002B2 00000040 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BC428 01490001 000002B2 00000080 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BCE00 01490001 000002B2 00001700 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BC068 01C90001 000002B2 00000240 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BBD68 01C90001 000002B2 000000C0 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BC0E0 01490001 000002B2 000001C0 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BC0B0 01400001 000002B2 00000100 05
990416 15:08:48 VTAMLT01 RCE IS AT 001BBF18 01400001 000002B2 00000140 05
990416 15:08:48 VTAMLT01 RCE IS AT 001BAB80 01410001 000002B2 00000140 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BB678 01410001 000002B2 00000080 00
990416 15:08:48 VTAMLT01 RCE IS AT 001BAB80 01410001 000002B2 00000140 00

```

Figure 2-3. Step 3a--Finding a Dump

3. To request a detail display of the TCE event, position the cursor anywhere on the TCE line and press **PF3** or **PF15**. You can also type **DETAIL** in the command area, position the cursor on the TCE line, and press the ENTER key.

```

==>
LOGD026W-AT PAGE FILE LIMIT      ONLINE LOG SNAP/DUMP      mm-dd-yy hh:mm:ss
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>
                                TOP OF LOG DUMP
TASKS TCE ADDRESS IS 0016C3A0
0016C3A0      E3C3C55C 000002B2   801AE568 001AF03C   *TCE*.....V...0.*
0016C3B0      801AE514 001AEA48   801AFA8C 001AFA8C   *..V.....*
0016C3C0      8016C3C0 0016C3C0   050A0248 001B7CB8   *..C...C.....@.*
0016C3D0      055325C8 00156430   8010EAF0 001CB388   *...H.....0...h*
0016C3E0      00000000 7FFFFFFF   0009F001 0005E740   *....".....0...X.*
0016C3F0      00000000 00000000   00000000 00000000   *.....*
0016C400      00000000 006C6690   C4C2E4C7 E2E3C1C5   *....%.DEBUGSTAE*
0016C410      0006FA00 0016D5C0   05533358 82580000   *.....N....b...*
0016C420      00000001 E0400020   00000000 00000000   *.....*
0016C430      00000000 00000000   00000000 00000000   *.....*
0016C440      1A000000 001CB7F4   00156430 82000011   *.....4....b...*
0016C450      00663808 00000000   00000000 00000000   *.....*
0016C460      00000000 00000000   00000000 00000000   *.....*
0016C470      00007440 0016C740   04603B10 000000FF   *.....G..-.....*
0016C480      0536D578 0536DB3E   00B71B3C 0536D428   *..N.....M.*
0016C490      0536D9DC 0536D98C   05371734 84730CD4   *..R...R....d..M*
0016C4A0      0536D274 04732CD4   0536D6A0 047309D0   *..K...M..O....*
0016C4B0      0536D798 04732DCE   006C6690 0016C5E0   *..Pq.....%.E.*
0016C4C0      0016D580 0016CB1C   00000016 0000001A   *..N.....*

```

↓
Address

↓
Hex Display

↓
Character Display

Figure 2-4. Step 3b--Finding a dump

2.4.4 Step 4--Examine Hex and Character Display

Examine the hex and character display to find the information you need. Use windowing and search commands as needed.

2.4.5 Step 5--Exit to Previous Level or Return to Menu

Press the CLEAR key or type EXIT and press the ENTER key to return to the previous display.

-or-

Press PF4/16 or type RETURN and press the ENTER key to return to the CA-IDMS/Online Log Display Menu screen.

2.5 CA-IDMS/Online Log Display Menu Screen

The CA-IDMS/Online Log Display Menu screen is shown below. From the menu, you can select the ALL LOG EVENTS screen or any of the four specific event screens. You can also suppress archived records, limit the number of records to be obtained from the log, or both. By entering an obtain limit, you can limit the resources used; the unused resources are left free for other uses.

To return to CA-IDMS/DC from the CA-IDMS/Online Log Display Menu screen, press the CLEAR key. If you press the PF1 key (HELP), you will see brief instructions and descriptions of each selection listed on the menu.

Pressing the PF2 key (SHOW) produces the SHOW screen. The screen includes current parameter settings and defaults, PF key settings, and the number of requests for detail made in the current CA-IDMS/Online Log Display session.

The SHOW screen is described later in 2.14, “SHOW Screen” on page 2-23. On the SHOW screen, you can specify a new date,time, or logical terminal by entering the appropriate command on the command line.

SELECT TYPE OF DISPLAY--Type the number of your selection in this field.

ARCHIVED--Enter **Y** (Yes) to indicate that archived records (records offloaded from the active CA-IDMS DC log) are to be displayed. Enter **N** (No) to suppress archived records. The default value is N(o).

LOG OBTAIN LIMIT--Enter a number in this field to limit the number of records read from the log in a given transaction.

For example, if you select the STATISTICS option (Option 2), type in 500 in the LOG OBTAIN LIMIT field, and press the ENTER key, CA-IDMS/Online Log Display will search the first 500 records in the log. If 20 statistics events are found in the first 500 records, the first EVENT screen will show them. The DOWN command causes CA-IDMS/Online Log Display to continue searching the log, until the screen fills again, or the LOG OBTAIN LIMIT is reached. If 500 OBTAINS result in less than 20 statistics events, the events which were found (if any) will be displayed on the screen.

In the same example, if you enter DOWN after the LOG OBTAIN LIMIT is reached, CA-IDMS/Online Log Display searches the next 500 records in the log for statistics events.

If you have entered a date, time, or logical terminal and there are no statistics records for that enter in the 500 records being searched, a message will appear in the message area: LOG OBTAIN LIMIT REACHED. You can enter a DOWN command to search the next 500 log records.

If no number is entered in this field, the search will continue until the next 20 events are displayed or until the end of the log is reached.

Message Area--The message area is immediately below the LOG OBTAIN LIMIT field. See Chapter 5, "Messages" on page 5-1 for the reason each message occurs and possible actions.

```

          CCCCCCCC
          CCCCCCCC
          CCC
          CCC   AAAA           Online Log Display
          CCC   AAAAA
          CCC   AAAAAA        RELEASE   Rnn.nn
          CCC   AAA AAA
          CCC   AAA AAA
          CCAAACCCCC          SELECT TYPE OF DISPLAY ==>
          AAACCCCCC
          AAA   AAA           1. IDMS-DC MESSAGES
          AAA   AAA           2. STATISTICS
          AAA   AAA           3. USER TRACE
                               4. SNAP/DUMP
                               5. ALL LOG EVENTS
          (Y-YES, N-NO) ARCHIVED ==> N
          LOG OBTAIN LIMIT =====> 0000000
          LOGD002I-ENTER REQUEST
          CLEAR-EXIT           PF1-HELP           PF2-SHOW PROFILE
          COPYRIGHT (C) 1981, 1988, 1996 COMPUTER ASSOCIATES INTERNATIONAL, INC.

```

Figure 2-5. Menu Screen

2.6 ALL LOG EVENTS Screen

An example of the display you will see when you select ALL LOG EVENTS from the Menu screen is shown below. Because this example shows each type of event, it represents any of the screens seen at the Event level.

You can use the DATE command and the TIME command to begin all displays at a specific date or time. You can use the LTE command to list only those events which were recorded from a specific logical terminal. Use the DETAIL command with cursor position to view a detailed display of a specific event.

Event Date--The date of the log event in the format *yymmdd*. Events are usually displayed in date-time sequence. CA-IDMS/Online Log Display begins processing on the first log page encountered on which an event meets the selection criteria. However, CA-IDMS/Online Log Display may process events from more than one start-up of the CV. Each time the CV starts up, the log is written to the first available log page (empty or containing archived records).

Event Time--The time of the log event in the format hh:mm:ss.

LTERM ID--The logical terminal identifier for each log event.

Event--Description of log event or text of CA-IDMS DC message.

The LOG EVENTS screen shown below displays examples of the following events:

CA-IDMS DC Messages--The CA-IDMS DC code and message.

Statistics Descriptions--These descriptions identify the type of statistics which have been written to the log.

SNAP/DUMP Descriptions--These descriptions identify the dump events that have been written to the log.

User Trace Descriptions--These descriptions identify the user traces that have been performed and written to the log.

