XOMT

Extended Operations Master Terminal

USER REFERENCE GUIDE

Release 3.14

Contents

Preface

This manual describes the use and installation of XOMT (Extended Operations Master Terminal), an interactive facility designed to assist the CA-IDMS/DC-UCF user in the management of system resources.

This manual is organized as follows:

- Chapter 1 is an introduction to XOMT and gives an overview of its major features.
- Chapter 2 describes how XOMT is activated by the CA-IDMS/DC-UCF user.
- Chapters 3 through 7 provide a detailed description of all XOMT functions. A thorough understanding of the material in these sections is essential in order to achieve maximum proficiency when using the product.
- Chapters 8 describes the installation, generation and operation of XOMT.
- Chapters 9 gives a list of the XOMT error messages.
- Appendix A provides a description of the XOMT Memory Update facility.
- Appendix B provides a description of the XOMT Discrete Security facility.

CHAPTER 1:
XOMT Introduction

Introduction

XOMT is a resource management tool developed to increase the productivity and responsiveness of a wide range of CA-IDMS/DC-UCF users, including managers, system architects, analysts, programmers, database administrators, data communication administrators, technical and operations support personnel.

XOMT provides the functions that allow the user to obtain a complete picture of the major resources in the CAIDMS/DC-UCF environment. It is operated interactively and is screen-driven. XOMT permits users at any level of technical expertise to benefit from its monitoring and update capabilities.

XOMT quickly checks the resource definitions and occurrences based on user-specified selection criteria. Resources allocated by user tasks and system tasks, statistics, vital parameters and control blocks are also monitored with extended capabilities to browse and update memory.

Major Features:

Global Search

To activate the CMMT application under TSO a command list (CLIST) must be called; the Installation section of this guide describes the CLIST. To activate the CMMT application under VTAM an APPLID must be invoked; the Installation section of this guide describes the necessary VTAM specifications.

The CMMT initial screen is then displayed showing all the CA-IDMS environments available. This screen is the starting point for all CMMT activity.

XOMT allows the user to monitor, and update, the major CA-IDMS/DC-UCF resources. The following resources can be monitored:

- Areas
- Buffers of the global DMCL
- Database names (DBNAME)
- Program Compile Date
- Destinations
- Files
- Applied PTFs
- Physical lines
- Logical terminals
- CA-IDMS Memory Map
- CA-IDMS Nucleus Map
- Programs
- Programs called (at least once)
- Printers

- Physical terminals
- Runtime Resources
- Printer Reports
- Permanent Run-units
- Subschemas
- Storage pools
- System statistics
- Tasks
- Tasks called (at least once)
- Signed-on users

The Global Search capabilities allow monitoring of all occurrences within a resource type. The scope of a Global Search can be refined for each of the above resources by supplying a Generic Mask to obtain more selective results (Chapter 4 explains Generic Mask specifications). The Global Search feature is a primary function and is supplemented by a more sophisticated Selection Criteria capability.

Selection Criteria

After a Global Search, it is possible to query on variable selection criteria giving the user a broad range of displays (Chapter 5 explains Selection Criteria specifications). For example, XOMT can easily display:

Buffers, whose names contain the letters IRM, that have a Buffer Hit Ratio greater than 1

Resource Utilization

XOMT can query the utilization of the following runtime resources in the CA-IDMS/DC-UCF environment:

- Memory resources
- DC resources, by logical terminal
- DC resources, by active task
- DB resources, by active task

For example, using the Automatic Screen Refresh capability, the user can, for a given active task, see the resources the task is waiting on and the number of locks in effect while it accesses the database.

Memory Display

XOMT can display the memory contents (i.e. Control Blocks) of the CA-IDMS/DC-UCF environment. The user can:

- Request a formatted list of the CA-IDMS/DC-UCF environment
- Request a memory display associated with a given resource
- Perform advanced memory navigation with relative, direct, indirect and indexed addressing
- Scan memory for a given character string

Update

XOMT can modify the status of resources and the memory contents of the CA-IDMS/DC-UCF environment. The following options are available:

- Vary New Copy, Enable, Disable, Protect or Unprotect programs
- Vary Online, Offline, Connect or Disconnect physical terminals
- Release, Keep, Hold or Delete reports
- Enable or Disable tasks
- Update memory or Cancel/Restore last memory update
- Cancel Tasks
- All vary Area commands

Note:
Multiple areas, programs, terminals, reports or tasks can be updated simultaneously by single-character commands on pageable screen lists.

Discrete Security

XOMT provides Discrete Security capabilities to maintain controlled access to system resources. "Product" as well as "read only" or "update" authority can be granted for programs, terminals, reports, tasks, memory update or Cancel Task capabilities.

Online HELP

XOMT provides the user with full online documentation. Two methods are available to access this information:

- Global HELP
- Selective HELP within each FUNCTION

Other features

XOMT offers Vertical and Horizontal Scrolling as required. It also has an Automatic Screen Refresh capability when executing in an CA-IDMS/DC environment.

CHAPTER 2:
XOMT Activation

Activation

XOMT is an interactive screen-driven facility that executes under CA-IDMS/DC-UCF. It is activated by simply specifying the task code assigned to XOMT at installation time on the CA-IDMS/DC-UCF initial screen. The XOMT initial screen is then displayed showing all the FUNCTIONS available. This screen is the starting point for all XOMT activity. A detailed description of the FUNCTIONS and their usage is given in Chapter 3.

CHAPTER 3:
XOMT Functions

This section describes the functions available to XOMT.

> Note:
> The HC and MT functions are not available to XOMT. These features can be accessed thru CMMT

```
*** X O M T ***       EXTENDED OPERATIONS MASTER TERMINAL     ** REL 3.1 **
FUNCTION:       RESOURCE:                    LINE:     1      08/22/94 19:09:51
MEM :              CMD  :                    TOTAL:    0      PF1/PF13 (HELP)    V10

   FUNCTION:

     AR. AREAS              BU. BUFFERS              DB. DBNAMES
     DC. DATE COMPILED      DE. DESTINATIONS         FI. FILES
     IN. INITIAL SCREEN     LI. LINES                LT. LTERMINALS
     ME. MEMORY (MAP OF IDMS-DC REGION)              NC. NUCLEUS
     P . PROGRAMS           PC. PROGRAMS CALLED      PR. PRINTERS
     PT. PTERMINALS         RE. RESOURCES  (STORAGE + ACTIVE TASKS)
     RP. REPORTS            RU. PERMANENT RUN-UNITS  SC. SUBSCHEMAS
     SP. STORAGE POOL       ST. STATISTICS + SYSTEM PARMS
     T . TASKS              TC. TASKS CALLED         U . USERS




     PF1/PF13 ==> XOMT GLOBAL HELP
     PF9/PF21 ==> AUTOMATIC REFRESH

  ALL RIGHTS RESERVED                                  COPYRIGHT 1987,88,89
  PF7/PF19: BACKWARD  PF8/PF20: FORWARD    PF3/PF15: RETURN    CLEAR/EX:END
```

Figure 3–1. XOMT initial screen (main menu)

```
*** X O M T ***       EXTENDED OPERATIONS MASTER TERMINAL     ** REL 3.1 **
FUNCTION:       RESOURCE:                    LINE:     1      08/22/94 19:10:11
MEM :              CMD  :                    TOTAL:    0      PF1/PF13 (HELP)    V10
Line 4: TITLE line - specific to each Function
Line 5: DETAIL LINES
```

Figure 3–2. primary screen format

Figure 3–1 shows the XOMT initial screen (main menu) that is displayed after XOMT has been invoked. For each of the FUNCTIONS shown, there are global features as well as features particular to each FUNCTION.

Global Features

After selecting a FUNCTION from the MAIN MENU, a Primary Screen specific to that FUNCTION is displayed. All XOMT Primary Screens follow the format illustrated in Figure 3–2.

Line 1

Title line

Line 2

- FUNCTION: FUNCTION or Sub-FUNCTION name (e.g. AR, RE, R3, etc.). Note: If field is blank the Global HELP facility is invoked.
- RESOURCE RESOURCE name, with or without Generic Mask characters (e.g. up to 8-character program name, up to 16-character area name, etc.). Note: If field is blank, ALL resources are displayed.
- LINE: An automatically generated unique sequential number (default: 1) assigned to the first detail line of the current display (e.g. 1,20,23).

Line 3

- MEM: Used for Memory Navigation/Update and also to CANCEL a task (e.g. @2C8, Ctask no, etc).
- CMD: Used for Memory Update (contains the word VARY).
- TOTAL: A protected field used to display the total number of detail lines available for display.
- Vnnn: Central Version number of the current CV (e.g. V10, V101).
- Line 4 - FUNCTION header - Contains column headers specific to the current FUNCTION.

Line 4 - FUNCTION header

Contains column headers specific to the current FUNCTION.

Lines 5 to 23

DETAIL lines. NOTE: Line 5 is also used to specify a Selection Criteria.

Line 24

MESSAGE or TOTALS line

```
CMMT/XOMT FUNCTION MATRIX
FUNCTION RESOURCE AVAILABLE FEATURES
AR Area name GM SC ME VS HS AR GH SH TO UP(7)
BU Buffer name GM SC ME VS AR GH SH TO
DB Database name GM SC ME VS AR GH SH
DC* Program name GH SH
DE Destination name GM SC ME VS AR GH SH
FI (Not applicable) (Refer to SUB-FUNCTION MATRIX)
FX*** PTF number GM VS GH SH
HC** Hard Cancel GH SH UP(6)
IN Initial Screen GH SH
LI Line name GM SC ME VS AR GH SH
LT LTE name GM SC ME VS AR GH SH
ME (Not applicable) ME VS AR GH
MT** Multi Tasking Data ME VS AR GH SH
NC (Not applicable) GM SC ME VS AR GH SH
P Program name GM SC ME VS HS AR GH SH TO UP(1)
PC Program name GM SC ME VS HS AR GH SH TO UP(1)
PR Printer name GM SC ME VS AR GH SH
PT PTE name GM SC ME VS AR GH SH TO UP(2)
RE (Not applicable) (Refer to SUB-FUNCTION MATRIX)
RP Report name GM SC ME VS AR GH SH UP(3)*
RU (Not applicable) AR GH SH
SC* Subschema name GM ME VS AR
SP (Not applicable) ME VS AR GH SH
ST (Not applicable) (Refer to SUB-FUNCTION MATRIX)
T Task name GM SC ME VS HS AR GH SH TO UP(4)
TC Task name GM SC ME VS HS AR GH SH TO UP(4)
U User name GM SC ME VS AR GH SH
SUB-FUNCTION MATRIX
F1 DDNAME GM SC ME VS AR GH SH
F2 DDNAME GM SC ME VS AR GH SH
R1 (Not applicable) SC ME VS AR GH SH TO
R2 LTE name GM SC ME VS AR GH SH TO
R3 Task name GM ME VS HS AR GH SH UP(5)
R4 (Not applicable) ME VS AR GH SH UP(5)
S1 (Not applicable) AR GH SH
S2 (Not applicable) AR GH SH
* These FUNCTIONS are not available to CMMT.
** These FUNCTIONS are not available to XOMT.
*** This FUNCTION does not apply to CA-IDMS R12.0 and later.
FEATURE DESCRIPTIONS
GM: Generic Mask AR: Automatic Screen Refresh
SC: Selection Criteria GH: Global Help
ME: Memory Display SH: Selective Help
VS: Vertical Scrolling TO: Totals
HS: Horizontal Scrolling UP: Attribute Updates
(1) Vary New Copy (N), Enable (E), Disable (D), Protect (P), Unprotect (U)
(2) Vary Online (O), Offline (F), Connect (N), Disconnect (D)
(3) Release (R), Keep (K), Hold (H), Delete (D)
(4) Enable (E), Disable (D)
(5) Cancel Task (MEM: Cxxxxxx)
(6) Hard Cancel
(7) Vary Area Online (N), Offline (F), Retrieval (R), Quiesce (Q), Active (A), Purge
(P), Open (O), Open Update (U)
```

Figure 3–3. XOMT FUNCTION features summary chart

Generally, only one or two input fields need to be entered to complete the FUNCTION request. A summary of all the features for each XOMT main menu FUNCTION is provided in Figure 3–3. XOMT uses a standard set of PF key definitions:

```
 PF1/PF13: HELP tutorial
 PF2/PF14: Return to CMMT MAIN MENU
 PF3/PF15: Return (Terminate Automatic Screen Refresh*)
 PF4/PF16: Return to prior address**
 PF5/PF17: Following PF4/PF16 or PF6/PF18, next address**
 PF6/PF18: Return to first address**
 PF7/PF19: Page backward (Vertical Scrolling)
 PF8/PF20: Page forward (Vertical Scrolling)
 PF9/PF21: Automatic Screen Refresh*
 PF19: Reduce Refresh interval by 1 second*
 PF20: Increase Refresh interval by 5 seconds*
 PF10/PF22: Page left (Horizontal Scrolling)
 PF11/PF23: Page right (Horizontal Scrolling)
 CLEAR: Exit from XOMT
 ENTER: Execute the command

  * Used in conjunction with Automatic Screen Refresh (refer to Chapter 7)
** Used in conjunction with Saved Address Table (refer to Chapter 6)
```

Particular Features

The remainder of this section describes the particular features of each FUNCTION. Each sub-section deals with one FUNCTION, and each has the following common format:

- A description of the FUNCTION
- A table showing the possible selection capabilities
- A list of available features
- A sample Primary Screen display and a HELP screen display with a description of each column
- A sample Secondary Screen display and a HELP screen display with a description of each column (where applicable)