```
==>
LOGD002I-ENTER REQUEST          LOG EVENTS - ALL TYPES          mm-dd-yy hh:mm:ss
                                CA, INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+..
990416 11:27:20 VTAMLT01 IDMS DC268007 V181 USER:USE11 TRACE PARAMETER ACCEPT
990416 11:34:13 VTAMLT03 IDMS DC258003 V181 USER BOAMA01 SIGNED ON LTERM VTAML
990416 12:43:19 VTAMLT01 IDMS DC259001 V181 USER USE01 SIGNED OFF LTERM VTAML
990416 12:43:19 VTAMLT01 IDMS DC258003 V181 USER USE01 SIGNED ON LTERM VTAML0
990416 12:44:48 VTAMLT01 IDMS DC259001 V181 USER USE02 SIGNED OFF LTERM VTAML
990416 12:44:48 VTAMLT01 IDMS DC258003 V181 USER USE02 SIGNED ON LTERM VTAML0
990416 12:44:55 VTAMLT01 SYSTEM WIDE STATISTICS
990416 12:44:55 VTAMLT01 STATISTICS FOR TASK CODE: ADAI
990416 12:44:55 VTAMLT01 STATISTICS FOR TASK CODE: ADS
990416 12:44:55 VTAMLT01 STATISTICS FOR TASK CODE: ADSA
990416 12:44:55 VTAMLT01 STATISTICS FOR TASK CODE: ADSALIVE
990416 12:44:55 VTAMLT01 RCE IS AT 001BBED0 0141001 000002B2 00000180 0000023
990416 12:44:55 VTAMLT01 RCE IS AT 001BDE50 0141001 000002B2 00000040 0000001
990416 12:44:55 VTAMLT01 RCE IS AT 001BB600 0140001 000002B2 00000080 0500201
990416 12:44:55 VTAMLT01 CSA ADDRESS IS 109FD0
990416 12:44:55 VTAMLT01 USER TRACE FOR PROGRAM NAME: RHDCOMTC
990416 12:44:55 VTAMLT01 USER TRACE FOR PROGRAM NAME: RHDCOMTC
990416 12:44:55 VTAMLT01 USER TRACE FOR PROGRAM NAME: USKMENU
990416 12:44:55 VTAMLT01 USER TRACE FOR PROGRAM NAME: USKMENU
990416 12:44:55 VTAMLT01 USER TRACE FOR PROGRAM NAME: USKMENU
990416 12:44:55 VTAMLT01 STATISTICS FOR TASK CODE: LOGD
```

Figure 2-6. ALL LOG EVENTS Screen

2.7 SYSTEM WIDE STATISTICS Detail Screen

The SYSTEM WIDE STATISTICS screen is shown below. It contains a description of the statistical data, together with the occurrence counts of the statistical data. The statistics for USRMOD TIM and SYSMOD TIM are given in the format *hh:mm:ss:ttt* where *hh* is the hour and *mm:ss:ttt* is the minutes, seconds, and thousandths of seconds.

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG STATISTICS          001 OF 002   CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>

<===== SYSTEM WIDE STATISTICS =====>
( PUTJRNLS)-----0 (PGPOOL LDS)-----5 (PGPOOL WTS)-----0
(PGPOOL PGS)-----47 (QUEUE GETS)-----66 (QUEUE PUTS)-----48
(QUEUE DELS)-----49 (AUTOST TSK)-----0 (SCR GETS )-----1027
(SCR PUTS )-----4301 (SCR DELS )-----4067 (STG GETS )-----29684
(STG FREES )-----28500 (STG PASS 1)-----22370 (STG PASS 2)-----1154
(STG PASS 3)-----6160 (TIME GETS )-----153888 (SETIM WTS )-----0
(SETIM PSTS)-----1580 (SETIM TSKS)-----42 (SETIM CNLS)-----1621
(TOT SYSTSK)-----518 (USRMOD TIM)-00:00:13:598 (SYSMOD TIM)-00:00:37:612
(PGS READ )-----1165 (PGS WRITTN)-----97 (PGS RQSTD )-----7907
(CLC NOFLOW)-----48 (CLC OFLOW )-----0 (VIA NOFLOW)-----60
(VIA OFLOW )-----2 (REC RQSTD )-----8489 (REC CUR RU)-----6284
(DB CALLS )-----12550 (FRGS STRD )-----0 (REC RELO )-----0
(TSKS ABNDS)-----0 (SYSTSKS AC)-----0 (TSKS ACTIV)-----0
(TSKS MAX )-----0 (TSKS RNWY )-----0 (SYSTSKS PR)-----192
(STG SHORT )-----0 (TKS STK HI)-----610 (RLES USED )-----0
(RCES USED )-----0 (DPES USED )-----0 (RNTPOOLLDS)-----77
(RNTPOOLWTS)-----0 (RNTPOOLPGS)-----1718 (TOT PGR RQ)-----0
(TOT# PGS FRD)-----0 (RLE THR EX)-----0 (RCE THR EX)-----0
(DPE THR EXC)-----0 (X PGMP LDS)-----0 (X PGMP WTS)-----0

```

Figure 2-7. SYSTEM WIDE STATISTICS Detail Screen

2.8 Statistics Detail Screens

Statistics detail screens showing several types of statistics are illustrated in the following figures.

```

==>
LOGD002I-ENTER REQUEST      ONLINE LOG STATISTICS      mm-dd-yy hh:mm:ss
                             001 OF 001      CA,INC.
<...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+...>

<===== DESCRIPTION OF STATISTICS BY PHYSICAL TERMINAL =====>
  PHYSICAL TERMINAL NAME: VTAMPT01      TOTAL NUMBER OF READS:  -----225
                                           TOTAL NUMBER OF WRITES:  -----314
                                           TOTAL NUMBER OF READ ERRORS: -----0
  TOTAL NUMBER OF WRITE ERRORS:  -----0
                                           TOTAL NUMBER OF RESPONSES: -----225
                                           CUMULATIVE RESPONSE TIME:  00:08:49:570
                                           CUMULATIVE I/O TIME:      00:00:00:000
  END OF STATISTICS

```

Figure 2-8. DESCRIPTION OF STATISTICS BY PHYSICAL TERMINAL Screen

```

<===== DESCRIPTION OF STATISTICS BY LINE =====>
  LINE NAME:  VTAMLINE      TOTAL READS:  -----226
                                           TOTAL WRITES:  -----315
                                           TOTAL READ ERRORS: -----0
                                           TOTAL WRITE ERRORS: -----0
  END OF STATISTICS

```

Figure 2-9. DESCRIPTION OF STATISTICS BY LINE Screen

```

==>
LOGD002I-ENTER REQUEST      ONLINE LOG STATISTICS      mm-dd-yy hh:mm:ss
                             001 OF 001      CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>

<===== DESCRIPTION OF STATISTICS BY PROGRAM =====>
PROGRAM NAME:  USKMENU      TOTAL TIMES CALLED:  -----65
                             TOTAL TIMES LOADED:  -----9
                             TOTAL TIMES WAITING TO LOAD:  -----0
                             TOTAL TIMES PROGRAM CHECKED:  -----0
                             END OF STATISTICS

```

Figure 2-10. DESCRIPTION OF STATISTICS BY PROGRAM Screen

```

==>
LOGD002I-ENTER REQUEST      ONLINE LOG STATISTICS      mm-dd-yy hh:mm:ss
                             001 OF 001      CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>

<===== DESCRIPTION OF STATISTICS BY TASK CODE =====>
TASK CODE:  LOGD      TOTAL TIMES TASK CODE WAS INVOKED:  -----45
                             END OF STATISTICS

```

Figure 2-11. DESCRIPTION OF STATISTICS BY TASK CODE Screen

```

==>
LOGD002I-ENTER REQUEST      ONLINE LOG STATISTICS      mm-dd-yy hh:mm:ss
                             001 OF 001      CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>

<===== DESCRIPTION OF STATISTICS BY QUEUE =====>
QUEUE NAME:  BDIANOT-TRIGGER      TOTAL TIMES AUTOTASK STARTED:  -----0
                             END OF STATISTICS

```

Figure 2-12. DESCRIPTION OF STATISTICS BY QUEUE Screen

2.9 TRANSACTION WIDE STATISTICS Detail Screen

A TRANSACTION WIDE STATISTICS Detail screen is shown below. It contains a description of the statistical data, together with the occurrence counts of the statistical data. The statistics for USER MODE TIME and SYSTEM MODE TIME are given in the format *hh:mm:ss:ttt* where *hh* is the hour and *mm:ss:ttt* is the minutes, seconds, and thousandths of seconds.

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG STATISTICS      001 OF 002   CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>

<===== DESCRIPTION OF TRANSACTION WIDE STATISTICS =====>
STATISTICS BLOCK ID: DVJRF          VTAMLT01
USER ID: DVJRF                      LTERM ID: VTAMLT01
(TOT # PROGRAMS CALLED )-----0 (TOT # PROGRAMS LOADED )-----0
(TOT # TERMINAL READS  )-----0 (TOT #TERMINAL WRITES )-----0
(TOT # TERMINAL ERRORS )-----0 (TOT # GETSTG RQSTS   )-----2
(TOT # GETSCR RQSTS    )-----0 (TOT # PUTSCR RQSTS   )-----0
(TOT # DELSCR RQSTS    )-----0 (TOT # GETQUE RQSTS   )-----0
(TOT # PUTQUE RQSTS    )-----0 (TOT # DELQUE RQSTS   )-----0
(TOT # GETTIME RQSTS   )-----6 (TOT # SETTIME RQSTS  )-----0
(TOT DATA BASE RQSTS )-----0 (STACK HIGH WATER MARK)-----427
(TASK USER MODE TIME  )-00:00:00:001 (TASK SYSTEM MODE TIME)-00:00:00:000
(TASK WAIT TIME       )-00:00:00:004 (TOT # PAGES READ    )-----0
(TOT # PAGES WRITTEN  )-----0 (TOT # PAGES RQSTD   )-----0
(TOT # CALC RECS NO/OFLOW)-----0 (TOT # CALC RECS W/OFLOW)-----0
(TOT # VIA RECS NO/OFLOW)-----0 (TOT # VIA RECS W/OFLOW )-----0
(TOT # RECS RQSTD     )-----0 (TOT # RECS CURR OF R-U )-----0
(TOT # FRAGMENTS STORED )-----0 (TOT # RECS RELOCATED )-----0
(TOTAL NUMBER OF LOCKS )-----0 (TOTAL # OF SELECT LOCKS)-----0
(TOTAL # OF UPDATE LOCKS)-----0 (TSK STG HIGH WATER MARK)-----9792

```

Figure 2-13. TRANSACTION WIDE STATISTICS Detail Screen

2.10 CA-ADS STATISTICS BLOCK BY DIALOG Screen

An ADS STATISTICS BLOCK BY DIALOG screen is shown below. It contains descriptions of the statistical data and gives occurrence counts of the data. See Appendix A, "Abbreviations" on page A-1 for a description of the statistics abbreviations on the screen.

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG STATISTICS      001 OF 001   CA,INC.
<...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+...>

<===== ADS STATISTICS BLOCK BY DIALOG =====>
DIALOG NAME:  ATDMEN01          DIALOG VER:  3
USER ID:     DVJRF             LTERM ID:   VTAMLT01
(TSB BD DTE)-99106          (TSB BD TIM)-09:30:03:355
(EX DSP CMND)-----1 (EX DSP CNT)-----0 (EX INVOKE)-----0
(EX LNK DILG)-----0 (EX LNK PGM)-----4 (EX RETRN)-----0
(EX RETRN CT)-----0 (EX TRANSFR)-----0 (EX LEVE AD)-----1
(EX LEVE APL)-----0 (EXP ABORTS)-----0 (IM DSP CMD)-----1
(IM INVOKE)-----0 (IM LK DILG)-----0 (IM LNK PGM)-----0
(IM RETURN)-----0 (IM RTRN CT)-----0 (IM TRANS)-----0
(IM LEVE AD)-----0 (IM LEVE AP)-----0 (IM ABORT)-----0
(PRMP PRO EXC)-----1 (RS PRO EXC)-----2 (ST ACC CAL)-----7
(EX SCR GETS)-----0 (EX SCR PUT)-----0 (EX SCR DEL)-----0
(WRT PRT CMND)-----0 (PUT NW DET)-----0 (PUT CR DET)-----0
(GET DET CMND)-----0 (SIZE OF FDB)-----0 (SIZE OF VDB)-----0
(HGH LNK LEVL)-----0 (LW LNK LEV)-----0 (RB PUT SCR)-----0
(MST STG USED)-----0 (MT FRE SPC)-----0 (LT STG USE)-----0
(LST FRE SPC)-----0 (MT SPC ACQ)-----0 (LT SPC ACQ)-----0
(HIGH RBB USE)-----1 (LW RBB USE)-----1
                                END OF STATISTICS

```

Figure 2-14. CA-ADS STATISTICS BLOCK BY DIALOG Screen

2.11 USER TRACE Detail Screen

The USER TRACE Detail screen is shown below. The information on the screen includes:

LTERM--The logical terminal identifier.

PGM--The name of the program being traced.

VERB #--Services requested. The verb number and the verb description are displayed.

DMLSEQ--The occurrence number of the verb in the user program (if DML verbs were counted by the DML preprocessor).

REGS--The content of the 16 general purpose registers (registers 0 through 15, from left to right on the screen).

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG USER TRACE      mm-dd-yy hh:mm:ss
                                001 OF 250      CA,INC.
<...+....1....+....2....+....3....+....4....+....5....+....6....+....7....+...>
                                TOP OF LOG TRACE

LTERM: VTAMLT01  PGM: USKEVNT  VERB #: 28          IDMSINTD  DMLSEQ: 00000000

REGS:
0-7 00000008 050A042C 050A03C8 050A0288 05375FC8 053766FC 053769A1 05376DF3
8-F 053761F8 047D8C00 00048070 053763DC 847D6C00 047D7C00 047D8436 006C6690

LTERM: VTAMLT01  PGM: USKEVNT  VERB #: 15          AREC RTN  DMLSEQ: 00000000

REGS:
0-7 0000000F 053760FC 050A03C8 050A0288 05375FC8 053766FC 053769A1 05376DF3
8-F 053761F8 047D8C00 00048070 053763DC 847D6C00 047D7C00 047D8510 006C6690

LTERM: VTAMLT01  PGM: USKEVNT  VERB #: 28          IDMSINTD  DMLSEQ: 00000000

REGS:
0-7 00000008 050A042C 050A03C8 050A0288 05375FC8 053766FC 053769A1 05376DF3
8-F 053761F8 047D8C00 00048070 053763DC 847D6C00 047D7C00 047D8436 006C6690

```

Figure 2-15. USER TRACE Detail Screen

2.12 PROGRAM Dump Detail Screen

A sample detail screen for a program dump is shown below.

Event--The name and location of the event.

Addresses--Memory locations included in the resource control element.

Hex Display--Hexadecimal display (16 bytes) of data at the address (which is listed in the left column).

Character Display--Character display of data at the address (which is listed in the left column).

```

==>
LOGD026W-AT PAGE FILE LIMIT ONLINE LOG SNAP/DUMP 001 OF 250 CA,INC.
<...+...1... +...2...+...3...+...4...+...5...+...6...+...7...+...>
TOP OF LOG DUMP
mm-dd-yy hh:mm:ss
RCE IS AT 001BACB8 01490001 00000155 00001700 00698140 00000000 001C6A20
98140 001BACB8 00000155 E5C2F5F0 00000005 *.....VB50....*
98150 006D23C8 006D2456 006D2520 006D2532 *_.H._..._...*
98160 006D246E 00000000 00000000 00000000 *_.>.....*
98170 00000000 0000056C 055707C8 046E0800 *.....%...H.>..*
98180 006996A4 00699718 00000000 00000000 *..ou..p.....*
98190 00000000 00000000 00000000 00000000 *.....*
981A0 00010000 00000000 00169BC0 00000000 *.....*
981B0 00000000 00000000 0553483C 0553483C *.....*
981C0 0553483C 006984E0 00698288 006982D4 *.....d...bh..bM*
981D0 05534894 00000000 00000000 4040C100 *..m.....A.*
981E0 00000000 00000000 0000FF08 E2E8E2E3 *.....SYST*
981F0 C5D44040 00000000 046E09E8 046E0978 *EM.....>.Y.>..*
98200 006996B4 F0F0F0F0 00000000 00753201 *..o.0000.....*
98210 E4E2D2C5 E5D5E340 00000000 046E09E8 *USKEVNT.....>.Y*
98220 046E09E8 046E09E8 00000022 00000000 *.>.Y.>.Y.....*
98230 00000000 046E09E8 006996EC 046E0800 *.....>.Y..o..>..*
98240 046E0800 00000000 00000000 0000003B *.>.....*
98250 30251322 00000000 00000000 00753201 *.....*
98260 046E09E8 00000000 01000000 00000000 *.>.Y.....*

```

Figure 2-16. PROGRAM Dump Detail Screen

2.13 TRACE Dump Detail Screen

A typical Trace Dump Detail Screen is shown below.

Description Line--The logical terminal element (LTE), physical terminal element (PTE), physical line element (PLE), and DDNAME which were used for the task.

Address--The locations of the data associated with the physical terminal after each I/O.

Hex Display--Hexadecimal display (16 bytes) of data at the address (which is listed in the left column).

Character Display--Character display of data at the address (which is listed in the left column).

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG SNAP/DUMP          04-16-99 11:28:21
                                001 OF 006 CA,INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...>
                                TOP OF LOG DUMP
*** LTE:VTAMLT01-PTE:VTAMPT01-PL:VTAMLN- DDNAME: _____
END OF SNAP                      ->Description Line
TCE:
001570B0      E3C3C55C  00000000  801AB490  001AB670  *TCE*.....*
001570C0      801570C0  001570C0  801570C8  001570C8  *.....H...H*
001570D0      801AB418  001AB484  00000000  00000000  *.....d.....*
001570E0      00000000  00155FF0  801C6AB0  001C6AB0  *.....0.....*
001570F0      00000000  7FFFFFFF  000D0002  00000000  *.....".....*
00157100      00000000  00000000  00000000  00000000  *.....*
00157110      00000000  00000000  00000000  00000000  *.....*
00157120      00000000  001582D0  00000000  80000000  *.....b .....*
00157130      00010000  00C00020  00000000  00000000  *.....*
00157140      00000000  00000000  00000000  00000000  *.....*
00157150      1A000000  00048338  00155FF0  06000000  *.....c....0....*
00157160      05381E48  00000000  00000000  00000000  *.....*
00157170      00000000  00000000  00000000  00000000  *.....*
00157180      00000000  001573D0  845E4D58  04637058  *..... d;(.....*
00157190      00000000  00000000  00000000  00000000  *.....*
001571A0      00000000  00000000  00000000  00000000  *.....*
001571B0      00000000  00000000  00000000  00000000  *.....*

```



Figure 2-17. TRACE Dump Detail Screen

2.14 SHOW Screen

A SHOW screen is shown below.