Note:
The Totals and Attribute Updates features apply only to certain FUNCTIONS.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: AR RESOURCE: LINE: 1 08/22/94 19:11:29
MEM : CMD : TOTAL: 249 PF1/PF13 (HELP) V10
AREA NAME ----- STA PAGSZ LO-PAGE HI-PAGE PGGRP TYPE
CATSYS.DDLCAT UPD 5064 16060001 16060400 0 S
CATSYS.DDLCATX UPD 5064 16065001 16065100 0 S
CATSYS.DDLCATLOD UPD 5064 16070001 16073000 0 S
DDDOC.DDLDML RET 11476 35001 47000 0 S
DICTES.DDLDML RET 10796 2040001 2085000 0 S
DICTTEST.DDLDML UPD 11476 200001 236000 0 S
DLODTEST.DDLDCLOD UPD 7476 9001 9900 0 S
DMLO.USD-DATA-AREA UPD 3476 75000 76499 0 S
GEICRPT.GEIIR01-REQPRO RET 15476 2401001 2401125 0 S
GEICRPT.GEIIR03-PROCON RET 15476 2403001 2403125 0 S
GGGTEST.GGGIR02-DECIS UPD 4276 1402001 1402020 0 S
GGGTEST.GGGIR03-CLEPER UPD 4276 1403001 1403060 0 S
GGGTEST.GGGIR04-DEMPER UPD 15476 1404001 1404010 0 S
GGGTEST.GGGIR05-HISADR UPD 15476 1405001 1405020 0 S
GGGTEST.GGGIR06-INDX UPD 15476 1406001 1406002 0 S
GGGTEST.GGGIR07-CLEVEH UPD 15476 1407001 1407240 0 S
GGGTEST.GGGIR08-CLEPLA UPD 4276 1408001 1408040 0 S
GGGTEST.GGGIR09-PERATT UPD 15476 1409001 1409010 0 S
GGGTEST.GGGIR10-ANCNOM UPD 15476 1410001 1410010 0 S
```

Figure 3–4.

AR Function - Area List

FUNCTION AR displays statistics on any area defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one area	area name	ENTER
all areals	blank	ENTER
Genericl areas	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–3 shows the Primary Screen of FUNCTION AR. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–4.

A screen displaying the memory contents of the CA-IDMS control block (i.e PR60, #DPRDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired area.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: AR RESOURCE: LINE: 1 08/22/94 19:12:23
MEM : CMD : TOTAL: 249 PF1/PF13 (HELP) V10
AREA NAME------ BUFFER READ WRIT BUFFER RATIO
CATSYS.DDLCAT BUGENERAL 118 1 155 2.31
CATSYS.DDLCATX BUGENERAL 3 1 2 1.66
CATSYS.DDLCATLOD BUGENERAL 3 1 0 1.00
DDDOC.DDLDML BUGENERAL-02 0 0 0 0.00
DICTES.DDLDML BUDICTDB 0 0 0 0.00
DICTTEST.DDLDML BUDICTDB 33561 3236 273926 9.16
DLODTEST.DDLDCLOD BUGENERAL 2 1 1 1.50
DMLO.USD-DATA-AREA BUGENERAL 263 130 2056 8.81
GEICRPT.GEIIR01-REQPRO BUGENERAL-02 0 0 0 0.00
GEICRPT.GEIIR03-PROCON BUGENERAL-02 0 0 0 0.00
GGGTEST.GGGIR02-DECIS BUGENERAL 2 2 4 3.00
GGGTEST.GGGIR03-CLEPER BUGENERAL 18 13 58 4.22
GGGTEST.GGGIR04-DEMPER BUGENERAL-02 1 1 0 1.00
GGGTEST.GGGIR05-HISADR BUGENERAL-02 16 3 11 1.68
GGGTEST.GGGIR06-INDX BUGENERAL-02 1 1 0 1.00
GGGTEST.GGGIR07-CLEVEH BUGENERAL-02 147 55 1195 9.12
GGGTEST.GGGIR08-CLEPLA BUGENERAL 82 12 131 2.59
GGGTEST.GGGIR09-PERATT BUGENERAL-02 117 1 217 2.85
GGGTEST.GGGIR10-ANCNOM BUGENERAL-02 3 1 1 1.33
```

Figure 3–5.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: AR RESOURCE: LINE: 1 08/23/94 19:17:05
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
AREA NAME------ BUFFER READ WRIT BUFFER RATIO
FIELD MEANING OTHER FUNCTIONS:
AREA NAME: AREA NAME SEL. CRIT. = TOTALS
BUFFER : AREA'S BUFFER NAME PF 7/19 BACKWARD
READ : NUMBER OF PHYSICAL READS (1) PF 8/20 FORWARD
WRIT : NUMBER OF PHYSICAL WRITES (2) PF10/22 LEFT
BUFFER : NUMBER OF BUFFER READS (3) PF11/23 RIGHT
RATIO : BUFFER HIT RATIO (1)+(3)/(1) PF 9/21 REFRESH ON
PF 3/15 REFRESHOFF
PF19 -1 SEC
PF20 +5 SECS
=====> TO VIEW PR60 (#DPRDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY AREA ONLINE Q: VARY AREA QUIESCE O: VARY AREA FILE OPEN
F: VARY AREA OFFLINE A: VARY AREA ACTIVE U: VARY AREA FILE OPEN UPDATE
R: VARY AREA RETRIEVAL P: VARY AREA PURGE
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–6.

All DCMT VARY AREA commands are available from this screen:

VARY Commands	XOMT Line Commands
DCMT VARY AREA	area-name ONLINE N
DCMT VARY AREA	area-name OFFLINE F
DCMT VARY AREA	area-name RETRIEVAL R
DCMT VARY AREA	area-name QUIESCE Q
DCMT VARY AREA	area-name ACTIVE A
DCMT VARY AREA	area-name PURGE P
DCMT VARY AREA	area-name OPEN O
DCMT VARY AREA	area-name OPEN UPDATE U

Note:
The previous commands are available only to XOMT. Multiple areas can be updated simultaneously by using the appropriate single-character commands on pageable screen lists. There is a Secondary Screen available for FUNCTION AR, obtained by pressing PF11/PF23.

Figure 3–5 shows the Secondary Screen of FUNCTION AR. A description of the fields appearing on the Secondary Screen is provided on the HELP screen shown in Figure 3–6.

Statistics will be shown for the same group of areas presented on the Primary Screen.

Warning: The user should be careful while manipulating CA-IDMS system areas. Causing those areas to become inaccessible can provoke a stalled CV.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: AR RESOURCE: LINE: 1 08/22/94 19:16:48
MEM : CMD : TOTAL: 8 PF1/PF13 (HELP) V10
AREA NAME------ BUFFER READ WRIT BUFFER RATIO
C SYS
SYSLOD.DDLDCLOD BUGENERAL 8 4 44 6.50
SYSMSG.DDLDCMSG BUGENERAL 1023 0 8159 8.97
SYSTEM.DDLDCRUN BUGENERAL 2576 1049 37860 15.69
SYSTEM.DDLDCLOG BUGENERAL 0 0 0 0.00
SYSTEM.DDLDCSCR BUGENERAL 1 1 0 1.00
SYSTEM.DDLDML BUDICTDB 3875 52 25319 7.53
SYSTEM.DDLOCSCR BUGENERAL 1 1 0 1.00
SYSUSER.DDLSEC BUGENERAL 125 0 290 3.32
TOTAL: READ: 7609 WRIT: 1107 BUFFER: 71672 RATIO: 10.41
```

Figure 3–7.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line of the Secondary Screen:

- Total number of physical reads
- Total number of physical writes
- Total number of buffer reads
- Average buffer hit ratio (for all buffers)

A Totals display is illustrated in Figure 3–7.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: BU RESOURCE: LINE: 1 08/22/94 19:17:22
MEM : CMD : TOTAL: 5 PF1/PF13 (HELP) V10
--BUFFER NAME-- NB CU SIZE TOTAL WAITS READ WRIT BUF RATIO
BUFCCDB 5 0 7548 0 0 0 0 0 0.00
BUGENERAL-02 10 10 15476 154760 0 3057 1319 12921 5.22
BUDICTDB 40 40 11476 459040 0 37436 3288 299245 8.99
BUGENERAL 40 40 9076 363040 0 35826 1606 297361 9.30
BUJOURNAL 3 0 3476 0 0
```

Figure 3–8.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: BU RESOURCE: LINE: 1 08/23/94 19:17:33
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
--BUFFER NAME-- NB CU SIZE TOTAL WAITS READ WRIT BUF RATIO
FIELD MEANING OTHER FUNCTIONS:
BUFF NAME: BUFFER POOL NAME SEL. CRIT. = TOTALS
NB : NUMBER OF BUFFERS IN THE POOL PF 7/19 BACKWARD
CU : NUMBER OF BUFFERS CURRENTLY IN USE PF 8/20 FORWARD
SIZE : BUFFER SIZE PF 9/21 REFRESH ON
TOTAL : TOTAL SIZE FOR THIS BUFFER POOL PF 3/15 REFRESHOFF
WAITS : TIMES WAITED FOR BUFFER PF19 -1 SEC
READ : PHYSICAL READS (1) PF20 +5 SECS
WRIT : PHYSICAL WRITES (2)
BUF : NUMBER OF BUFFER READS (3)
```

Figure 3–9.

BU Function -- Buffer List

FUNCTION BU displays statistics on any buffer defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one buffer	buffer name	ENTER
all buffers	blank	ENTER
Genericl buffers	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Section 7)

Figure 3–8 shows the Primary Screen of FUNCTION BU. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–9. A screen displaying the memory contents of the CA-IDMS control block (i.e. BC53, #BCRDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired buffer.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: BU RESOURCE: LINE: 1 08/22/94 19:17:55
MEM : CMD : TOTAL: 5 PF1/PF13 (HELP) V10
--BUFFER NAME-- NB CU SIZE TOTAL WAITS READ WRIT BUF RATIO
C
BUFCCDB 5 0 7548 0 0 0 0 0 0.00
BUGENERAL-02 10 10 15476 154760 0 3057 1319 12921 5.22
BUDICTDB 40 40 11476 459040 0 37436 3288 299245 8.99
BUGENERAL 40 40 9076 363040 0 35826 1606 297364 9.30
BUJOURNAL 3 0 3476 0 0
TOTAL: NB: 98 TOT: 976840 RD: 76319 WT: 6213 BU: 609530 RAT: 8.98

RATIO : BUFFER HIT RATIO (1)+(3)/(1)
=====> TO VIEW BC53 (#BCRDS) TYPE 'S' IN FIRST COLUMN
```

Figure 3–10.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line:

- Total number of pages in buffer
- Total memory space used by all buffers (in bytes)
- Total number of physical reads
- Total number of physical writes
- Total number of buffer reads
- Average buffer hit ratio

A Totals display is illustrated in Figure 3–10.

Note:
Data on this screen is valid only if PTF 85-11-1067 (Release 10.0) has been applied.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: DB RESOURCE: LINE: 1 08/22/94 20:10:25
MEM : CMD : TOTAL: 49 PF1/PF13 (HELP) V10
DBNAME MATCH SEGMENT SUBSCHEMA MAPS TO DBNAME
*DEFAULT OPT IDMSNWK? IDMSNWK? DICTTEST
IDMSCAT? IDMSCAT? DICTTEST
USDSUB00 USDSUB00 DMLO
GLOIV5?? GLOIV5?? GLOTEST
GLOIV99? GLOIV99? GLOTEST
GEIIV??? GEIIV??? GEICRPT
MROIV??? MROIV??? MROTEST
DDDSNWK? IDMSNWK? DDDOC
APPLNWK? IDMSNWK? DICTTEST
???IV??? ???IV??? GGGTEST
DDDOC OPT CATSYS
DDDOC
LOADTEST
SYSMSG
DICTES OPT CATSYS
DICTES
DLODTEST
SYSMSG
DICTTEST OPT CATSYS
```

Figure 3–11.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: DB RESOURCE: LINE: 1 08/23/94 19:39:21
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
DBNAME MATCH SEGMENT SUBSCHEMA MAPS TO DBNAME
FIELD MEANING OTHER FUNCTIONS:
DBNAME : DBNAME SELECTION CRITERIA
MATCH : MATCH ON SUBSCHEMA ARE OPTIONAL OR REQUIRED PF 7/19 BACKWARD
SEGMENT : SEGMENT ASSOCIATED WITH DBNAME PF 8/20 FORWARD
SUBSCHEMA: SUBSCHEMA NAME 1 FOR MAPPING PF 9/21 REFRESH ON
MAPS TO : SUBSCHEMA NAME 2 FOR MAPPING PF 3/15 REFRESHOFF
DBNAME : MAPPED TO PF19 -1 SEC
PF20 +5 SECS
=====> TO VIEW DB38 (#DBTBDS) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'

XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–12.

DB Function - DBname List

FUNCTION DB displays details on any DBNAME defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one dbname	DBNAME	ENTER
all dbnames	blank	ENTER
Genericl dbnames	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–11 shows the Primary Screen of FUNCTION DB. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–12

A screen displaying the memory contents of the CA-IDMS contrl block (i.e. DB38, #DBTBDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired dbname.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: DC RESOURCE: IRMP0000 LINE: 1 08/22/94 19:18:31
MEM : CMD : TOTAL: 1 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# LANGUAGE DATE-COMPILED
IRMP0000 CDMSLIB ASM 06/14/94
```

Figure 3–13.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: DC RESOURCE: LINE: 1 09/20/94 08:08:14
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# LANGUAGE DATE-COMPILED
FIELD MEANING
PROGRAM : PROGRAM NAME
DDNAM/V# : PROGRAM VERSION
LANGUAGE : PROGRAM LANGUAGE
DATE-COMPILED : DATE COMPILED
NOTE: REQUEST ONLY ONE PROGRAM AT A TIME
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–14.

DC Function -- Program Compile Date

FUNCTION DC displays the compilation date of an executable module when this date is part of the object code. The executable module must be defined in a PDE (Program Definition Element) and be one of the following:

- Map
- CA-ADS/ONLINE dialog
- Subschema
- COBOL application program
- CA-IDMS program
- ASSEMBLER(BAL) application program

SELECTION	CAPABILITIES	RESOURCE KEY
one module	module name	ENTER

Note:
This FUNCTION displays information for only one module at a time. The module is automatically loaded into memory if not already present. This FUNCTION is not available to CMMT.

AVAILABLE FEATURES:

- Global/Selective HELP (refer to Chapter 7)

Figure 3–13 shows the Primary Screen of FUNCTION DC. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–14.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: DE RESOURCE: LINE: 1 08/22/94 19:19:24
MEM : CMD : TOTAL: 58 PF1/PF13 (HELP) V10
DESTINATION TYPE STAT #MBR REPQUEUE
ALLUSERS USER INSRV 8 NO
TRANS620 USER INSRV 8 NO
SAA USER INSRV 2 NO
USAGERS USER INSRV 410 NO
Z03A5012 PRINT INSRV 1 NO
XDEST001 PRINT INSRV 1 NO
Z0300115 PRINT INSRV 1 NO
Z03A551A PRINT INSRV 1 NO
Z0466221 PRINT INSRV 1 NO
Z03A5519 PRINT INSRV 1 NO
Z034510D PRINT INSRV 1 NO
Z0300170 PRINT INSRV 1 NO
XDEST008 PRINT INSRV 1 NO
XDEST009 PRINT INSRV 1 NO
XDEST010 PRINT INSRV 1 NO
XDEST011 PRINT INSRV 1 NO
XDEST012 PRINT INSRV 1 NO
XDEST013 PRINT INSRV 1 NO
XDEST014 PRINT INSRV 1 NO
```

Figure 3–15.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: DE RESOURCE: LINE: 1 08/23/94 19:26:46
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
DESTINATION TYPE STAT #MBR REPQUEUE
FIELD MEANING OTHER FUNCTIONS:
DEST : DESTINATION IDENTIFICATION SELECTION CRITERIA
TYPE : DEST TYPE (USER,PRINTER...) PF 7/19 BACKWARD
STAT : STATUS (IN-SERVICE OR OUT-OF-SERVICE) PF 8/20 FORWARD
#MBR : NUMBER OF MEMBERS IN THE DESTINATION PF 9/21 REFRESH ON
REPQUEUE: REPORT QUEUED FOR THIS DEST. (YES/NO) PF 3/15 REFRESHOFF
PF19 -1 SEC
PF20 +5 SECS
=====> TO VIEW DDE (#DDEDS) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–16.

DE Function - Destination List

FUNCTION DE displays details on any destination defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one destination	destination name	ENTER
all distinations	blank	

Generic destinations Generic Mask (refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–15 shows the Primary Screen of FUNCTION DE. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–16.

A screen displaying the memory contents of the CA-IDMS control block (i.e. DDE, #DDEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired destination.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: FI RESOURCE: LINE: 1 08/22/94 19:20:06
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
OPTION "FI" (FILES)
FUNCTION
F1. GENERAL INFORMATION
F2. DATABASE INFORMATION
*****************************************************
*** DUPLICATED EXCP ENTRIES ARE CONSOLIDATED. ***
*** THAT IS, IF THE DDNAME, DEVICE CLASS, UNIT TYPE,***
*** CHANNEL ADDRESS, AND UNIT ADDRESS ARE THE SAME ***
*** FOR ENTRIES, THE EXCP COUNT IS ACCUMULATED IN ***
*** ONE ENTRY. ***
*****************************************************
```

Figure 3–17.

FI Function - File List

FUNCTION FI displays details on any file defined in the CA-IDMS environment. FI has two sub-FUNCTIONS (F1 and F2) and these are shown in Figure 3–17. To get the Secondary Screen display related to the sub-FUNCTIONS, F1 and F2 must be entered in the FUNCTION field.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: F1 RESOURCE: LINE: 1 08/22/94 19:20:26
MEM : CMD : TOTAL: 135 PF1/PF13 (HELP) V10
DDNAME DSNAME VOLUME I/O
STEPLIB IDMS.TEST.EXPLLIB ALOG05 0
IDMS.DEV1.EXPLLIB ALOG08 0
IDMS.SGBD.EXPLLIB ALOG13 0
IDMS.TEST.NVERPTF ALOG05 0
IDMS.C09312.LOADLIB SHR013 6
IDMS.TEST.SGBDPTF ALOG06 0
IDMS.SGBD.LOADLIB ALOG12 0
CDMSLIB IDMS.TEST.EXPLLIB ALOG05 2770
IDMS.DEV1.EXPLLIB ALOG08 1748
IDMS.SGBD.EXPLLIB ALOG13 949
IDMS.TEST.NVERPTF ALOG05 0
IDMS.C09312.LOADLIB SHR013 2062
IDMS.TEST.SGBDPTF ALOG06 1344
IDMS.SGBD.LOADLIB ALOG12 535
IDMS.TEST.DMSCLXA ALOG05 0
IDMS.TEST.DMSCLIB ALOG06 0
IDMS.TEST.CDMSL002 ALOG05 0
IDMS.TEST.CDMSL003 ALOG06 0
IDMS.MADRID.PRODLOAD ALOG08 0
```

Figure 3–18.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: F1 RESOURCE: LINE: 1 08/23/94 19:27:20
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
DDNAME DSNAME VOLUME I/O
FIELD MEANING OTHER FUNCTIONS:
DDNAME : FILE'S LOGICAL NAME SELECTION CRITERIA
DSNAME : FILE'S PHYSICAL NAME PF 7/19 BACKWARD
VOLUME : VOLUME PF 8/20 FORWARD
I/O : NB EXCP
=====> TO VIEW DSNAME (MVS TIOT) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–19.

Sub-function - Central Version files

Sub-FUNCTION F1 displays file names for all CV (non DB) files as defined in the Startup JCL. Refer to Figure 3–18 for this display and Figure 3–19 for a description of the fields.

SELECTION	CAPABILITIES	RESOURCE KEY
one file	DDNAME	ENTER

SELECTION	CAPABILITIES	RESOURCE KEY
all files	blank	ENTER
Generic files	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

A screen displaying the memory contents of a Central Version DSNAME (i.e corresponding to the MVS TIOT entry) can be viewed by typing an "S" in the first position of the line corresponding to the desired DSNAME.

Sub-function - Database Files

Sub-FUNCTION F2 displays files names for all CV (DB) files as defined in the Startup JCL. Refer to Figure 3–18 for this display and Figure 3–19 for a description of the fields.

SELECTION	CAPABILITIES	RESOURCE KEY
one file	DDNAME	ENTER
all files	blank	ENTER
Generic files	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

A screen displaying the memory contents of a Database DSNAME (i.e corresponding to the MVS TIOT entry) can be viewed by typing an "S" in the first position of the line corresponding to the desired DSNAME.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: FX RESOURCE: LINE: 1 08/22/94 19:21:40
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
APPLIED PTFS
FX NOT AVAILABLE FOR THIS RELEASE
```

Figure 3–20.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: FX RESOURCE: LINE: 1 08/23/94 19:28:44
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
THIS FUNCTION DISPLAYS THE APPLIED PTFS FOR THIS ENVIRONMENT
OTHER FUNCTIONS:
PF 7/19 BACKWARD
PF 8/20 FORWARD
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–21.

FX Function - Applied PTF List

FUNCTION FX displays program temporary fixes (PTF) applied in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one PTF	PTF number	ENTER
all PTFs	blank	ENTER
Generic PTFs	Generic Mask	(refer to Chapter 4)

Note:
This FX FUNCTION extracts information from the IDMSPTFS module. This FUNCTION does not apply to IDMS R12.0 and later.

AVAILABLE FEATURES:

- Vertical Scrolling (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–20 shows the Primary Screen of FUNCTION FX. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–21.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: IN RESOURCE: LINE: 1 08/22/94 19:22:26
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
FUNCTION:
AR. AREAS BU. BUFFERS DB. DBNAMES
DC. DATE COMPILED DE. DESTINATIONS FI. FILES
IN. INITIAL SCREEN LI. LINES LT. LTERMINALS
ME. MEMORY (MAP OF IDMS-DC REGION) NC. NUCLEUS
P . PROGRAMS PC. PROGRAMS CALLED PR. PRINTERS
PT. PTERMINALS RE. RESOURCES (STORAGE + ACTIVE TASKS)
RP. REPORTS RU. PERMANENT RUN-UNITS SC. SUBSCHEMAS
SP. STORAGE POOL ST. STATISTICS + SYSTEM PARMS
T . TASKS TC. TASKS CALLED U . USERS
PF1/PF13 ==> XOMT GLOBAL HELP
PF9/PF21 ==> AUTOMATIC REFRESH
ALL RIGHTS RESERVED COPYRIGHT 1987,88,89
PF7/PF19: BACKWARD PF8/PF20: FORWARD PF3/PF15: RETURN CLEAR/EX:END
```

Figure 3–22.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: IN RESOURCE: LINE: 1 08/23/94 19:29:46
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
THIS FUNCTION DISPLAYS THE INITIAL SCREEN WITH ALL POSSIBLE FUNCTIONS
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–23.

IN Function - Initial Screen

FUNCTION IN displays a list of all the FUNCTIONS available with XOMT.

SELECTION	CAPABILITIES	RESOURCE KEY
all FUNCTIONS	blank	ENTER

AVAILABLE FEATURES:

- Global/Selective HELP (refer to Chapter 7)

Figure 3–22 shows the Primary Screen of FUNCTION IN. The Selective HELP screen is shown in Figure 3–23.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: LI RESOURCE: LINE: 1 08/22/94 19:22:45
MEM : CMD : TOTAL: 6 PF1/PF13 (HELP) V10
LINE NAME STATUS NB-PTE LINE-TYPE COMPACT RPL RPL-REQ RPL-WAIT
CONSOLE INSRV 1 WTO N
UCFLINE INSRV 14 UCF 41.89%
S3270Q1 CLOSED 1 SIM 3270 N
VTAM10 INSRV 103 VTAM 3270 32.64% 10 8831 0%
SYSOUTL1 INSRV 1 SYSOUT N
VTAMLU INSRV 24 N
```

Figure 3–24.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: LI RESOURCE: LINE: 1 08/23/94 19:30:42
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
LINE NAME STATUS NB-PTE LINE-TYPE COMPACT RPL RPL-REQ RPL-WAIT
FIELD MEANING
LINE NAME : LINE NAME
STATUS : STATUS (IN-SERVICE OR CLOSED)
NB-PTE : NUMBER OF PHYSICAL TERMINALS ASSOCIATED WITH THE LINE
LINE-TYPE : LINE TYPE AND/OR ACCESS METHOD
COMPACT : COMPACT 3270 OUTPUT DATA STREAMS (RATIO/NO)
RPL : NUMBER OF REQUEST PARAMETER LIST
RPL-REQ : NUMBER OF RPL REQUESTS OTHER FUNCTIONS:
RPL-WAIT : NUMBER OF WAITS FOR RPL'S SELECTION CRITERIA
PF 7/19 BACKWARD
PF 8/20 FORWARD
=====> TO VIEW PLE (#PLEDS) TYPE 'S' IN FIRST COLUMN PF 9/21 REFRESH ON
PF 3/15 REFRESHOFF
PF19 -1 SEC
PF20 +5 SECS
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–25.

LI Function - Physical Line List

FUNCTION LI displays details on any physical line defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one line	line number	ENTER
all lines	blank	ENTER
Generic lines	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–24 shows the Primary Screen of FUNCTION LI. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–25

A screen displaying the memory contents of the CA-IDMS control block (i.e. PLE, #PLEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired physical line.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: LT RESOURCE: LINE: 1 08/22/94 19:23:16
MEM : CMD : TOTAL: 144 PF1/PF13 (HELP) V10
LTERM-ID PTERM-ID PLINE-ID TYPE STATUS RDB N-TASK AUTOTASK
A4SVT001 A4SVT001 VTAM10 SCREE INSRV YES SIGNON
CONSOLE OPERATOR CONSOLE SCREE ACTIV YES
LSYSOUT1 PSYSOUT1 SYSOUTL1 PRINT ACTIV YES
LS3270Q1 PS3270Q1 S3270Q1 SCREE INSRV YES DCMT
LTELU001 PTELU001 VTAMLU SCREE ACTIV NO GDITACC1
LTELU002 PTELU002 VTAMLU SCREE ACTIV NO
LTELU003 PTELU003 VTAMLU SCREE ACTIV NO
LTELU004 PTELU004 VTAMLU SCREE ACTIV NO
LTELU005 PTELU005 VTAMLU SCREE ACTIV NO
LTELU006 PTELU006 VTAMLU SCREE ACTIV NO
LTELU007 PTELU007 VTAMLU SCREE ACTIV NO
LTELU008 PTELU008 VTAMLU SCREE ACTIV NO
LTELU009 PTELU009 VTAMLU SCREE ACTIV NO
LTELU021 PTELU021 VTAMLU SCREE INSRV NO
LTELU022 PTELU022 VTAMLU SCREE INSRV NO
LTELU023 PTELU023 VTAMLU SCREE INSRV NO
LTELU024 PTELU024 VTAMLU SCREE INSRV NO
LTELU025 PTELU025 VTAMLU SCREE INSRV NO
LTELU026 PTELU026 VTAMLU SCREE INSRV NO
```

Figure 3–26.

```
** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
UNCTION: LT RESOURCE: LINE: 1 08/23/94 19:31:10
EM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TERM-ID PTERM-ID PLINE-ID TYPE STATUS RDB N-TASK AUTOTASK
IELD MEANING OTHER FUNCTIONS:
TERM-ID : LOGICAL TERMINAL IDENTIFICATION SELECTION CRITERIA
TERM-ID : PHYSICAL TERMINAL IDENTIFICATION PF 7/19 BACKWARD
LINE-ID : PHYSICAL LINE IDENTIFICATION PF 8/20 FORWARD
YPE : LOGICAL TERMINAL TYPE PF 9/21 REFRESH ON
TATUS : LOGICAL TERMINAL STATUS PF 3/15 REFRESHOFF
DB : READ BUFFER SUPPORTED PF19 -1 SEC
-TASK : NEXT TASK CODE TO BE EXECUTED PF20 +5 SECS
UTOTASK : AUTO TASK TO BE EXECUTED
====> TO VIEW LTE (#LTEDS) TYPE 'S' IN FIRST COLUMN
T033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–27.