The SHOW screen displays a list of PF key settings, a list of the number of times a detail display of an event was requested at this session, the number of the current DC log database page, and a list of current parameter settings and default values.

You can change the values of the session parameters by entering commands from this screen: HELP, EXIT, VIEW, DATE, TIME, LTE, and FIND. Use the CLEAR key or the EXIT command to exit to the previous screen.

SESSION DISPLAYS--The numbers show how many dump requests have been formatted, how many trace requests have been formatted, and how many statistics requests have been formatted during this session.

CURRENT DC LOG PAGE NUMBER--The number of the current database page in the DC log area (the page from which CA-IDMS/Online Log Display is currently reading). From an event screen, you can start the next log search by entering the LPSTART command followed by a number within the valid page range of the DC log database area.

The following session parameters can be altered by entering commands from the SHOW Screen:

VIEW AMOUNT--The number of the left column of the screen display on an event screen.

Default: Column 1.

SEARCH DATE--Only events written to the log on or after this date will be displayed during the session.

Default: Earliest date in the log.

SEARCH TIME--Only log events written to the log at or after this time will be displayed.

Default: Earliest time in the log, on the search date.

SEARCH LTE--Only log events written to the log from the specified terminal will be displayed. If an asterisk was entered in the LTE command, the logical terminal for the current session is shown in this field.

Default: All terminals.

SEARCH STRING--The string entered in the last FIND command.

SEARCH FROM COLUMN--The left column of the search for a string.

Default: Column 1.

SEARCH TO COLUMN--The right column of the search for a string.

Default: Column 278.

PF Key Table--The PF key assignments.

Amount--The number of lines or the number of columns the window will scroll when the PF key is pressed.

```

==>
LOGD002I-ENTER REQUEST          ONLINE LOG SYSTEM PROFILE          mm-dd-yy hh:mm:ss
                                  CA, INC.
<...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...

SESSION DISPLAYS
-----
FORMATTED DUMP REQUESTS:      001          1/13    HELP
FORMATTED TRACE REQUESTS:    001          2/14    SHOW
FORMATTED STATISTICS REQUESTS: 002          3/15    DETAIL
                                  4/16    RETURN
CURRENT DC LOG PAGE NUMBER: 000030711      5/17    RFIND
-----
                                  7/19    UP          20
                                  8/20    DOWN       20
SESSION PARAMETERS
-----
                                  10/22   RIGHT      79
                                  11/23   LEFT       79
VIEW AMOUNT:                   001          CLEAR    EXIT
SEARCH DATE:                    990416
SEARCH TIME:                     103000
SEARCH LTE:
SEARCH STRING:
SEARCH FROM COLUMN:   000
SEARCH TO COLUMN:    000
-----

```

Figure 2-18. SHOW Screen

Chapter 3. Commands

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3.1 VIEW LOG EVENTS OR DETAILS

From the CA-IDMS/Online Log Display Menu screen, you can select a comprehensive screen showing every run-time event which has been written to the log, or you can select CA-IDMS messages, dump events, statistics events, or trace events. If you need more information about a specific event, you can proceed to a detailed display of a program or dialog dump, a trace dump, a user trace, or statistics.

3.2 CA-IDMS/Online Log Display Commands

You control CA-IDMS/Online Log Display by entering commands in the command area of the screen or by pressing the corresponding PF keys. The commands allow you to move between the menu, event, and detail levels; to change the position within the log to begin searching for events; to search for specific information; and to window within the section of the log being displayed.

CA-IDMS/Online Log Display is controlled by three types of commands:

3.2.1 Session Commands

Session commands allow you to select the screen you want to see. From an event screen, you can move to a more detailed display or you can exit to the menu, where you can choose another mode of display or exit to CA-IDMS DC. From any screen, you can request either an online review of the commands available for use at the current level or a list of PF keys and the current parameter settings.

3.2.2 Windowing Commands

Windowing commands move the physical "window" (your terminal screen) so that you can view records that exceed the normal screen size or you can view records above or below those currently displayed on the screen.

3.2.3 Search Commands

Search commands are used to search for literal information contained in the log, such as specific CA-IDMS message occurrences, dumps, control block titles, CA-IDMS statistics, dates, times, and logical terminal identifiers.

3.2.4 Program Function Keys

PF keys make it easy to scroll through the log or search for specific items. They are set for many commonly used commands.

3.2.5 Notation Conventions and Syntax Rules

Before using the CA-IDMS/Online Log Display commands, be sure to review the Notation Conventions and Command Syntax Rules figures below.

3.2.6 Entering Commands

CA-IDMS/Online Log Display commands are entered on the command line at the top of the screen. PF keys can be pressed when the cursor is at any position on the screen.

3.2.7 Command Summaries

Summary figures of the commands and the PF keys are shown below.

Figure 3-1. Notation Conventions

Example	Function
<u>P</u> Down	Keywords appear in mixed case. The minimum required portion of each keyword is in UPPERCASE.
Find <i>'string'</i>	Variables appear in lowercase italics. You must substitute an appropriate value for each variable.
[number-of-lines]	Brackets indicate optional clauses.
{ Up Down}	Braces enclose two or more options. You can select one of them.

Figure 3-2. Command Syntax Rules

Item	Rule
Order of Commands	You can enter CA-IDMS/Online Log Display commands in any order.
Entering Delimiters in Commands	Do not embed blanks within a keyword or a value field. Enter a blank between a command and its operand. Example: VIEW 25 Enter blanks between optional parameters after a command. Example: FIND 'abc' 25 40
Entering Dates and Times	You must enter leading and trailing zeros in dates and times.
Use of Symbols	A character string in a FIND command must be enclosed in a single or double quotation marks.

Figure 3-3 (Page 1 of 2). Command Function Summary

Command	Function
	Session
HELP	Display a summary of the command syntax, PF keys, and functions.
SHOW	Display PF key assignments, and current values of variables.

Figure 3-3 (Page 2 of 2). Command Function Summary

Command	Function
DETAIL	Display the details of a dump, trace, or statistics event.
LPSTART	Starts search on specific database page in CA-IDMS DC log area.
RETURN	Return to menu from detail display or from event display.
EXIT	Exit to the menu from an event screen, or exit to the previous event screen from a detail screen.
Windowing	
UP	On event screens, display lines that are above those you are currently viewing.
DOWN	On event screens, display lines that are below those you are currently viewing.
MAX	Scroll to the beginning, end, extreme left, or extreme right of the current log (use with UP, DOWN, LEFT, RIGHT, PUP, or PDOWN).
LEFT	On event screens, display columns to the left of those you are currently viewing.
RIGHT	On event screens, display columns to the right of those you are currently viewing.
VIEW	One event screens, specify the left column of the window to be displayed.
PUP	On detail screens, move the window up by pages.
PDOWN	On detail screens, move the window down by pages.
Search	
DATE	Search events for information logged on or after a specified date.
TIME	Search events for information logged at or after a specified time.
LTE	Search events for a specified logical terminal id.
FIND	Search for a string (within specified column boundaries).
RFIND	Repeat the previous FIND command.

Figure 3-4 (Page 1 of 2). Program Function Key Summary

Control Key	Command	Function
CLEAR	EXIT	Exit to the next higher level of processing: exit to the menu from an event screen, exit to an event screen from a detail screen, or exit to CA-IDMS DC from the menu.

Figure 3-4 (Page 2 of 2). Program Function Key Summary

Control Key	Command	Function
1 or 13	HELP	Display a summary of command syntax, functions, and PF keys.
2 or 14	SHOW	Display PF key settings, current parameter values, and number of requests for detail displays.
3 or 15	DETAIL	Show detailed display of specific log event.
4 or 16	RETURN	Return to menu from detail screen or from event screen.
5 or 17	RFIND	Repeat the previous FIND command.
7 or 19	UP or PUP	Scroll to display lines or pages above the current display.
8 or 20	DOWN or PDOWN	Scroll to display lines or pages below the current display.
10 or 22	LEFT	Scroll to display columns to the left of the current display.
11 or 23	RIGHT	Scroll to display columns to the right of the current display.

3.3 Session Commands

The Session Commands allow you to move from one screen display to another.

3.3.1 HELP Command

Help

Use the HELP command (or PF 1/13) to display a review of the commands and PF keys which can be used from the current screen.

From the menu, the HELP screen displays brief descriptions of the selections available.

3.3.2 SHOW Command

Show

Use the SHOW command (or PF 2/14) to display a review of PF key functions, current defaults, and user specifications. You can change Session Parameters from the SHOW screen.