LT Function - Logical Terminal List

FUNCTION LT displays details on any logical terminal defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one terminal	logical terminal name	ENTER
all terminals	blank	ENTER
Generic terminals	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–26 shows the Primary Screen of FUNCTION LT. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–27

A screen displaying the memory contents of the CA-IDMS control block (i.e. LTE, #LTEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired logical terminal.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: ME RESOURCE: LINE: 1 08/22/94 19:23:58
MEM : CMD : TOTAL: 49 PF1/PF13 (HELP) V10
*REGION* *ADDR* *SIZE*
RHDCOS00 00006998 53K
IDMSDBIO 00014060 87K
IDMSDBMS 00029FE8 88K
OPT 00040370 3K
CSA 00041050 24K
CCE 000470A0 5K
SCAAREA 000486E0 3K
RUA 00049578 66K
NLT 0005A060 5K
DDT 0005B5C0 1K
LTT 0005BB40 42K
PTT 00066388 67K
TDT 00077380 156K
PDT 0009E740 1745K
TRCEBUFS 00252CC0 12K
TCA 00255EE0 48
DCEAREA 00255F10 2K
TCEAREA 00256950 238K
MPMODTBL 002923E0 1K
```

Figure 3–28.

ME Function - CA-IDMS Memory Map

FUNCTION ME provides a memory layout of the CA-IDMS/DC-UCF environment by displaying the address and size of each major component.

SELECTION	CAPABILITIES	RESOURCE KEY
one components	blank	ENTER

AVAILABLE FEATURES:

- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global HELP (refer to Chapter 7)

Figure 3–28 shows the Primary Screen of FUNCTION ME.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: ME RESOURCE: LINE: 1 08/22/94 19:23:58
MEM : CMD : TOTAL: 49 PF1/PF13 (HELP) V10
*REGION* *ADDR* *SIZE*
RHDCOS00 00006998 53K
IDMSDBIO 00014060 87K
IDMSDBMS 00029FE8 88K
OPT 00040370 3K
s CSA 00041050 24K
CCE 000470A0 5K
SCAAREA 000486E0 3K
RUA 00049578 66K
NLT 0005A060 5K
DDT 0005B5C0 1K
LTT 0005BB40 42K
PTT 00066388 67K
TDT 00077380 156K
PDT 0009E740 1745K
TRCEBUFS 00252CC0 12K
TCA 00255EE0 48
DCEAREA 00255F10 2K
TCEAREA 00256950 238K
MPMODTBL 002923E0 1K
```

Figure 3–29.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: ME RESOURCE: LINE: 1 08/22/94 19:24:44
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00041050 00000000 . 47F0F9EE 00000000 00000000 00000000 *.09............*
00041060 00000010 . 00000000 00000000 00000000 00000000 *................*
00041070 00000020 . 00000000 00000000 0BFF2D48 0B200000 *................*
00041080 00000030 . 00000000 000598C0 47F0A858 07FF0000 *.........0......*
00041090 00000040 . 96401000 91401000 00000001 00040008 *. ... ..........*
000410A0 00000050 . 0B44AE58 0B476058 0B477440 0B4786D0 *......-.... ....*
000410B0 00000060 . 0B47877C 0B4784A4 0B4787F4 0B47B5F8 *...@.......4...8*
000410C0 00000070 . 0B47C650 0B48A858 0B48AA80 0B48BE58 *..F............*
000410D0 00000080 . 0B44D44C 00014060 00029FE8 0B44E858 *..M... -...Y..Y.*
000410E0 00000090 . 0B442458 0B450058 0B452258 0B44C854 *.............H.*
000410F0 000000A0 . 0B4A3E58 0B44D108 0B4A2E58 0B44D850 *......J.......Q.*
00041100 000000B0 . 0B4A4528 0B48DE58 0B48E284 0B475858 *..........S.....*
00041110 000000C0 . 0B54766C 0B46C058 0000760C 0B469258 *...%............*
00041120 000000D0 . 0B4692C4 0B46B058 0B478458 0B47ACE8 *...D...........Y*
00041130 000000E0 . 0B479080 0B48D5C0 0B463E58 0B464DA4 *......N.......(.*
00041140 000000F0 . 0B465458 0B467258 0B47FE58 0B46A264 *................*
00041150 00000100 . 0B4A9058 00000000 0043C458 0B4AFA58 *..........D...0.*
00041160 00000110 . 0B486658 0B488458 0B4AC458 00479CD0 *..........D.....*
00041170 00000120 . 0B4A9A58 0B48E768 0043BE58 00000000 *......X.........*
```

Figure 3–30.

A screen displaying the memory contents of a specific CA-IDMS component can be viewed by typing an "S" in the first position of the line corresponding to the desired resource.

Figure 3–29 and Figure 3–30 give examples of the selection and display of the CSA memory block. It is then possible to navigate through memory by using the MEM: field or by using indexed Addressing. These techniques are discussed in detail in Chapter 6.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: NC RESOURCE: LINE: 1 08/22/94 20:21:01
MEM : CMD : TOTAL: 168 PF1/PF13 (HELP) V10
CSECT COMPILE LOADED ENTRY EPADDR VECT TYP
RHDCOS00 93/08/25 15:22 00006998 OS00EP1 0000760C + 30 CSA
IDMSDBIO 93/08/03 11:44 00014008 DBIOEP1 00014060 + 13 CSA
IDMSDBMS 93/09/03 13:58 00029F90 DBMSEP1 00029FE8 + 14 CSA
IDMSHLDB 93/07/23 10:10 0B435000 HLDBEP1 0B435058 + 91 CSA
HLDBEP2 0B43B3E0 +110 CSA
IDMSEXP 93/06/28 16:34 0B43BA00 EXPEP1 0B43BA58 + 92 CSA
IDMSQSRT 91/10/30 21:14 0B43FC00 QSRTEP1 0B43FC58 + 99 CSA
RHDCEVAL 91/11/12 21:04 00433000 EVALNTRY 00433058 + 67 CSA
RHDCURTN 91/10/31 15:24 00438600 URTNEP1 00438658 + 63 CSA
RHDCSCRN 93/06/10 08:00 00439200 SCRNEP1 00439258 + 57 NVT
IDMSKEEP 93/08/03 12:46 0B442400 KEEPEP1 0B442458 + 16 CSA
KEEPEP2 0B4425FC +103 NVT
IDMSLRF 93/06/29 15:00 0B443A00 LRFEP1 0B443A80 + 66 CSA
RHDCCURS 93/08/26 12:13 0B448000 CURSEP1 0B448058 + 65 CSA
CURSEP2 0B448158 +104 NVT
RHDCWAIT 93/08/25 15:49 0B44AE00 WAITEP1 0B44AE58 + 00 CSA
WAITEP1R 0B44B988 + 00 NVT
WAITEP2 0B44C854 + 19 CSA
WAITEP2I 0B44CB58 + 01 NVT
```

Figure 3–31.

NC Function - Nucleus Map Information

FUNCTION NC displays the nucleus information on all system modules found within a specific CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one system module	system module name	ENTER
all system modules	blank	ENTER
Generic system modules	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–31 shows the Primary Screen of FUNCTION NC.

A screen displaying the memory contents of the CA-IDMS system module can be viewed by typing an "S" in the first position of the line corresponding to the desired system module name.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: P RESOURCE: LINE: 1 08/22/94 19:25:33
MEM : CMD : TOTAL: 6352 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
$ACF@GEN CDMSLIB LOADLIB TBL ASM ENA FUL NO NO N 0 0 0
$ACF@TAT CDMSLIB LOADLIB TBL ASM ENA FUL NO NO N 0 0 0
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
AAAA CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 0 0 0
ACFA2LON CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 0 0 0
ACFA2SON CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 0 0 0
ACFA2SO1 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 0 0 0
ACFA2SO2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 0 0 0
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACFIV01 CDMSLIB LOADLIB SUB ASM ENA FUL NO YES N 0 0 0
ACFIV01 V0003 LOADLIB SUB ASM ENA FUL NO YES N 0 0 0
ACFIV01 V0002 LOADLIB SUB ASM ENA FUL NO YES N 0 0 0
ACFIV01 V0004 LOADLIB SUB ASM ENA FUL NO YES N 0 0 0
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
```

Figure 3–32.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: P RESOURCE: LINE: 1 08/23/94 19:31:53
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
REE : REENTRANT PROGRAM (FUL,QUA,NON) PF 3/15 REFRESHOFF
RES : RESIDENT (Y/N) ,PRO : PROTECT (Y/N) PF19 -1 SEC
DY : PROGRAM IS DYNAMICALLY DEFINED (Y/N) PF20 +5 SECS
LOAD : TIMES LOADED ,CALL: TIMES CALLED
SIZE : SIZE IN BYTES
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–33.

P Function - Program List

FUNCTION P displays statistics on all the programs (called or not) defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one program	program name	ENTER
all programs	blank	ENTER
Generic programs	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–32 shows the Primary Screen of FUNCTION P. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–33.

A screen displaying the memory contents of the CA-IDMS control block (i.e PDE, #PDTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired program.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: P RESOURCE: LINE: 1 08/22/94 19:25:59
MEM : CMD : TOTAL: 6352 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA AB TRH SAV RM AM LXA #CP S
$ACF@GEN CDMSLIB LOADLIB TBL ASM ENA 0 5 N 24 24 NO 0 Y
$ACF@TAT CDMSLIB LOADLIB TBL ASM ENA 0 5 N 24 24 NO 0 Y
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA 0 5 N AN AN YES 2 Y
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
AAAA CDMSLIB LOADLIB DIA ADS ENA 0 1 N 24 24 NO 0 Y
ACFA2LON CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 24 NO 0 Y
ACFA2SON CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 24 NO 0 Y
ACFA2SO1 CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 24 NO 0 Y
ACFA2SO2 CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 24 NO 0 Y
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 AN NO 1 Y
ACFIV01 CDMSLIB LOADLIB SUB ASM ENA 0 5 N 24 24 NO 0 Y
ACFIV01 V0003 LOADLIB SUB ASM ENA 0 5 N 24 24 NO 0 Y
ACFIV01 V0002 LOADLIB SUB ASM ENA 0 5 N 24 24 NO 0 Y
ACFIV01 V0004 LOADLIB SUB ASM ENA 0 5 N 24 24 NO 0 Y
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA 0 5 Y AN 31 YES 2 Y
ADAHABLD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 NO 0 Y
ADAMABLD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
```

Figure 3–34.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: P RESOURCE: LINE: 1 08/23/94 19:32:09
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA AB TRH SAV RM AM LXA #CP S
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
AB : PGM CHECK (ABEND) PF 3/15 REFRESHOFF
TRH : PGM CHECK THRESHOLD PF19 -1 SEC
SAV : SAVEAREA (Y/N) ,RM :RES MODE(24/31/ANY) PF20 +5 SECS
AM : ADDR MODE (24/31/ANY)
LXA : LOADED ABOVE 16 MEG LINE (YES/NO)
#CP : # COPIES IN MEMORY ====> TO VIEW PDE (#PDTDS)
S : PROGRAM CAN BE SHARED BY ALL (Y/N) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–35.

There is a Secondary Screen available for the FUNCTION P, obtained by pressing PF11/PF23. Figure 3–34 shows the Secondary Screen of FUNCTION P. A description of the fields appearing on the Secondary Screen is provided on the HELP screen shown in Figure 3–35.

Some attribute updates to the programs are possible:

- vary new copy (N) of program
- enable (E) or disable (D) program
- turn storage protection on (P) or off (U)

The bottom of Figure 3–34 and Figure 3–35 displays these update codes. To update program(s) enter the appropriate code in the first position of the line(s) associated with the program(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple programs can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: P RESOURCE: LINE: 1 08/22/94 19:27:37
MEM : CMD : TOTAL: 112 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C ADS
ADSA CDMSLIB LOADLIB DIA ADS ENA FUL NO NO N 1 325 26352
ADSADADD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 10 13936
ADSADCOM CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 64 14376
ADSADDIS CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 6 12896
ADSADMOD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 11 14224
ADSAHCOM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 16216
ADSAMADD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 2472
ADSAMCOM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 55 2336
ADSAMDIS CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 6 2248
ADSAMMEN CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 290 2032
ADSAMMOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 2424
ADSC CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 69 100040
ADSCADDD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 23 36344
ADSCADDM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 6 2888
ADSCADSR CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 0 0 0
ADSCCMSD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 12 26920
ADSCCMSG CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4624
ADSCCOMD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 218 84928
TOTAL LOAD: 57 CALL: 4145 LO/C: 1.37% ABND: 0 SIZE: 1297K
```

Figure 3–36.

Totals are displayed only if a Selection Criteria has been specified.The following additional statistics are displayed on the last line of the Secondary Screen:

- Total number of loaded programs
- Total number of called programs
- Percentage of loaded programs versus called programs
- Total number of program abends
- Total space (in K bytes) occupied by called programs (assuming 1 global load)

A Totals display is illustrated in Figure 3–36.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 19:28:02
MEM : CMD : TOTAL: 825 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 26 1864
```

Figure 3–37.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: PC RESOURCE: LINE: 1 08/23/94 19:32:36
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
REE : REENTRANT PROGRAM (FUL,QUA,NON) PF 3/15 REFRESHOFF
RES : RESIDENT (Y/N) ,PRO : PROTECT (Y/N) PF19 -1 SEC
DY : PROGRAM IS DYNAMICALLY DEFINED (Y/N) PF20 +5 SECS
LOAD : TIMES LOADED ,CALL: TIMES CALLED
SIZE : SIZE IN BYTES
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–38.

PC Function - Called Program List

FUNCTION PC displays statistics on all the programs that are defined in the CA-IDMS environment and have been called at least once.

SELECTION	CAPABILITIES	RESOURCE KEY
one program	program name	ENTER
all programs	blank	ENTER
Generic programs	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–37shows the Primary Screen of FUNCTION PC. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–38.

Please note that the Primary Screen shows the source PDS or LOADAREA where each called program is loaded from. A screen displaying the memory contents of the CA-IDMS control block (i.e PDE, #PDTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired program.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 19:28:19
MEM : CMD : TOTAL: 825 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA AB TRH SAV RM AM LXA #CP S
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA 0 5 N AN AN YES 2 Y
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA 0 5 Y 24 AN NO 1 Y
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA 0 5 Y AN 31 YES 2 Y
ADAHABLD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 NO 0 Y
ADAMABLD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAMFIND CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAMGREC CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 NO 0 Y
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA 0 5 N AN 31 YES 1 Y
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA 0 5 N AN 31 YES 1 Y
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA 0 5 N AN 31 YES 1 Y
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA 0 5 N AN 31 YES 1 Y
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA 0 5 N AN 31 YES 1 Y
ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA 0 5 N AN 31 YES 1 Y
```

Figure 3–39.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: PC RESOURCE: LINE: 1 08/23/94 19:32:51
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA AB TRH SAV RM AM LXA #CP S
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
AB : PGM CHECK (ABEND) PF 3/15 REFRESHOFF
TRH : PGM CHECK THRESHOLD PF19 -1 SEC
SAV : SAVEAREA (Y/N) ,RM :RES MODE(24/31/ANY) PF20 +5 SECS
AM : ADDR MODE (24/31/ANY)
LXA : LOADED ABOVE 16 MEG LINE (YES/NO)
#CP : # COPIES IN MEMORY ====> TO VIEW PDE (#PDTDS)
S : PROGRAM CAN BE SHARED BY ALL (Y/N) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–40.

There is a Secondary Screen available for the FUNCTION PC, obtained by pressing PF11/PF23. Figure 3–39 shows the Secondary Screen of FUNCTION PC. A description of the fields appearing on the Secondary Screen is provided on the HELP screen shown in Figure 3–40.

Some attribute updates to the programs are possible:

- vary new copy (N) of program
- enable (E) or disable (D) program
- turn storage protection on (P) or off (U)

The bottom of Figure 3.14.2 and Figure 3.14.4 displays these update codes. To update program(s) enter the appropriate code in the first position of the line(s) associated with the program(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple programs can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: PC RESOURCE: LINE: 1 08/23/94 19:32:51
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA AB TRH SAV RM AM LXA #CP S
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
AB : PGM CHECK (ABEND) PF 3/15 REFRESHOFF
TRH : PGM CHECK THRESHOLD PF19 -1 SEC
SAV : SAVEAREA (Y/N) ,RM :RES MODE(24/31/ANY) PF20 +5 SECS
AM : ADDR MODE (24/31/ANY)
LXA : LOADED ABOVE 16 MEG LINE (YES/NO)
#CP : # COPIES IN MEMORY ====> TO VIEW PDE (#PDTDS)
S : PROGRAM CAN BE SHARED BY ALL (Y/N) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–41.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line of the Secondary Screen:

- Total number of loaded programs
- Total number of called programs
- Percentage of loaded programs versus called programs
- Total number of program abends
- Total space (in K bytes) occupied by called programs (assuming 1 global load)

A Totals display is illustrated in Figure 3–41.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PR RESOURCE: LINE: 1 08/22/94 19:29:04
MEM : CMD : TOTAL: 54 PF1/PF13 (HELP) V10
LTERM-ID CKPT PTERM-ID STATUS REPORT CLASS DESTINAT ACQ FFD RDB BAN
XLTIM050 1 XPTIM050 DISCN XDEST050 YES YES YES NO
XLTIM049 1 XPTIM049 DISCN XDEST049 YES YES YES NO
XLTIM048 1 XPTIM048 DISCN XDEST048 YES YES YES NO
XLTIM047 1 XPTIM047 DISCN XDEST047 YES YES YES NO
XLTIM046 1 XPTIM046 DISCN XDEST046 YES YES YES NO
XLTIM045 1 XPTIM045 DISCN XDEST045 YES YES YES NO
XLTIM044 1 XPTIM044 DISCN XDEST044 YES YES YES NO
XLTIM043 1 XPTIM043 DISCN XDEST043 YES YES YES NO
XLTIM042 1 XPTIM042 DISCN XDEST042 YES YES YES NO
XLTIM041 1 XPTIM041 DISCN XDEST041 YES YES YES NO
XLTIM040 1 XPTIM040 DISCN XDEST040 YES YES YES NO
XLTIM039 1 XPTIM039 DISCN XDEST039 YES YES YES NO
XLTIM038 1 XPTIM038 DISCN XDEST038 YES YES YES NO
XLTIM037 1 XPTIM037 DISCN XDEST037 YES YES YES NO
XLTIM036 1 XPTIM036 DISCN XDEST036 YES YES YES NO
XLTIM035 1 XPTIM035 DISCN XDEST035 YES YES YES NO
XLTIM034 1 XPTIM034 DISCN XDEST034 YES YES YES NO
XLTIM033 1 XPTIM033 DISCN XDEST033 YES YES YES NO
XLTIM032 1 XPTIM032 DISCN XDEST032 YES YES YES NO
```

Figure 3–42.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: PR RESOURCE: LINE: 1 08/23/94 19:33:04
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
LTERM-ID CKPT PTERM-ID STATUS REPORT CLASS DESTINAT ACQ FFD RDB BAN
FIELD MEANING OTHER FUNCTIONS:
LTERM-ID: LOGICAL TERMINAL IDENTIFICATION SELECTION CRITERIA
CKPT : PRINTER CHECKPOINT FREQUENCY (PAGES) PF 7/19 BACKWARD
PTERM-ID: PHYSICAL TERMINAL IDENTIFICATION PF 8/20 FORWARD
STATUS : PRINTER STATUS PF 9/21 REFRESH ON
REPORT : REPORT NAME PF 3/15 REFRESHOFF
CLASS : PRINTER CLASSES (MAX = 3 DISPLAYED) PF19 -1 SEC
DESTINAT: PRINTER DESTINATION PF20 +5 SECS
ACQ : VTAM PRINTER DEFINED WITH 'ACQUIRE' (YES/NO)
FFD : FORMFEED SUPPORTED (YES/NO)
RDB : READ BUFFER SUPPORTED (YES/NO)
BAN : BANNER PAGE SUPPORTED (YES/NO)
=====> TO VIEW LTE (#LTEDS) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–43.

PR Function - Printer List

FUNCTION PR displays details on any printer defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one printer	printer name	ENTER
all printers	blank	ENTER
Generic printers	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–42 shows the Primary Screen of FUNCTION PR. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–43.

A screen displaying the memory contents of the CA-IDMS control block (i.e LTE, #LTEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired printer.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: LINE: 1 08/22/94 19:29:58
MEM : CMD : TOTAL: 144 PF1/PF13 (HELP) V10
PTERM-ID LTERM-ID PLINE-ID TYP PST LST TERM-ID CLAS DESTINAT READ WRIT ER AQ
OPERATOR CONSOLE CONSOLE SCR INS INS 1 *DESTINV 0 0 0
UCFPT01 UCFLT01 UCFLINE SCR DIS INS WUGRSSTF 1 *DESTINV 9 26 0
UCFPT02 UCFLT02 UCFLINE SCR INS INS BEJ47 1 *DESTINV 57 57 0
UCFPT03 UCFLT03 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT04 UCFLT04 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT05 UCFLT05 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT06 UCFLT06 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT07 UCFLT07 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT08 UCFLT08 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT09 UCFLT09 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT10 UCFLT10 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPRT1 LUCFPRT1 UCFLINE PRI DIS INS SYSUCFB 1 *DESTINV 0 0 0
UCFAULIV UCFAULIV UCFLINE SCR DIS INS AULIVS 1 *DESTINV 0 0 0
UCFPT11 UCFLT11 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
UCFPT12 UCFLT12 UCFLINE SCR DIS INS 1 *DESTINV 0 0 0
PS3270Q1 LS3270Q1 S3270Q1 SCR CLO INS 1 *DESTINV 0 0 0
I03A5012 L03A5012 VTAM10 PRI DIS INS I03A5012 1 *DESTINV 0 0 0 Y
XPTIM001 XLTIM001 VTAM10 PRI DIS INS XPTIM001 1 *DESTINV 0 0 0 Y
I0300115 XLTIM002 VTAM10 PRI DIS INS I0300115 1 *DESTINV 0 0 0 Y
```

Figure 3–44.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: PT RESOURCE: LINE: 1 08/23/94 19:33:20
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
PTERM-ID LTERM-ID PLINE-ID TYP PST LST TERM-ID CLAS DESTINAT READ WRIT ER AQ
FIELD MEANING OTHER FUNCTIONS:
PTERM-ID: PHYSICAL TERMINAL IDENTIFICATION SEL. CRIT. = TOTALS
LTERM-ID: LOGICAL TERMINAL IDENTIFICATION PF 7/19 BACKWARD
PLINE-ID: PHYSICAL LINE IDENTIFICATION PF 8/20 FORWARD
TYP : TERMINAL TYPE SCR:SCREEN PRI:PRINTER PF 9/21 REFRESH ON
PST : PHYSICAL STATUS LST: LOGICAL STATUS PF 3/15 REFRESHOFF
TERM-ID : VTAM:NETNAME UCF:FRONT-END ID PF19 -1 SEC
CLAS : DEFAULT PRINTER CLASS PF20 +5 SECS
DESTINAT: DEFAULT PRINTER DESTINATION
READ : # OF READS ,WRIT:# OF WRITES ,ER:# READ/WRITE ERRORS
AQ : VTAM TERMINAL DEFINED WITH 'ACQUIRE'(Y/N) OR SPACE
=====> TO VIEW PTE (#PTEDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
O: VARY PTERM ONLINE
N: CONNECT PTERM
D: DISCONNECT PTERM
F: VARY PTERM OFFLINE
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–45.

PT Function - Physical Terminal List

FUNCTION PT displays details on any physical terminal defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one terminal	physical terminal name	ENTER
all terminals	blank	ENTER
Generic terminals	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–44 shows the Primary Screen of FUNCTION PT. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–45.

A screen displaying the memory contents of the CA-IDMS control block (i.e PTE, #PTEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired physical terminal.

Some attribute updates to the terminals are possible:

- vary physical terminal online (O) or offline (F)
- connect (N) or disconnect (D) the physical terminal

The bottom of Figure 3–45 displays these update codes. To update physical terminal(s) enter the appropriate code in the first position of the line(s) associated with the physical terminal(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple terminals can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: LINE: 1 08/22/94 19:31:35
MEM : CMD : TOTAL: 27 PF1/PF13 (HELP) V10
PTERM-ID LTERM-ID PLINE-ID TYP PST LST TERM-ID CLAS DESTINAT READ WRIT ER AQ
C E04
E0496B32 XLTEC001 VTAM10 SCR DIS INS A3NAM012 Z0300115 1 1 0 N
E0496B43 XLTEC002 VTAM10 SCR DIS INS A4NAM010 *NODEST* 3 4 0 N
E0492F02 XLTEC003 VTAM10 SCR DIS INS A4NAM005 Z03A551A 382 384 0 N
E0496102 XLTEC004 VTAM10 SCR DIS INS A4NAM023 Z03A551A 61 66 0 N
E0496B57 XLTEC008 VTAM10 SCR DIS INS A4NAM088 *NODEST* 155 154 0 N
E0492402 XLTEC009 VTAM10 SCR DIS INS A4NAM072 Z03A551A 124 125 0 N
E0496B2F XLTEC010 VTAM10 SCR DIS INS A4NAM045 *NODEST* 382 390 0 N
E0492E02 XLTEC011 VTAM10 SCR DIS INS A4NAM026 *NODEST* 26 26 0 N
E04D2E02 XLTEC012 VTAM10 SCR DIS INS A4NAM011 *NODEST* 290 283 0 N
E0493302 XLTEC013 VTAM10 SCR DIS INS A4NAM014 Z03A551A 28 28 0 N
E04D4D02 XLTEC014 VTAM10 SCR DIS INS E04D4D02 Z0466221 15 17 0 N
E0496B2C XLTEC015 VTAM10 SCR DIS INS A4NAM092 Z0466221 36 36 0 N
E0496B17 XLTEC016 VTAM10 SCR DIS INS A4NAM082 *NODEST* 46 48 0 N
E046501D XLTEC017 VTAM10 SCR DIS INS A4NAM097 *NODEST* 340 347 0 N
E0496B7E XLTEC018 VTAM10 SCR DIS INS A4NAM034 *NODEST* 160 163 0 N
E0496B4E XLTEC019 VTAM10 SCR DIS INS A4NAM041 Z03A5519 11 12 0 N
E0492C02 XLTEC020 VTAM10 SCR DIS INS A4NAM064 Z03A551A 120 125 0 N
E0465007 XLTEC022 VTAM10 SCR DIS INS A4NAM047 Z03A551A 525 526 0 N
TOTAL : READ: 3225 WRITE: 3266 ERR: 0
```

Figure 3–46.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line:

- Total number of terminal reads

- Total number of terminals writes
- Total number of terminal read/write errors

A Totals display is illustrated in Figure 3–46.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: RE RESOURCE: LINE: 1 08/22/94 19:32:00
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
OPTION "RE" (RESOURCE)
FUNCTION:
R1. STORAGE NOT ASSOCIATES WITH ANY TERMINAL ( E.G. SHARE, CSA)
R2. RESOURCES ASSOCIATED WITH LOGICAL TERMINAL THAT HAVE NO ACTIVE TASK
R3. ACTIVE TASKS STATISTICS (DB/DC/STORAGE)
R4. ECB TYPES A TASK IS WAITING ON
```

Figure 3–47.

RE Function - Runtime Resource List

FUNCTION RE displays details on all the resources used at runtime by the CA-IDMS/DC-UCF environment. RE has four sub-FUNCTION (R1 through R4) and these are shown in Figure 3–47. To get the Secondary Screen display related to the sub-FUNCTIONS, R1, R2, R3 or R4 must be entered in the FUNCTION field.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R1 RESOURCE: LINE: 1 08/22/94 19:32:43
MEM : CMD : TOTAL: 853 PF1/PF13 (HELP) V10
TYPE ID STG-TYP STG-LOC ATTR STG-LG LG-K TASK-NO **ADRS**
STORAGE .... CSA LONG NOKEEP 384 0 0C01FE88
STORAGE .... CSA LONG NOKEEP 4096 4K 0 0C01EE88
STORAGE .... CSA LONG NOKEEP 28736 28K 0 0C00CDC8
STORAGE .... CSA LONG NOKEEP 8128 7K 0 0C01CEC8
STORAGE .... CSA LONG NOKEEP 64 0 0C01CDC8
STORAGE .... CSA LONG NOKEEP 320 0 0C01CBC8
STORAGE .... CSA LONG NOKEEP 960 0 0C01C808
STORAGE .... CSA LONG NOKEEP 320 0 0C01C6C8
STORAGE .... CSA LONG NOKEEP 106624 104K 0 0BFF2D48
STORAGE .... CSA LONG NOKEEP 192 0 0C01CD08
STORAGE .... CSA LONG NOKEEP 128 0 0C01C108
STORAGE .... CSA LONG NOKEEP 128 0 0C01C088
STORAGE .... CSA LONG NOKEEP 128 0 0C01C008
STORAGE .... CSA LONG NOKEEP 4288 4K 0 00848F48
STORAGE .... CSA LONG NOKEEP 2112 2K 0 0C013E08
STORAGE .... CSA LONG NOKEEP 2112 2K 0 0C014648
STORAGE .... CSA LONG NOKEEP 448 0 0C01C508
STORAGE .... CSA LONG NOKEEP 2816 2K 0 0BFF2248
STORAGE .... CSA LONG NOKEEP 128 0 0C01C488
```

Figure 3–48.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: R1 RESOURCE: LINE: 1 08/23/94 19:34:03
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TYPE ID STG-TYP STG-LOC ATTR STG-LG LG-K TASK-NO **ADRS**
FIELD MEANING OTHER FUNCTIONS:
TYPE : RESOURCE TYPE SEL. CRIT. = TOTALS
ID : STORAGE ID PF 7/19 BACKWARD
STG-TYP : STORAGE TYPE (CSA,DBMS....) PF 8/20 FORWARD
STG-LOC : STORAGE LOCATION (LONG,SHORT) PF 9/21 REFRESH ON
ATTR : STORAGE ATTRIBUTE (KEEP,NOKEEP) PF 3/15 REFRESHOFF
STG-LG : STORAGE LENGTH PF19 -1 SEC
LG-K : STORAGE LENGTH IN K BYTES PF20 +5 SECS
TASK-NO : TASK NUMBER
**ADRS** : RESOURCE'S ADDRESS IN HEXA. FORMAT
=====> TO VIEW CSA (SYSTEM) OR SHARE STORAGE TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–49.