3.3.3 Detail Command (Events Screens)

Detail

After you select an event screen from the menu, you can use the DETAIL command to display the detailed contents of a dump, statistics, or trace event.

You can select a specific event by entering the DETAIL command, placing the cursor on any character in a message line, and pressing the ENTER key (or by positioning the cursor and pressing PF3/15). If the message does not describe a dump, statistics, or trace event, CA-IDMS/Online Log Display redisplay the messages.

From the DUMP Events, Statistics Events, or Trace Events screen, the DETAIL command displays detail for the event described by the message line where the cursor is positioned. If the cursor is on the command line, the event at the top of the screen will be selected.

Typical screen displays are illustrated and described in Chapter 2, "Session" on page 2-1.

3.3.4 DUMP Details

Two types of detailed DUMP displays are available:

- **Program Dump**--A dump of a program component such as a resource control element (RCE), a task control element (TCE), or a logical terminal element (LTE). The program dump must have been written previously to the log, either because the SNAP utility requested that a snapshot be put into the CA-IDMS DC log, or

because there was an automatic snap to the CA-IDMS DC log in response to an error condition in a program.

- **Trace Dump**--A dump of a trace component such as a logical terminal element (LTE), a physical terminal element (PTE), or a physical line element (PLE). A trace dump shows the sequence of data elements sent and received through DC system software to a terminal device. The trace dump must have been previously written to the log using the master terminal operator function initiating and providing control over physical I/O tracing.

3.3.5 STATISTICS Details

The STATISTICS option allows you to view occurrence counts written to the log at normal system shutdown, as defined in the sysgen. The statistics can also be written to the log because of a DCMT WRITE STATISTICS command.

3.3.6 TRACE DETAILS

A **User Trace** shows the sequence of service requests related to DML calls in user programs. Traces must have been written previously to the log from a user trace facility.

3.3.7 LPSTART Command (Event Screens)

LPStart log-page-number

The LPSTART command allows you to start a new search for events at a database page other than the database page at the beginning of the DC log area. When you key in LPSTART followed by a log page number and press the ENTER key, the next log search begins at that page.

If you do not know the number of the current DC log database page, you can find it displayed on the SHOW screen (PF2/14).

Rules:

- *log-page-number* must be an integer from 1 through 999999999 (up to nine digits).
- *log-page-number* must be within the valid page range of the DC log database area.

Default: The first page of the DC log database area.

3.3.8 RETURN Command (Detail and Event Screens)

REturn

The RETURN command allows you to return from a detail screen directly to the menu, without viewing an event screen.

If you enter the RETURN command from an event screen, the display returns directly to the menu.

3.3.9 EXIT Command (Detail and Event Screens)

Exit

Use the EXIT command or the CLEAR key to exit to the previous level of processing.

From the event screens, use the EXIT command to return to the menu. You can then select another display mode or exit to CA-IDMS DC. From the LOG DISPLAY MENU, use the CLEAR key to exit to CA-IDMS DC.

From a detail screen, use the EXIT command to return to the previous event screen, with the previously selected event at the top of the screen.

3.4 Windowing Commands

Windowing Commands allow you to shift your view up, down, or sideways through the log.

3.4.1 UP and DOWN Commands (Event Screens)

```
{Up      [{number-of-lines
DOWn}   Max}]
```

Where:

number-of-lines — Scroll UP or DOWN a specified number of lines from 1 to 32767. PF keys cannot be used with *number-of-lines*.

MAX — Scroll UP or DOWN to view the beginning (UP) or end (DOWN) of the current log. You also can type **M** and press PF7/19 for UP or PF8/20 for DOWN.

On the event screens, you use the UP and DOWN commands to display lines in the log above or below those you are currently viewing. They can be used alone to shift the window one screen.

UP and DOWN can also be entered followed by a number of lines or MAX. MAX is used in conjunction with UP or DOWN to scroll to the beginning or end of the current log.

3.4.2 LEFT and RIGHT Commands (Event Screens)

```
{LEft   [{number-of-columns
RIGHt}  Max}]
```

Where:

number-of-columns — Scroll to the LEFT or RIGHT a specified number of columns from 1 to 201. PF keys cannot be used with *number-of-columns*.

MAX — Scroll to the extreme LEFT or RIGHT of the display. You can also type **M** in the command area and press PF10/22 for LEFT or PF11/23 for RIGHT.

The event screen window can be moved horizontally by using the LEFT or the RIGHT command, or a corresponding PF key.

The LEFT command moves the window toward the first column of the event display. The RIGHT command moves the window toward the last column of the event display. Each command can be used alone to shift the window one screen sideways. LEFT or RIGHT can also be entered followed by a number-of-columns or by MAX. MAX is used in conjunction with LEFT or right to move the window to the first column or the last column.

3.4.3 VIEW Command (Event Screens)

View column-number

Where: **column-number** — The column which will become the left side of the display.

The VIEW command can be used only from the event screens. It allows you to specify the left column of the window which you want to view.

Rule:

- The number must be between 1 and 202, inclusive. If a number larger than 202 is entered, the screen will show columns 202-280.

3.4.4 PUP and PDOWN Commands (Detail Screens)

{PUp [{number-of-pages
PDown} Max}]

Where:

number-of-pages — Scroll up or down a specified number of pages from 1 to 250. PF keys cannot be used with number-of-pages.

MAX — Scroll up or down to view the beginning (PUP) or end (PDOWN) of the current event detail display. You can also type **M** in the command area and press PF7/19 for PUP or PF8/20 for PDOWN.

On the detail screens, you use the PUP and PDOWN commands to move the window pages above (PUP) or below (PDOWN). Your current screen location is displayed near the top of the detail screen. For example, 002 of 070 means that you are on the second screen of 70 screens.

They can be used alone to move the window up or down one screen. They can also be entered followed by number-of-pages or MAX. MAX is used in conjunction with PUP or PDOWN to scroll to the first or last page of the current display.

3.5 Search Commands

Search commands may be used to locate specific information in the log.

3.5.1 DATE and TIME Commands (Event Screens)

You can limit the number of events displayed by specifying a specific date and/or a specific time. CA-IDMS/Online Log Display will display only that portion of the log which was recorded on or after the specified date and time.

A date or time specified remains in effect during the CA-IDMS/Online Log Display session until you change it.

3.5.2 DATE Command

DAte yymmdd

Where:

yymmdd — The last two digits of the year (yy), the month (mm), and the day (dd), respectively.

"CA-IDMS/Online Log Display assumes if the year is greater than 69 the century is 19; if the year is less than 69 the century is 20".

3.5.3 TIME Command

Time hhmmss

Where:

hhmmss — The hours (hh), minutes (mm), and seconds (ss). For example, 142509 represents 25 minutes and 9 seconds after 2 P.M.

3.5.4 Rules for DATE and TIME

- You must enter leading and trailing zeros in DATE and TIME Commands. Enter the time 9 A.M. as 090000.
- If you enter a time without a date, the time applies to the **current** date, displayed on the right side of the top line of the screen.
- To return an unspecified date or time, enter DATE 000000 or TIME 000000.

3.5.5 LTE Command (Event Screens)

LIe {value
* }

Where:

value — The logical terminal identifier.

* — Indicates the identifier of the logical terminal you are using. If you enter an asterisk, the logical terminal identifier will be displayed on the SHOW screen (PF2/14).

Use the LTE command to limit the display of events to those recorded for one specific logical terminal.

If you enter this command without any value, the display will contain log events recorded from all terminals.

3.5.6 FIND Command

Find 'string' [left-column [right-column]]

Where:

string — A character string to be found in the log. The string must be enclosed in single or double quotation marks.

left-column — The number of the column at the left boundary of the search area. You can specify the left column number without specifying a right column number.

right-column — The number of the column at the right boundary of the search area.

The FIND command, entered with a string, allows you to locate specific information contained in a log. You can limit your search to specific columns by specifying the columns after the string.

From the ALL EVENTS screen, CA-IDMS/Online Log Display searches the entire list of log events and CA-IDMS DC messages. If you are viewing another event screen or a detail display, the utility searches only the selected type of events or the selected detail display.

CA-IDMS/Online Log Display begins searching at the position of the cursor.

Column boundaries remain in effect until another FIND command is entered. When a new FIND command is entered, the boundaries will include the total width of the display, unless new boundaries are specified.

Use the SHOW command (PF 2/14) to see the current column boundaries.

Rules:

- The string can be from 1 to 56 characters long.
- Single or double quotation marks are required at the beginning and end of the string.
- On event screens, column values must be between 1 and 280, inclusive.
- On detail screens, column values must be between 1 and 79, inclusive.
- Enter spaces between FIND and 'string', between 'string' and the left column number, and between the left column number and the right column number. For example, FIND 'TCE' 25 60.

3.5.7 RFIND Command

RFind

Use RFind (or PF5/17) to repeat the last FIND command that was entered. The column boundaries of the FIND command remain in effect.

Chapter 4. Operations

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4.1 System Requirements

System requirements for CA-IDMS/Online Log Display include the operating environment, the terminal type, the database log, the schema and subschema, and security.

CA-IDMS/Online Log Display supports CA-IDMS 15.0

4.1.1 Terminal Type

CA-IDMS/Online Log Display can be used from these terminals:

- IBM 3270 terminal (model 2 only), including the 3279 color display
- Any other 3270-compatible terminal.

4.1.2 Database Log

You must be sure that a DDLDCLOG Area has been initialized and included in the run-time CV, as specified in the sysgen.

4.1.3 Security

Normal CA-IDMS DC security applies. You can limit access to CA-IDMS/Online Log Display by setting security on the task code LOGD.

4.2 How Events and Messages Are Written to the Log

You can view only log events that have been written to the log.

A program dump is written to the log in one of two ways:

- The SNAP utility requested that a snap be put into the CA-IDMS DC log, or
- In response to an error condition in a program there was an automatic snap to the CA-IDMS DC log.

A trace dump is written to the log by using the master terminal function which initiates and controls physical I/O tracing (such as ... VARY PTERM TRACE...).

A system trace dump is defined in the sysgen and written to the log by a SNAP request (such as SYSTRACE).

Statistics are defined in the sysgen. Statistics are also written to the log by using the master terminal function which writes the current system and line statistics (such as ...WRITE STATISTICS).

User traces are written to the log by using the SAVE option of master terminal function or a user function which provides control over the user trace facility by logical terminal (such as ... USERTRACE SAVE ...).

CA-IDMS system messages are written to the log at appropriate times during CV/DC processing.

4.3 CA-IDMS/Online Log Display Modules

CA-IDMS/Online Log Display consists of a group of online modules used to access all or a selected group of DC LOG event records. The load library is concatenated to CDMSLIB in the CV JCL.

4.4 Storage Requirements

CA-IDMS/Online Log Display uses the program pool, the storage pool, and the scratch/queue area.

4.4.1 Program Pool

Because all CA-IDMS/Online Log Display run-time modules are quasi-reentrant, only one copy of CA-IDMS/Online Log Display is required to support multiple users. CA-IDMS/Online Log Display requires 50K of program storage.

4.4.2 Storage Pool

A session storage block is used for communication between CA-IDMS/Online Log Display modules. Each terminal user requires 3800 bytes of the storage pool for this session storage; the session storage is released at the end of the session.

4.4.3 Scratch/Queue Area

Detail displays create a paging file in the scratch/queue area for each user. This file will vary from 1800 bytes to 450,000 bytes (1 to 250 pages), depending on the size of the detail block. This scratch area is released at the end of the detail review.

4.5 Online Documentation Print Utility

The CA-IDMS Online Documentation print utility provided with CA-IDMS/Online Log Display allows error messages and other product information to be printed upon request.

Target or distribution source library member GSIPRINT (OS/390), or TOOLJCL library member GSIPRINT.S (VSE/ESA) or GSIPRINT.STOP (VSE/ESA) contains the JCL to execute the Online Documentation Print Utility.

The online documentation modules for CA-IDMS/Online Log Display processing are shown in the exhibit below. You can print major function modules, together with subordinate modules, in a single execution of GSIPRINT. You can also print subordinate modules individually.

The printed version of the online documentation is presented one screen per page and includes page reference indexes for screen options. Characters highlighted in the online documentation appear bolded in the printed version.

Module Name	Description
USKDUMP	Dump Detail Screen
USKEVNT	Events Screen
USKMSG	CA-IDMS/Online Log Display Messages
USKSHOW	SHOW Screen (Profile)
USKSTAT	Statistics Detail Screen
USKTRACE	Trace Detail Screen

4.6 Customizing CA-IDMS/Online Log Display

You can use the CA-IDMS/Online Log Display Customization macro to change the following operational parameters:

- The task code used to invoke CA-IDMS/Online Log Display.
- The dictionary into which the CA-IDMS/Online Log Display online documentation modules were loaded at installation.

See the CA-IDMS Installation and Maintenance Guide for information on customizing CA-IDMS/Online Log Display under SMP/E (OS/390) or MSHP (VSE/ESA).

Chapter 5. Messages

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5.1 CA-IDMS/Online Log Display Message Format

CA-IDMS/Online Log Display messages are preceded by a unique eight-character code. The message code is in the format *xxxxmns*, where *xxxx* is the identifier of the module issuing the message, *mn* is a message number for the message within the module, and *s* is the severity code for the message. The severity code is either I, W, or E.

5.1.1 Severity Codes

Informative--A message with a severity code of **I** is an informative message. Informative messages are for your information only. No remedial action is required.

Warning--A message with a severity code of **W** is a warning message. A warning message tells you why your command cannot be carried out. Suggested remedial actions are listed for these messages.

Error--A message with a severity code of **E** is an error message. When CA-IDMS/Online Log Display encounters an error condition (usually syntactical), an error message will appear on your screen. Error messages report erroneous and conflicting data that requires action.

This chapter lists the code for each message along with an explanation for each one.

LOGD001I ENTER SELECTION

Reason: The CA-IDMS/Online Log Display Menu has been successfully invoked.

Action: Enter the number of the events screen you want to see.

LOGD002I ENTER REQUEST

Reason: CA-IDMS/Online Log Display is requesting that you enter a command, a selection, or a PF key.

Action: Enter a command from an events screen.

LOGD003I READING LOG, WAIT....

Reason: CA-IDMS/Online Log Display is carrying out your command.

Action: Wait for the next message to appear.

LOGD004I READING, WAIT....

Reason: CA-IDMS/Online Log Display is carrying out your command.

Action: Wait for the next message to appear.

LOGD005I SEARCHING LOG, WAIT....

Reason: CA-IDMS/Online Log Display is searching for a string specified in the FIND command.

Action: Wait for the next message to appear.

LOGD006I SEARCHING, WAIT....

Reason: CA-IDMS/Online Log Display is searching for a string specified in the FIND command.

Action: Wait for the next message to appear.

LOGD007I CHAR STRING FOUND

Reason: The specified string was found. The cursor is at the beginning of the string.

Action: Enter the next command when ready. (Enter RFIND command to search for the next occurrence of the string.)

LOGD008I END OF DATA REACHED

Reason: The end of the log was reached during a search for a string and the string was not located in the current display.

Action: To search for the same string beginning at the top of the log, use the RFIND command. Otherwise, enter a different command.

LOGD009I FORMATTING DUMP, WAIT

Reason: CA-IDMS/Online Log Display is formatting the snap/dump requested with the DETAIL command.

Action: Wait for the next message to appear.

LOGD010I FORMATTING STATS, WAIT

Reason: CA-IDMS/Online Log Display is formatting the statistics display requested with the DETAIL command.

Action: Wait for the next message to appear.

LOGD011I FORMATTING TRACE, WAIT

Reason: CA-IDMS/Online Log Display is formatting the user trace display requested with the DETAIL command.

Action: Wait for the next message to appear.

LOGD012I PURGING DUMP, WAIT....

Reason: The snap/dump file for the detail display is being purged from the scratch/queue area.

Action: Wait for the next message to appear.

LOGD013I PURGING STATS, WAIT....

Reason: The statistics file for the detail display is being purged from the scratch/queue area.

Action: Wait for the next message to appear.

LOGD014I PURGING TRACE, WAIT...

Reason: The user trace file for the detail display is being purged from the scratch/queue area.

Action: Wait for the next message to appear.

LOGD015I OBTAIN LIMIT REACHED - DC LOG PAGE, log-page-number

Reason: A number was specified on the menu in the LOG OBTAIN LIMIT field. That number of records have been obtained. The number of the current page in the DC log area is listed.

Action: Enter UP, DOWN, FIND, or RFIND to continue searching the log for the limited number of records; or enter another command.

LOGD016I OBTAIN LIMIT AGAIN - DC LOG PAGE: log-page-number

Reason: The specified number of records have been obtained. The number of the current page in the DC log area is listed.

Action: Enter UP, DOWN, FIND, or RFIND to continue searching the log for the limited number of records; or enter another command.

LOGD020W NO FUNCTION FOR PFKEY

Reason: The PF key that you pressed does not have a function assigned to it.

Action: See Chapter 3, "Commands" on page 3-1 or enter a HELP command or SHOW command to check which PF key functions are available at this level.

LOGD021W PFKEY NOT ACTIVE

Reason: THE PF key that you pressed is not active for the current screen display.

Action: See Chapter 3, "Commands" on page 3-1 or enter a HELP command to check which PF key functions are available at this level.

LOG022W COMMAND NOT ACTIVE

Reason: The command is not available for the current screen display.

Action: See Chapter 3, "Commands" on page 3-1 or enter a HELP command to check which commands are available at the current level of display (menu, event, or detail).

LOGD023W LOG DUMP NOT FOUND

Reason: CA-IDMS/Online Log Display failed to locate the snap/dump requested with the DETAIL command.

Action: Use the EXIT command to return to the events screen, select the snap/dump information by positioning the cursor, and enter the DETAIL command.