R1 Sub-function - Storage resources

Sub-FUNCTION R1 displays the CSA (System) SHARE storage resources, as seen in Figure 3–48. Refer toFigure 3–49 for a description of the fields.

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)

A screen displaying the memory contents of the CA-IDMS control block can be viewed by typing an "S" in the first position of the line corresponding to the desired storage.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R2 RESOURCE: LINE: 1 08/22/94 19:32:58
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TYPE ST/SA-ID STG-TYP STG-LOC STG-LG TASK-NO TERMINAL **ADRS**
```

Figure 3–50.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: R2 RESOURCE: LINE: 1 08/23/94 19:34:34
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TYPE ST/SA-ID STG-TYP STG-LOC STG-LG TASK-NO TERMINAL **ADRS**
FIELD MEANING OTHER FUNCTIONS:
TYPE : RESOURCE TYPE SEL. CRIT. = TOTALS
ST/SA-ID : STORAGE OR SCRATCH IDENTIFICATION PF 7/19 BACKWARD
STG-TYP : STORAGE TYPE (CSA,DBMS....) PF 8/20 FORWARD
STG-LOC : STORAGE LOCATION (LONG,SHORT) PF 9/21 REFRESH ON
STG-LG : STORAGE LENGTH PF 3/15 REFRESHOFF
TASK-NO : TASK NUMBER PF19 -1 SEC
TERMINAL : LTERMINAL NAME PF20 +5 SECS
**ADRS** : RESOURCE'S ADDRESS IN HEXA. FORMAT
NOTE: YOU CAN SPECIFY A TERMINAL NAME IN THE 'RESOURCE:' FIELD
=====> TO VIEW STORAGE CONTENTS TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–51.

R2 Sub-function - Storage/Scratch resources for inactive terminals

Sub-FUNCTION R2 displays the 'Storage' and 'Scratch' resources for each logical terminal with no active task at the time. Refer to Figure 3–50 for this display and Figure 3–51 for a description of the fields.

SELECTION	CAPABILITIES	RESOURCE KEY
one terminal	logical terminal name	ENTER
all terminals	blank	ENTER
Generic terminals	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)

A screen displaying the memory contents of the CA-IDMS control block can be viewed by typing an "S" in the first position of the line corresponding to the desired storage.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R1 RESOURCE: LINE: 1 08/22/94 19:33:35
MEM : CMD : TOTAL: 853 PF1/PF13 (HELP) V10
TYPE ID STG-TYP STG-LOC ATTR STG-LG LG-K TASK-NO **ADRS**
C
STORAGE .... CSA LONG NOKEEP 384 0 0C01FE88
STORAGE .... CSA LONG NOKEEP 4096 4K 0 0C01EE88
STORAGE .... CSA LONG NOKEEP 28736 28K 0 0C00CDC8
STORAGE .... CSA LONG NOKEEP 8128 7K 0 0C01CEC8
STORAGE .... CSA LONG NOKEEP 64 0 0C01CDC8
STORAGE .... CSA LONG NOKEEP 320 0 0C01CBC8
STORAGE .... CSA LONG NOKEEP 960 0 0C01C808
STORAGE .... CSA LONG NOKEEP 320 0 0C01C6C8
STORAGE .... CSA LONG NOKEEP 106624 104K 0 0BFF2D48
STORAGE .... CSA LONG NOKEEP 192 0 0C01CD08
STORAGE .... CSA LONG NOKEEP 128 0 0C01C108
STORAGE .... CSA LONG NOKEEP 128 0 0C01C088
STORAGE .... CSA LONG NOKEEP 128 0 0C01C008
STORAGE .... CSA LONG NOKEEP 4288 4K 0 00848F48
STORAGE .... CSA LONG NOKEEP 2112 2K 0 0C013E08
STORAGE .... CSA LONG NOKEEP 2112 2K 0 0C014648
STORAGE .... CSA LONG NOKEEP 448 0 0C01C508
STORAGE .... CSA LONG NOKEEP 2816 2K 0 0BFF2248
TOTAL LEN : 825K
```

Figure 3–52.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R2 RESOURCE: LINE: 1 08/22/94 19:33:56
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TYPE ST/SA-ID STG-TYP STG-LOC STG-LG TASK-NO TERMINAL **ADRS**
C
TOTAL LEN : 0K
```

Figure 3–53.

Totals for sub-FUNCTIONS R1 and R2 are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line:

- Total memory space used by the 'storage' resource.

A Totals display is illustrated in Figure 3–52 and Figure 3–53.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:34:16
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
B 004907 IDMSDMLX 9 20K 1 24K 0 0 12 4663 483 11958 25 0006.76
004927 XOMT 6 8K 1 88K 0 0 7 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.66
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0017.49
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.05
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.20
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.23
000004 RHDCRUSD 5 13K 6 9K 0 0 13 1010 0 13578 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 3810 0 65855 35648 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 2567 1038 48966 41425 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.12
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0015.42
000009 UCFLINE 2 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0000.31
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0004.58
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0016.79
```

Figure 3–54.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: R3 RESOURCE: LINE: 1 08/23/94 19:34:47
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
FIELD MEANING
TA-NO : TASK NUMBER
TASK-ID : TASK NAME 'ERUS':PROGRAM NAME
STORAGE : 1:NUMBER OF STORAGE RCE'S 2:TOTAL STORAGE IN K BYTES
PROGRAM : 1:NUMBER OF PROGRAM RCE'S 2:TOTAL PROGRAM'S STORAGE IN K BYTES
SA : NUMBER OF SCRATCH PAGES QU: NUMBER OF QUEUES
RC : TOTAL NUMBER OF RCE'S
P/READ : NUMBER OF PAGES READ OTHER FUNCTIONS:
P/WRIT : NUMBER OF PAGES WRITTEN PF 7/19 BACKWARD
CALL : NUMBER OF 'DB CALLS' PF 8/20 FORWARD
LOCK : TOTAL NUMBER OF 'DB LOCKS' PF10/22 LEFT
TIME : CPU USER TIME + CPU SYSTEM TIME PF11/23 RIGHT
NOTE: A 'B' IN FIRST COLUMN INDICATES A BATCH 'ERUS' PF 9/21 REFRESH ON
A 'C' IN FIRST COLUMN INDICATES A CICS 'ERUS' PF 3/15 REFRESHOFF
=====> TO CANCEL A TASK TYPE 'CXXXXXX' IN 'MEM:' FIELD PF19 -1 SEC
=====> TO VIEW TCE (#TCEDS) TYPE 'S' IN FIRST COLUMN PF20 +5 SECS
=====> TO VIEW FORMATTED TST (#TSTDS) TYPE 'T' IN FIRST COLUMN
=====> TO VIEW ALLOCATED RESOURCES TYPE 'R' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–55.

R3 Sub-function - Active Task Statistics

Sub-FUNCTION R3 displays statistics for the active tasks (both DC and ERUS types).

SELECTION	CAPABILITIES	RESOURCE KEY
one task	task name	ENTER
all tasks	blank	ENTER
Generic tasks	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Cancel Task (refer to the pages immediately following R4 description)

For ERUS, a highlighted letter appears in the first position of the line associated with the task:

- B - BATCH ERUS
- C - CICS ERUS

Refer to Figure 3–54 for this display and Figure 3–55 for a description of the fields.

A screen displaying the memory contents of the task (i.e. TCE, #TCEDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired task.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:35:10
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
t 004929 XOMT 6 8K 1 88K 0 0 7 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.66
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0017.51
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.05
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.20
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.23
000004 RHDCRUSD 5 13K 6 9K 0 0 13 1010 0 13578 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 3810 0 65879 35658 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 2567 1038 48966 41425 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.12
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0015.42
000009 UCFLINE 2 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0000.32
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0004.59
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0016.79
```

Figure 3–56.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:35:31
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
STATISTICS TASK-ID: XOMT PROG: IRMP0000
USER TIME : 0.0000 SYSTEM TIME : 0.0131
DC STATISTICS DB STATISTICS LAST EIGHT REQUESTS
V# RC
PGM CALL : 2 PAGES READ :3796474 00 00
PGM LOAD :8243952 PAGES WRITE :5050505 00 00
STORAGE :8864864 PAGES RQST : 388602 00 00
STORAGE HWM :1139763K CALC NOFLOW :8120848 00 00
FREESTG RQST:5003296 CALC OFLOW :9027696 00 00
SCRATCH GET : 117488 VIA NOFLOW :4778080 00 00
SCRATCH PUT :5923444 VIA OFLOW :4198254 00 00
SCRATCH DEL :4189462 REC RQST :2223421 00 00
QUEUE GET :1338197 REC CUR R-U :5923444 LAST RECORD
QUEUE PUT :5923444 FRAG. STORE :1534778 ==>
QUEUE DEL :7117868 REC. RELOC. :1403776
SYS. SERVICE:4838976 DBKEY: 000000-0000
```

Figure 3–57.

A screen displaying the DB/DC task statistics for a specific task (i.e. formatted TST, #TSTDS) can be viewed by typing a "T" in the first position of the line corresponding to the desired task. Figure 3–56 and Figure 3–57 give examples of the selection and resulting display of a task's statistics.

The last 8 DML verbs issued by the task with their corresponding return codes, plus the last record accessed and its DBKEY are also displayed.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:38:10
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
r 004935 XOMT 6 8K 1 88K 0 0 7 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.66
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0017.59
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.05
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.20
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.23
000004 RHDCRUSD 5 13K 6 9K 0 0 13 1010 0 13578 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 3810 0 65951 35688 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 2567 1038 48966 41425 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.12
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0015.42
000009 UCFLINE 2 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0000.33
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0004.61
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0016.80
```

Figure 3–58.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:38:23
MEM : CMD : TOTAL: 7 PF1/PF13 (HELP) V10
TA-NO TASK-ID TYPE SID *ADR* LENGTH
004936 XOMT STORAGE ELEMENT 0BE16E00 128
STORAGE ELEMENT C TL 00835F80 128
STORAGE ELEMENT IRST 0BE15000 4096
STORAGE ELEMENT 0BF7D9C0 3520
STORAGE ELEMENT 00832EC0 320
STORAGE ELEMENT 00832E40 128
PROGRAM ELEMENT 004DEA00 88K
```

Figure 3–59.

A screen displaying the currently allocated resources for a specific task (i.e. RCEs, RLEs) can be viewed by typing an "R" in the first position of the line corresponding to the desired task. Figure 3–58 and Figure 3–59 give examples of the selection and resulting display of a task's currently allocated resources.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R4 RESOURCE: LINE: 1 08/22/94 19:38:50
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID *PROG* *LTE-ID* PRI STA *ADR* *** ECB TYPE ***
004937 XOMT IRMP0000 UCFLT02 100 ACT
000013 *DRIVER* RHDCPRNT 253 WAI 0BF8476C PRINTER SERVICE
000008 *DRIVER* RHDCDEAD 253 WAI 002626CC WAIT INTERVAL
000772C8 ECB ==> UNKNOWN
000007 *DRIVER* RHDCLGSD 253 WAI 000771C8 ECB ==> UNKNOWN
000006 *DRIVER* RHDCLGSD 253 WAI 00077178 ECB ==> UNKNOWN
000005 *DRIVER* RHDCLGSD 253 WAI 00077128 ECB ==> UNKNOWN
000004 *DRIVER* RHDCRUSD 253 WAI 00076E08 ECB ==> UNKNOWN
0C01918C TIMER ECB
000003 *DRIVER* RHDCRUSD 253 WAI 00076DB8 ECB ==> UNKNOWN
0C01BE4C TIMER ECB
000002 *DRIVER* RHDCRUSD 253 WAI 00076D68 ECB ==> UNKNOWN
0C01C18C TIMER ECB
000051 *DRIVER* VTAMLU 254 WAI 00071D0C INTERNAL SERV DRIVER
009566AC VTAM RECV-ANY RESP/D
009569F4 VTAM READ INIT ECB
000012 *DRIVER* SYSOUTL1 254 WAI 00071B8C INTERNAL SERV DRIVER
000011 *DRIVER* VTAM10 254 WAI 0006802C INTERNAL SERV DRIVER
00938744 VTAM READ INIT ECB
```

Figure 3–60.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: R4 RESOURCE: LINE: 1 08/23/94 19:35:40
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TA-NO TASK-ID *PROG* *LTE-ID* PRI STA *ADR* ** ECB TYPE **
FIELD MEANING
TA-NO : TASK NUMBER
TASK-ID : TASK IDENTIFICATION
*PROG* : PROGRAM NAME
*LTE-ID* : 'DC':LOGICAL TERMINAL NAME 'ERUS' SUBSCHEMA NAME
PRI : TASK PRIORITY
STA : TASK STATUS (ABN,RDY,ACT...)
*ADR* : ECB'S ADDRESS
** ECB TYPE **: ECB TYPE TASK IS WAITING ON OTHER FUNCTIONS:
PF 7/19 BACKWARD
PF 8/20 FORWARD
=====> TO CANCEL A TASK TYPE 'CXXXXXX' IN 'MEM:' FIELD PF 9/21 REFRESH ON
=====> TO VIEW ECB CONTENTS TYPE 'S' IN FIRST COLUMN PF 3/15 REFRESHOFF
PF19 -1 SEC
PF20 +5 SECS
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–61.

R4 Sub-function - Resources waited on by Active Tasks

Sub-FUNCTION R4 displays all the resources that active tasks are waiting on. Each resource is identified by its corresponding event control block (ECB). Refer to Figure 3–60 for this display and Figure 3–61 for a description of the fields.

AVAILABLE FEATURES:

- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Cancel Task (refer to following pages)

A screen displaying the memory contents of the ECB (Event Control Block) can be viewed by typing an "S" in the first position of the line corresponding to the desired ECB.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:39:15
MEM : c4938 CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
004938 XOMT 6 8K 1 88K 0 0 7 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.66
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0017.61
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.05
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.20
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.23
000004 RHDCRUSD 5 13K 6 9K 0 0 13 1010 0 13578 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 3810 0 65987 35703 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 2567 1038 48966 41425 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.12
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0015.42
000009 UCFLINE 2 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0000.34
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0004.62
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0016.80
```

Figure 3–62.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 09/20/94 08:09:05
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
000095 XOMT 7 8K 1 88K 0 0 8 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.01
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0011.16
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.00
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.01
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.04
000004 RHDCRUSD 5 13K 6 9K 0 0 13 99 0 5198 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 49 0 417 137 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 1862 41 8679 7989 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.11
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.13
000009 UCFLINE 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0003.95
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0010.86
XT030 TASK CANCELLED
```

Figure 3–63.

Cancelling a task

Sub-FUNCTIONS R3 and R4 are used to cancel active tasks. The required information is keyed in the MEM field using the following format:

```
MEM: Cxxxxxx
```

Where xxxxxx is the number of the task to be cancelled.

The ENTER key triggers the cancel operation. A confirmation message is displayed. Refer to Figure 3–62 and Figure 3–63 for an example.

```
PREVIOUS TASK ABENDED WITH ABEND CODE XOMT
```

Figure 3–64.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: R3 RESOURCE: LINE: 1 08/22/94 19:40:43
MEM : CMD : TOTAL: 15 PF1/PF13 (HELP) V10
TA-NO TASK-ID STORAGE PROGRAM SA QU RC P/READ P/WRIT CALL LOCK TIME
004940 XOMT 6 8K 1 88K 0 0 7 ++++ NO RUN-UNIT ++++ 0000.01
000013 RHDCPRNT 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.66
000008 RHDCDEAD 0 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0017.64
000007 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.05
000006 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.20
000005 RHDCLGSD 5 15K 1 0K 0 0 7 0 0 3 1 0000.23
000004 RHDCRUSD 5 13K 6 9K 0 0 13 1010 0 13578 2 0000.00
000003 RHDCRUSD 3 8K 1 4K 0 0 5 3810 0 66011 35713 0000.00
000002 RHDCRUSD 3 7K 1 1K 0 0 5 2567 1038 48966 41425 0000.00
000051 VTAMLU 0 0K 0 0K 0 0 0 ++++ NO RUN-UNIT ++++ 0000.12
000012 SYSOUTL1 1 0K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0000.00
000011 VTAM10 1 5K 0 0K 0 0 1 ++++ NO RUN-UNIT ++++ 0015.42
000009 UCFLINE 2 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0000.34
000001 *DBRC* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0004.63
000000 *MASTER* 1 0K 0 0K 0 0 2 ++++ NO RUN-UNIT ++++ 0016.81
```

Figure 3–65.

Furthermore, the User Terminal will also receive a message. Refer to Figure 3–64 for an example. The screen will be re-displayed to indicate the effect of the cancel. Refer to Figure 3–65.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: RP RESOURCE: LINE: 1 08/22/94 19:43:28
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
ON-PRINT DEST/CLA REP-NAME LTE-ORIG PROG LINE CO USER DATE TIME
```

Figure 3–66.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: RP RESOURCE: LINE: 1 08/23/94 19:35:58
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
ON-PRINT DEST/CLA REP-NAME LTE-ORIG PROG LINE CO USER DATE TIME
FIELD MEANING OTHER FUNCTIONS:
ON-PRINT : PRINTER IDENTIFICATION SELECTION CRITERIA
DEST/CLA: DESTINATION IDENTIFIER OR CLASS NUMBER PF 7/19 BACKWARD
REP-NAME: REPORT NAME PF 8/20 FORWARD
LTE-ORIG: LOGICAL TERMINAL ORIGIN PF 9/21 REFRESH ON
PROG : PROGRAM NAME PF 3/15 REFRESHOFF
LINE : NUMBER OF LINES IN THE REPORT PF19 -1 SEC
CO : NUMBER OF COPIES PF20 +5 SECS
USER : USER-ID
DATE : REPORT DATE
TIME : REPORT TIME
=====> TO VIEW RPE (#PRTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
R: RELEASE REPORT K: KEEP REPORT H: HOLD REPORT D: DELETE REPORT
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–67.

RP Function - Printer Report List

FUNCTION RP displays details on any printer report that has been created by users.

SELECTION	CAPABILITIES	RESOURCE KEY
one report	report name	ENTER
all reports	blank	ENTER
Generic reports	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–66 shows the Primary Screen of FUNCTION RP. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–67.

A screen displaying the memory contents of the CA-IDMS control block (i.e. RPE, #PRTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired printer report.

Some attribute updates to the reports are possible:

- release (R), keep (K), hold (H) or delete (D) reports

The bottom of Figure 3–67 displays these update codes. To update report(s) enter the appropriate code in the first position of the line(s) associated with the report(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple reports can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: RU RESOURCE: LINE: 1 08/22/94 19:43:55
MEM : CMD : TOTAL: 9 PF1/PF13 (HELP) V10
SUBSCHEMA AREA-NAME NB RU RU-ALLOC RU-FREE RU-OVERF %OVER/ALLO
IDMSNWK7 DDLDCRUN 1 959 959 36 3.75%
IDMSNWKL DDLDCLOD 1 15633 15633 253 1.61%
IDMSNWK6 DDLDCMSG 2 2266 2266 4 0.17%
IDMSNWK8 DDLDML 0 0 0 0 0.00%
IDMSSECU DDLSEC 0 374 374 374 100.00%
IDMSSECS DDLDML 0 209 209 209 100.00%
IDMSCATL DDLCATLOD 0 1 1 1 100.00%
IDMSSECQ 0 0 0 0 0.00%
IDMSSECS DDLDML 0 0 0 0 0.00%
```

Figure 3–68.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: RU RESOURCE: LINE: 1 08/23/94 19:36:23
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
SUBSCHEMA AREA-NAME NB RU RU-ALLOC RU-FREE RU-OVERF %OVER/ALLO
FIELD MEANING OTHER FUNCTIONS:
SUBSCHEMA: SUBSCHEMA NAME PF 9/21 REFRESH ON
AREA-NAME: AREA NAME PF 3/15 REFRESHOFF
NB RU : NUMBER OF RUN-UNITS PF19 -1 SEC
RU-ALLOC: NUMBER OF ASSIGNED RUN-UNITS PF20 +5 SECS
RU-FREE : NUMBER OF FREE RUN-UNITS
RU-OVERF: RUN-UNITS OVERFLOW
%OVER/AL: % OVERFLOW / RUN-UNITS ALLOC
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–69.

RU Function - Permanent Run-unit List

FUNCTION RU displays details on all the permanent (i.e. RHDCRUAL) run-units generated in the CA-IDMS environment.

Note:
User Run-units are displayed in sub-FUNCTIONS R3 and R4.

SELECTION	CAPABILITIES	RESOURCE KEY
all run units	blank	ENTER

Note:
"Extent" type run-units are not displayed by the RU FUNCTION.

AVAILABLE FEATURES:

- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–68 shows the Primary Screen of FUNCTION RU. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–69.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: SC RESOURCE: LINE: 1 08/22/94 19:44:28
MEM : CMD : TOTAL: 426 PF1/PF13 (HELP) V10
SUBSCHEMA
ACFIV01
ACFIV01
ACFIV01
ACFIV01
BSIMNWKA
CAGIV02
CAGIV02
CAGIV02
CAGIV02
CHGIV00
CHGIV00
CHGIV00
CHGIV00
CPOIV01
CPOIV01
CPOIV01
CPOIV01
CPOIV02
CPOIV02
```

Figure 3–70.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: SC RESOURCE: LINE: 1 09/20/94 08:10:03
MEM : CMD : TOTAL: 426 PF1/PF13 (HELP) V10
XT034 =>PF3/PF15 : RETURN<= DOCUMENTATION NOT AVAILABLE FOR THIS SEARCH
```

Figure 3–71.

SC Function - Subschema List

FUNCTION SC displays details on any subschema defined in the CA-IDMS environment and loaded at least once.

SELECTION	CAPABILITIES	RESOURCE KEY
one subschema	subschema name	ENTER
all subschema	blank	ENTER
Generic subschemas	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)

Figure 3–70 shows the Primary Screen of FUNCTION SC. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–71.

A screen displaying the memory contents of the CA-IDMS control block (i.e. PDE, #PDTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired subschema.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: SC RESOURCE: LINE: 1 09/20/94 08:10:20
MEM : CMD : TOTAL: 426 PF1/PF13 (HELP) V10
SUBSCHEMA
x ACFIV01
ACFIV01
ACFIV01
ACFIV01
BSIMNWKA
CAGIV02
CAGIV02
CAGIV02
CAGIV02
CHGIV00
CHGIV00
CHGIV00
CHGIV00
CPOIV01
CPOIV01
CPOIV01
CPOIV01
CPOIV02
CPOIV02
```

Figure 3–72.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: SC RESOURCE: LINE: 1 09/20/94 08:10:36
MEM : CMD : TOTAL: 1 PF1/PF13 (HELP) V10
SUBSCHEMA INFORMATION
SUBSCHEMA :ACFIV01 VERSION:????
DATE COMPIL:93-09-10 TIME :22.52.23 DMCL :????????
```

Figure 3–73.

A screen displaying additional information for a specific subschema can be viewed by typing an "X" in the first position of the line corresponding to the desired subschema. The

information is extracted from the load module. The subschema is loaded into memory if it is not already present. Figure 3–72 and Figure 3–73 give examples of the selection, and resulting display, of a specific subschema.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: SP RESOURCE: LINE: 1 08/22/94 20:30:08
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
POOL SIZE CURRENT IN USE H.W.M. CUSHION SOS WAIT ADDR
0 2560K 192K 7.50% 364K 14.21% 100K 0 0 005CA000
150-XA 4000K 92K 2.30% 1092K 27.30% 300K 0 0 0BA44000
255-XA 2000K 696K 34.80% 960K 48.00% 0K 0 0 0BE2C000
```

Figure 3–74.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: SP RESOURCE: LINE: 1 08/23/94 19:40:28
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
POOL SIZE CURRENT IN USE H.W.M. CUSHION SOS WAIT ADDR
FIELD MEANING OTHER FUNCTIONS:
POOL STORAGE POOL NUMBER SELECTION CRITERIA
SIZE : SIZE OF STORAGE POOL, IN K BYTES PF 7/19 BACKWARD
CURRENT : STORAGE CURRENTLY IN USE, IN K BYTES PF 8/20 FORWARD
H.W.M. : HIGH WATER MARK, IN K BYTES AND % PF 9/21 REFRESH ON
CUSHION : SIZE OF STORAGE CUSHION, IN K BYTES PF 3/15 REFRESHOFF
SOS : NUM OF TIMES SHORT-ON-STORAGE PF19 -1 SEC
WAIT : NUM OF WAITS ON STORAGE PF20 +5 SECS
ADDR : ADDRESS OF STORAGE
=====> TO VIEW SCT (#SCTDS) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–75.

SP Function - Subpool List

FUNCTION SP displays details on any subpool defined in the CA-IDMS environment.

AVAILABLE FEATURES:

- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–74 shows the Primary Screen of FUNCTION SP. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–75.

A screen displaying the memory contents of the CA-IDMS control block (i.e. SCT, #SCTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired subpool.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: ST RESOURCE: LINE: 1 08/22/94 19:46:23
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
OPTION "ST" (STATISTICS)
TO VIEW THE INFORMATION; TYPE IN 'FUNCTION' ONE OF THE FOLLOWING
S1: SYSTEM STATISTICS
S2: DATABASE STATISTICS
NOTE: THE STATISTICS WITH '/SEC' INDICATE THE RATIO PER SECOND
SINCE THE LAST 'ENTER'
```

Figure 3–76.

ST Function - System Statistics

FUNCTION ST displays details on global DB and DC statistics and on system parameters of the CA-IDMS environment.