LOGD024W LOG STATS NOT FOUND

Reason: CA-IDMS/Online Log Display failed to locate the statistics requested with the DETAIL command.

Action: Use the EXIT command to return to the events screen, select the statistics information by positioning the cursor, and enter the DETAIL command.

LOGD025W LOG TRACE NOT FOUND

Reason: CA-IDMS/Online Log Display failed to locate the user trace requested with the DETAIL command.

Action: Use the EXIT command to return to the events screen, select the user trace information by positioning the cursor, and enter the DETAIL command.

LOGD026W AT PAGE FILE LIMIT

Reason: The information requested with the DETAIL command exceeded the scrolling file limit of 250 screens.

Action: If the desired detail is not in the current 250 screens, use the EXIT command to return to the events screen. Then select related information further down in the log by positioning the cursor and reentering the DETAIL command.

LOGD027W MESSAGE DISPLAYED

Reason: The line selected with the DETAIL command displays a CA-IDMS system message. Detail is not available for a message.

Action: For a detail display, position the cursor on snap/dump, statistics, or user trace information, and enter a DETAIL command.

LOGD028W EXCLUDE NOT ACTIVE

Reason: The EXCLUDE option of the FIND command is not supported at this time.

Action: Delete EXCLUDE and press the ENTER key to process the FIND command.

LOGD029W TYPE SELECTED NOT FND

Reason: The log file does not contain any events or messages of the type selected from the menu.

Action: Use the EXIT command or the CLEAR key to return to the menu; then use the HELP command or see Chapter 3, "Commands" on page 3-1 to determine how the selected type of events is written to the log. You can also select another event type fro

LOGD040E LOGGING NOT TO DB

Reason: The sysgen LOG statement did not specify the DATABASE option. CA-IDMS/Online Log Display cannot access data that is not written to the DATABASE log.

Action: Use the DATABASE option of the LOG statement for the sysgen.

LOGD041E INVALID TYPE SELECTED

Reason: The number entered is not listed on the menu.

Action: Enter a number that is listed on the menu.

LOGD042E ARCHIVED: MUST BE Y/N

Reason: A character other than Y or N was entered on the line for ARCHIVED RECORDS.

Action: Enter a Y (yes) to display archived log records or an N (no) to suppress archived records from the events display.

LOGD043E VIEW AMOUNT NOT NUM

Reason: The value specified with the VIEW command is not numeric.

Action: Change the value to an integer between 1 and 202, inclusive, and press the ENTER key.

LOGD044E ENTER VIEW AMOUNT

Reason: A value was not specified with the VIEW command.

Action: Enter an integer between 1 and 202, inclusive, and press the ENTER key.

LOGD045E VIEW LENGTH TOO LONG

Reason: The value specified with the VIEW command is more than 3 digits long.

Action: Replace the value with an integer between 1 and 202, inclusive, and press the ENTER key.

LOGD0046E INV DATE (YYMMDD) LEN

Reason: The date value is not in the correct format. Leading or trailing zeros may be missing.

Action: Enter a date in the format *yymmdd*, where *yy* is the last two digits of the year, *mm* is the month, and *dd* is the day.

LOGD047E ENTER DATE (YYMMDD)

Reason: The DATE command was entered without a value or within a delimiting space before the value.

Action: Enter a date in the format *yymmdd*, where *yy* is the last two digits of the year, *mm* is the month, and *dd* is the day.

LOGD048E DATE(YYMMDD) NOT NUM

Reason: One or more non-numeric characters were specified in the DATE command.

Action: Enter a date in the format *yymmdd*, where *yy* is the last two digits of the year, *mm* is the month, and *dd* is the day.

LOGD049E INV TIME (HHMMSS) LEN

Reason: The time value does not have 6 digits. Leading and trailing zeros may be missing.

Action: Enter a time in the format *hhmmss*, where *hh* is the hour, *mm* is the minute, and *ss* is the second. Be sure to use leading and trailing zeros as required.

LOGD050E ENTER TIME (HHMMSS)

Reason: The TIME command was entered without a value or without a delimiting space before the value.

Action: Enter a time in the format *hhmmss*, where *hh* is the hour, *mm* is the minute, and *ss* is the second. Be sure to use leading and trailing zeros as required.

LOGD050E ENTER TIME (HHMMSS)

Reason: The TIME command was entered without a value or without a delimiting space before the value.

Action: Enter a time in the format *hhmmss*, where *hh* is the hour, *mm* is the minute, and *ss* is the second. Be sure to use leading and trailing zeros as required.

LOGD051E TIME (HHMMSS) NOT NUM

Reason: One or more non-numeric characters were specified in the TIME command.

Action: Enter a time in the format *hhmmss*, where *hh* is the hour, *mm* is the minute, and *ss* is the second. Be sure to use leading and trailing zeros as required.

LOGD052E LTE LENGTH TOO LONG

Reason: The logical terminal element identifier is more than 8 characters long.

Action: Replace the value with a logical terminal element identifier that has not more than 8 characters.

LOGD053E CHAR STRING TOO LONG

Reason: A string specified in the FIND command is too long.

Action: Enter a string containing 1 to 56 characters, enclosed in either single or double quotation marks.

LOGD054E PUT STRING IN QUOTES

Reason: A character string specified in the FIND command is not enclosed in quotation marks.

Action: Enclose the character string in either single or double quotation marks.

LOGD055E INCOMPLETE STRING

Reason: A character string specified in the FIND command is incomplete.

Action: Check the syntax of the command and enclose the string in either single or double quotation marks.

LOGD056E ENTER CHAR STRING

Reason: The FIND command was entered without a character string value.

Action: Enter 1 to 56 characters, enclosed in either single or double quotation marks, in the FIND command and press the ENTER key.

LOGD057E BOUND(S) NOT NUM

Reason: A *left-column* value or a *right-column* value in the FIND command contains a non-numeric character.

Action: Replace the value with an integer between 1 and 280 inclusive (events screen), or between 1 and 79 inclusive (Detail screen), and press the ENTER key.

LOGD058E BOUNDARY LEN TOO LONG

Reason: A *left-column* boundary value or a *right-column* boundary value in the FIND command has too many characters.

Action: Replace the value with an integer from 1 through 280 and press the ENTER key.

LOGD059E BOUND GT ALLOWED 280

Reason: The *right-column* value specified is greater than 280, the maximum value allowed on an Event screen.

Action: Replace the value with an integer from 1 through 280 and press the ENTER key.

LOGD060E BOUND GT ALLOWED 79

Reason: The *right-column* boundary value specified is greater than 79, which is the maximum allowed for a detail screen.

Action: Replace the value with an integer less than or equal to 79.

LOGD061E INVALID "FIND" OPTION

Reason: An option specified in the FIND command is invalid.

Action: See Chapter 3, "Commands" on page 3-1 or enter the HELP command to check the syntax of the FIND command.

LOGD062E NO PREVIOUS FIND

Reason: An RFIND command was entered without a previous FIND command being entered.

Action: Enter a FIND command; then you can enter an RFIND command.

LOGD063E AMOUNT NOT NUM

Reason: The scrolling amount contains a non-numeric character.

Action: Replace the value with an integer less than or equal to 32767 and press the ENTER key.

LOGD064E AMT LENGTH TOO LONG

Reason: The scrolling amount specified has too many characters.

Action: Replace the value with an integer less than or equal to 32767 and press the ENTER key.

LOGD065E AMOUNT GT 32767

Reason: The value specified in the UP or DOWN command is greater than 32767, which is the maximum number of lines allowed.

Action: Replace the value with an integer less than or equal to 32767 and press the ENTER key.

LOGD066E AMOUNT GT ALLOWED 201

Reason: The value specified in the LEFT or RIGHT command is greater than 201, which is the maximum number of columns allowed.

Action: Replace the value with an integer less than or equal to 201.

LOGD067E AMOUNT GT 250

Reason: The value specified in the PUP or PDOWN command is greater than 250, which is the maximum number of pages allowed.

Action: Replace the value with an integer less than or equal to 250 and press the ENTER key.

LOGD068E ERRSTAT=error-status FROM BIND IDMSNWK9

Reason: See *CA-IDMS Error Messages and Codes*.

Action: Take appropriate action as indicated in the *CA-IDMS Error Messages and Codes* guide.

LOGD080E INVALID COMMAND

Reason: The command entered is not valid.

Action: See Chapter 3, "Commands" on page 3-1 or enter the HELP command to check which commands are valid at this level.

LOGD090E IDMSINIT WHILE CV UP?

Reason: The DDLDCLOG area has been re-initialized during your session, preventing retrieval of the CV of the CA-IDMS/DC system log record by CA-IDMS/Online Log Display.

Action: CA-IDMS/Online Log Display automatically repositions itself to the beginning of the log you are viewing. Continue your session from this point.

LOGD091E INVALID RECORD TYPE OF record-code

Reason: An unexpected log record type was detected while a detail display was being formatted.

Action: Use the EXIT command to return to the events screen and reselect the event by positioning the cursor and entering the DETAIL command.

LOGD092E IRRECOVERABLE ERROR

Reason: The system communication block for the CA-IDMS/Online Log Display system cannot be located.

Action: Exit to CA-IDMS DC and reinvoke CA-IDMS/Online Log Display.

LOGD093E REPOSITIONED TO TOP

Reason: Alteration of the log file database keys activated system recovery to redisplay the beginning of the log.

Action: Continue the CA-IDMS/Online Log Display session.

LOGD094E UNABLE TO FRMT DETAIL

Reason: Alteration of a database key for an event selected for detail review activated system recovery. The beginning of the log is redisplayed.

Action: Reselect the log event for detail display and continue the CA-IDMS/Online Log Display session.

LOGD095E PAGE NUMBER NOT NUM

Reason: The specified log page number contains a non-numeric character.

Action: Replace the value with an integer within the valid page range of the DC database log area and press the ENTER key. To find the current database log page, enter the SHOW command.

LOGD096E ENTER PAGE NUMBER

Reason: An LPSTART command was entered without a database page.

Action: After LPSTART, enter an integer within the valid page range of the DC database log area and press the ENTER key. To find the current database log page, enter the SHOW command.

LOGD097E PAGE OUTSIDE RANGE

Reason: The number specified in the LPSTART command lies outside the database page range of the DC log area.

Action: Replace the value with an integer within the valid page range of the DC database log area and press the ENTER key. To find the current database log page, enter a SHOW command.

LOGD098E LEFT GT RIGHT

Reason: In a FIND command, the number specified for the left column is greater than the number specified for the right column.

Action: Correct the column values and press the ENTER key.

LOGD099I LOG RECORD IS REUSED

Reason: An archived record has been updated since it was last displayed. It is no longer available.

Action: Enter another request.

LOGD100I PREVIOUS 8 LINES REPEAT number-of-repetitions TIME(S)

Reason: The log dump contains the indicated number of identical repetitions of the previous 8 lines of the display (8 lines present 128 bytes of dump information). The repetitions are not shown in the display.

Action: None.

LOGD101E LOG LIMIT NOT NUMERIC

Reason: The value entered for the LOG OBTAIN LIMIT contains characters which are not numeric.

Action: Re-enter value making sure there are no non-numeric characters or spaces.

LOGD102E UNABLE TO FORMAT DETAIL

Reason: Statistics detail was requested with the DETAIL command. No detail is available for the line requested.

Action: Use the EXIT command to return to the events screen, select the statistics information by positioning the cursor, and enter the DETAIL command.

Appendix A. Abbreviations

A.1 System Wide Statistics Screen	A-4
A.2 CA-ADS Statistics Screen	A-7

This appendix lists abbreviations found on statistics screens, along with the corresponding CA-IDMS names for the statistics. The abbreviations are listed alphabetically by screen.

A.1 System Wide Statistics Screen

Abbreviation	CA-IDMS Statistic
AUTOST TSK	Total AUTOSTART tasks started
CLC NOFLOW	Number of CALC records with no overflow
CLC OFLOW	Number of CALC records with overflow
DPE THR EXC	Number of times DPE threshold exceeded
DB CALLS	Number of database calls
DPES USED	Maximum Number of DPES used
FRGS STRD	Number of fragments stored
PAG LD PGMPL	Total pages loaded into XA PGMPOOL
PAG LD RNTPL	Total pages loaded into XA RENTPOOL
PGPOOL LDS	Total number of PGMPOOL LOADS
PGPOOL PGS	Total pages loaded into PGMPOOL
PGPOOL WTS	Number of PGMPOOL WAITS
PGS READ	Number of pages read
PGS RQSTD	Number of pages requested
PGS WRITTN	Number of pages written
PUTJRNLS	Total number of PUTJRNLS
QUEUE DELS	Total DELQUE requests
QUEUE GETS	Total GETQUE requests
QUEUE PUTS	Total PUTQUE requests
RCE THR EXC	Number of times RCE threshold exceeded
RCES USED	Maximum number of RCEs used
REC CUR RU	Number of records current of run-unit
REC RELO	Number of records relocated
REC RQSTD	Number of records requested
RLE THR EXC	Number of times RLE threshold exceeded
RLES USED	Maximum number of RLEs used
RNTPOOLLDS	Total number of RENTPOOL LOADS
RNTPOOLPGS	Total pages loaded into RENTPOOL

Abbreviation	CA-IDMS Statistic
RNTPOOLWTS	Total number of RENTPOOL WAITS
SCR DELS	Total DELSCR requests
SCR GETS	Total GETSCR requests
SCR PUTS	Total PUTSCR requests
SETIM CNLS	Total SETTIME CANCEL requests
SETIM PSTS	Total SETTIME POST requests
SETIM TSKS	Total SETTIME STRTTASK requests
SETIM WTS	Total SETTIME WAIT requests
STG FREES	Total FREESTG requests
STG GETS	Total GETSTG requests
STG PASS 1	STG requests satisfied by PASS 1
STG PASS 2	STG requests satisfied by PASS 2
STG PASS 3	STG requests satisfied by PASS 3
STG SHORT	Times short on storage reached
SYSMOD TIM	Total time in system mode
SYSTSKS AC	System tasks currently active
STSTSKS PR	Total system tasks processed
TIME GETS	Total GETTIME requests
TOT PFIQ RQ	Total PGFIX requests
TOT PGE FIX	Total number of pages fixed
TOT PGRE RQ	Total PGREE requests
TOT# PGS FRD	Total number of pages freed
TOT SYSTSK	Total tasks processed by system
TSKS ABNDS	Total tasks abended
TSKS ACTIV	Total tasks currently active
TSKS MAX	Times max task condition reached
TSKS RNWY	Tasks aborted for run away (waiting too long between CA-IDMS requests)
TSKS STK HI	Task stack high water mark
USRMOD TIM	Total time in user mode
VIA NOFLOW	Number of VIA records with no overflow

Abbreviation	CA-IDMS Statistic
VIA OFLOW	Number of VIA records with overflow

A.2 CA-ADS Statistics Screen

Abbreviation	CA-IDMS Statistic
DIALOG NAME	Dialog name of "\$ADS@AO"
DIALOG VER	Dialog version number
EX ABORTS	Number of explicit ABORT commands
EX DSP CMND	Number of explicit DISPLAY commands
EX DSP CNT	Number of explicit DISPLAY CONTINUE commands
EX INVOKE	Number of explicit INVOKE commands
EX LEVE AD	Number of explicit LEAVE ADS commands
EX LEVE APL	Number of explicit LEAVE APPLICATION commands
EX LNK DILG	Number of explicit LINK TO DIALOG commands
EX LNK PGM	Number of explicit LINK TO PROGRAM commands
EX RETRN	Number of explicit RETURN commands
EX RETRN CT	Number of explicit RETURN CONTINUE commands
EX SCR DEL	Number of explicit SCRATCH DELETE commands
EX SCR GETS	Number of explicit SCRATCH GET commands
EX SCR PUT	Number of explicit SCRATCH PUT commands
EX TRANSFR	Number of TRANSFER commands
HIGH LNK LEVL	Highest link level at which dialog executed
HIGH RBB USE	Highest number of RBBs used
GET DET CMND	Number of GET DETAIL commands
IM ABORT	Number of implicit ABORT commands
IM DSP CMD	Number of implicit DISPLAY commands
IM LEVE AD	Number of implicit LEAVE ADS commands
IM LEVE AP	Number of implicit LEAVE APPLICATION commands
IM LK DILG	Number of implicit LINK TO DIALOG commands
IM LNK PGM	Number of implicit LINK TO PROGRAM commands
IM RETURN	Number of implicit RETURN commands
IM RTRN CT	Number of implicit RETURN CONTINUE commands
IM TRANS	Number of implicit TRANSFER commands

Abbreviation	CA-IDMS Statistic
LOW LNK LEV	Lowest link level at which dialog executed
LOW RBB USE	Lowest number of RBBs used
LST FRE SPC	Least free space when least storage used
LST SPC ACQ	Least RBB space acquired for this dialog
LST STG USE	Least RBB storage used (all dialogs)
LTERM ID	DC logical terminal id
MST FRE SPC	Most RBB free space when most storage used
MST SPC ACQ	Most RBB space acquired for this dialog
MST STG USED	Most RBB storage used (all dialogs)
PRMP PRO EXC	Number of PREMAP PROCESS executions
PUT CUR DET	Number of PUT CURRENT DETAIL commands
PUT NEW DET	Number of PUT NEW DETAIL commands
RBB PUT SCR	Number of times RBB's put to scratch
RS PRO EXC	Number of RESPONSE PROCESS executions
SIZE OF FDB	Size of the FDB
SIZE OF VDB	Size of the VDB
ST ACC CAL	Number of STATS ACCUMULATION calls
TSB BD DTE	Date TSB BIND command issued
TSB BD TIM	Time TSB BIND command issued
USER ID	DC user id
WRT PRT CMND	Number of WRITE TO PRINTER commands

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