ST has two sub-FUNCTIONS (S1 and S2) and these are shown in Figure 3–76. To get the Secondary Screen display related to the sub-FUNCTIONS, S1 or S2 must be entered in the FUNCTION field.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: S1 RESOURCE: LINE: 1 08/22/94 19:46:37
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
START ==> TIME 6:21:48.46 DATE: 94/234 ACTUAL ==> DATE: 94/234
TASK ERUS INTERNAL RLE RCE DPE
TOT : 4946 TOT : 240 IN USE: 1518 1505 241
USR : 4255 HWM : 3 HWM : 1805 1780 288
ABN : 39 MAX ERUS : 10 SYSTEM: 3000 2800 700
AT MAX : 0 MAX BATCH: 10 ALLOC : 3375 3150 787
MAX TASK : 41 ERUS/SEC : ==>STACK :1200 HWM : 760
ACT TASK : 15 STORAGE GET : 208581 FREE : 208268
TASK/SEC : /SEC : /SEC :
STORAGE ==> SIZE: 8560K CUSHION: 400K SOS: 0 WAIT 0
CURRENT IN USE: 980K 11.44% LONG : 976K 99.59% SHORT: 4K 0.40%
H.W.M: 2416K 28.22% 2352K 27.47% 528K 6.16%
==> POOL: SIZE LOAD NB LOAD OVERLAYING HWM LOAD/
NB PGM WAIT FREE NO-USE IN-USE SEC
PROGRAM 1500K 2249 0 100 2149 0 1500K
REENT 1628K 129 0 129 0 0 1253K
XA-PROG 2000K 2 0 2 0 0 1944K
XA-REENT 6204K 452 0 415 37 0 6204K
```

Figure 3–77.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: S1 RESOURCE: LINE: 1 08/23/94 19:36:49
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
THIS FUNCTION DISPLAYS SYSTEM STATISTICS AND SYSTEM PARAMETERS
DISPLAY INFORMATION ABOUT: OTHER FUNCTIONS:
PF 9/21 REFRESH ON
TASK ACTIVITY PF 3/15 REFRESHOFF
ERUS ACTIVITY PF19 -1 SEC
INTERNAL RESOURCES PF20 +5 SECS
PROGRAM POOL(S) ACTIVITY
STORAGE POOL ACTIVITY
ADDITIONAL INFORMATION WITH: /SEC
THE FIELDS WITH '/SEC' INDICATE THE RATIO PER SECOND
SINCE THE LAST 'ENTER'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–78.

S1 Sub-function - DC Statistics and System Parameters

Sub-FUNCTION S1 displays DC statistics and System parameters. Refer to Figure 3–77 for this display and Figure 3–78 for a description of the fields.

AVAILABLE FEATURES:

- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Note:
At the bottom of the screen (Figure 2–77), 4 lines are reserved for the various pools. The program and re-entrant program pools are always displayed. Additionally, in MVS/XA and MVS/ESA environments the CA-IDMS XA pools will be displayed. In all cases a maximum of 4 pools are displayed.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: S2 RESOURCE: LINE: 1 08/22/94 19:47:01
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
START ==> TIME 6:21:48.46 DATE: 94/234 ACTUAL ==> DATE: 94/234
DB CALLS : 733539 /SEC :
CALC NOFLO: 749 /SEC :
VIA NOFLO : 5515 /SEC :
CALC OVFLO: 261 /SEC :
VIA OVFLO : 680 /SEC :
PAGE RQST : 685631 /SEC :
PAGE READ : 76081 /SEC :
PAGE WRITE: 5953 /SEC :
QUEUE. GET: 4498 PUT: 856 DEL: 603 GET/SEC :
SCRAC. GET: 18342 PUT: 28189 DEL: 28158 GET/SEC :
REC RQST : 803973 REC CUR R/U : 530273
REC RELOC : 0 FRAG STORD : 114
```

Figure 3–79.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: S2 RESOURCE: LINE: 1 09/20/94 08:11:00
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
THIS FUNCTION DISPLAYS DATABASE STATISTICS
DISPLAY INFORMATION ABOUT: OTHER FUNCTIONS:
PF 9/21 REFRESH ON
DB CALL ACTIVITY PF 3/15 REFRESHOFF
PAGE ACTIVITY PF19 -1 SEC
RECORD ACTIVITY PF20 +5 SECS
OVERFLOW, NO-OVERFLOW ACTIVITY
QUEUE, SCRATCH ACTIVITY
ADDITIONAL INFORMATION WITH: /SEC
THE FIELDS WITH '/SEC' INDICATE THE RATIO PER SECOND
SINCE THE LAST 'ENTER'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–80.

Sub-function - DB Statistics

Sub-FUNCTION S2 displays DB statistics. Refer to Figure 3–79 for this display and Figure 3–80 for a description of the fields.

AVAILABLE FEATURES:

- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: T RESOURCE: LINE: 1 08/22/94 19:47:25
MEM : CMD : TOTAL: 1340 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
ABCD UCFECRPT CDMSLIB YES ENA 10 600 1800 100 0 NO ANY
ACFBLDIR ACFBLDIR CDMSLIB YES ENA 10 300 1800 100 4 NO BEL
ACFDRIV1 GGGP900O CDMSLIB NO ENA 10 300 1800 100 0 NO BEL
ACFDRIV2 GGGP900I CDMSLIB YES ENA 10 300 1800 100 0 NO BEL
ACFIDMS VALDIDMS CDMSLIB NO ENA 10 300 1800 100 0 NO BEL
ACFVALID VLDACFA2 CDMSLIB YES ENA 10 400 1800 100 0 NO BEL
ADAI ADAPMAIN CDMSLIB YES ENA 10 300 1800 100 302 NO ANY
ADS ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 9 NO ANY
ADSA ADSORUN1 CDMSLIB YES ENA 10 OFF 1800 100 13 NO ANY
ADSAT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSC ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 5 NO ANY
ADSCADSR ADSCADSR CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSCT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSD ADSOODSD CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSK ADSPCHEK CDMSLIB NO ENA 10 300 1800 100 2 NO ANY
ADSL ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSM ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSODBUG ADSODBUG CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSOTATU ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
```

Figure 3–81.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: T RESOURCE: LINE: 1 08/23/94 19:37:20
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
FIELD MEANING OTHER FUNCTIONS:
TASK : TASK CODE SEL. CRIT. = TOTALS
PROGRAM : PROGRAM INVOKED BY THE TASK PF 7/19 BACKWARD
DDNAM/V#: PROGRAM VERSION PF 8/20 FORWARD
INPUT : TASK DEFINED WITH 'INPUT' PARAMETER (YES/NO) PF10/22 LEFT
STAT : TASK STATUS (ENABLED,DISABLED) PF11/23 RIGHT
RUNAWAY : RUNAWAY TIME IN WALL-CLOCK SECONDS PF 9/21 REFRESH ON
STALL : STALL TIME IN WALL-CLOCK SECONDS PF 3/15 REFRESHOFF
R.T.I : RESOURCE TIMEOUT INTERVAL IN WALL-CLOCK SECONDS PF19 -1 SEC
PRI : PRIORITY SEC : SECURITY PF20 +5 SECS
CALL : NUMBER OF TIMES TASK WAS CALLED
DYN : TASK DYNAMICALLY DEFINED (YES/NO)
LOC : BEL: BELOW 16 MEG ANY: ABOVE 16 MEG
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
E: VARY TASK IN SERVICE (ENABLE); D: VARY TASK OUT OF SERVICE (DISABLE)
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–82.

T Function - Task List

FUNCTION T displays details on any task defined in the CA-IDMS environment.

SELECTION	CAPABILITIES	RESOURCE KEY
one task	task name	ENTER
all tasks	blank	ENTER
Generic tasks	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–81 shows the Primary Screen of FUNCTION T. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–82.

A screen displaying the memory contents of the CA-IDMS control block (i.e. TDE, #TDTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired task.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: T RESOURCE: LINE: 1 08/23/94 19:37:07
MEM : CMD : TOTAL: 1358 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INV DBIO-LIM LOCK-LIM CALL-LIM STG-L PKEY
ABCD UCFECRPT CDMSLIB EXT OFF OFF OFF OFF PF24
ACFBLDIR ACFBLDIR CDMSLIB EXT OFF OFF OFF OFF PF24
ACFDRIV1 GGGP900O CDMSLIB EXT OFF OFF OFF OFF PF24
ACFDRIV2 GGGP900I CDMSLIB EXT OFF OFF OFF OFF PF24
ACFIDMS VALDIDMS CDMSLIB EXT OFF OFF OFF OFF PF24
ACFVALID VLDACFA2 CDMSLIB EXT OFF OFF OFF OFF PF24
ADAI ADAPMAIN CDMSLIB EXT OFF OFF OFF OFF PF24
ADS ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSA ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSAT ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSC ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSCADSR ADSCADSR CDMSLIB INT OFF OFF OFF OFF PF24
ADSCT ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSD ADSOODSD CDMSLIB EXT OFF OFF OFF OFF PF24
ADSK ADSPCHEK CDMSLIB EXT OFF OFF OFF OFF PF24
ADSL ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
ADSM ADSORUN1 CDMSLIB EXT OFF OFF OFF OFF PF24
```

Figure 3–83.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: T RESOURCE: LINE: 1 08/23/94 19:37:37
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INV DBIO-LIM LOCK-LIM CALL-LIM STG-L PKEY
FIELD MEANING OTHER FUNCTIONS:
TASK : TASK CODE SEL. CRIT. = TOTALS
PROGRAM : PROGRAM INVOKED BY THE TASK PF 7/19 BACKWARD
DDNAM/V#: PROGRAM VERSION PF 8/20 FORWARD
INV : TASK INVOKED INT: INTERNAL EXT: EXTERNAL PF10/22 LEFT
DBIO-LIM: DB I/O LIMIT PF11/23 RIGHT
LOCK-LIM: DB LOCK LIMIT PF 9/21 REFRESH ON
CALL-LIM: DB/DC CALL LIMIT PF 3/15 REFRESHOFF
STG-L : STORAGE LIMIT PF19 -1 SEC
PFKEY : AID VALUE OF 3270 PRINT KEY PF20 +5 SECS
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
E: VARY TASK IN SERVICE (ENABLE); D: VARY TASK OUT OF SERVICE (DISABLE)
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–84.

There is a Secondary Screen available for the FUNCTION T, obtained by pressing PF11/PF23. Figure 3–83 shows the Secondary Screen of FUNCTION T. A description of the fields appearing on the Secondary Screen is provided on the HELP screen shown in Figure 3–84.

Some attribute updates to the tasks are possible:

- enable (E) or disable (D) task

The bottom ofFigure 3–83 and Figure 3–84 displays these update codes.

To update task(s) enter the appropriate code in the first position of the line(s) associated with the task(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple tasks can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: T RESOURCE: LINE: 1 08/22/94 19:47:59
MEM : CMD : TOTAL: 16 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
C ADS
ADS ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 9 NO ANY
ADSA ADSORUN1 CDMSLIB YES ENA 10 OFF 1800 100 13 NO ANY
ADSAT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSC ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 5 NO ANY
ADSCADSR ADSCADSR CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSCT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSD ADSOODSD CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSK ADSPCHEK CDMSLIB NO ENA 10 300 1800 100 2 NO ANY
ADSL ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSM ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSODBUG ADSODBUG CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSOTATU ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 0 NO ANY
ADSR ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 269 NO ANY
ADSRT ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 4 NO ANY
ADS2 ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 579 NO ANY
ADS2T ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 3 NO ANY
TOTAL CALL: 888
```

Figure 3–85.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line:

- Total number of tasks called.

A Totals display is illustrated in Figure 3–85.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: TC RESOURCE: LINE: 1 08/22/94 19:48:28
MEM : CMD : TOTAL: 135 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
ACFBLDIR ACFBLDIR CDMSLIB YES ENA 10 300 1800 100 4 NO BEL
ADAI ADAPMAIN CDMSLIB YES ENA 10 300 1800 100 302 NO ANY
ADS ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 9 NO ANY
ADSA ADSORUN1 CDMSLIB YES ENA 10 OFF 1800 100 13 NO ANY
ADSAT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSC ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 5 NO ANY
ADSD ADSOODSD CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSK ADSPCHEK CDMSLIB NO ENA 10 300 1800 100 2 NO ANY
ADSL ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSM ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSR ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 269 NO ANY
ADSRT ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 4 NO ANY
ADS2 ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 579 NO ANY
ADS2T ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 3 NO ANY
BYE RHDCBYE CDMSLIB NO ENA 10 300 1800 240 24 NO BEL
CLOD RHDCCLOD CDMSLIB YES ENA 10 300 1800 100 1 NO BEL
CPOTGIA1 CPOP906A CDMSLIB YES ENA 10 300 1800 100 9 NO ANY
CPOTOUV1 CPOP463B CDMSLIB YES ENA 10 300 1800 100 4 NO ANY
CSUR ADSORUN1 CDMSLIB NO ENA 10 300 1800 100 2 NO ANY
```

Figure 3–86.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: TC RESOURCE: LINE: 1 08/23/94 19:38:00
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
FIELD MEANING OTHER FUNCTIONS:
TASK : TASK CODE SEL. CRIT. = TOTALS
PROGRAM : PROGRAM INVOKED BY THE TASK PF 7/19 BACKWARD
DDNAM/V#: PROGRAM VERSION PF 8/20 FORWARD
INPUT : TASK DEFINED WITH 'INPUT' PARAMETER (YES/NO) PF10/22 LEFT
STAT : TASK STATUS (ENABLED,DISABLED) PF11/23 RIGHT
RUNAWAY : RUNAWAY TIME IN WALL-CLOCK SECONDS PF 9/21 REFRESH ON
STALL : STALL TIME IN WALL-CLOCK SECONDS PF 3/15 REFRESHOFF
R.T.I : RESOURCE TIMEOUT INTERVAL IN WALL-CLOCK SECONDS PF19 -1 SEC
PRI : PRIORITY SEC : SECURITY PF20 +5 SECS
CALL : NUMBER OF TIMES TASK WAS CALLED
DYN : TASK DYNAMICALLY DEFINED (YES/NO)
LOC : BEL: BELOW 16 MEG ANY: ABOVE 16 MEG
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
E: VARY TASK IN SERVICE (ENABLE); D: VARY TASK OUT OF SERVICE (DISABLE)
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–87.

TC Function - Called Task List

FUNCTION TC displays details on any task defined in the CA-IDMS environment and called at least once.

SELECTION	CAPABILITIES	RESOURCE KEY
one task	task name	ENTER
all tasks	blank	ENTER
Generic tasks	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical/Horizontal Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)
- Totals (refer to Chapter 7)
- Attribute Updates (refer to Chapter 7)

Figure 3–86 shows the Primary Screen of FUNCTION TC. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–87.

Note:
The Primary Screen shows the source PDS or LOADAREA where each initial program is loaded from

A screen displaying the memory contents of the CA-IDMS control block (i.e. TDE, #TDTDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired task.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: TC RESOURCE: LINE: 1 08/23/94 19:37:44
MEM : CMD : TOTAL: 18 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INV DBIO-LIM LOCK-LIM CALL-LIM STG-L PKEY
ACFBLDIR ACFBLDIR CDMSLIB EXT OFF OFF OFF OFF PF24
CLOD RHDCCLOD CDMSLIB EXT OFF OFF OFF OFF PF24
DCMT RHDCMT00 CDMSLIB EXT OFF OFF OFF OFF PF24
DECINIT DECINIT CDMSLIB EXT OFF OFF OFF OFF PF24
GCATCHAR GCAP403A CDMSLIB EXT OFF OFF OFF OFF PF24
GCATINIT GCAP484A CDMSLIB EXT OFF OFF OFF OFF PF24
GUTCV GUT0652D CDMSLIB EXT OFF OFF OFF OFF PF24
IDMSEXIT IDMSEXIT CDMSLIB INT OFF OFF OFF OFF PF24
MADRID INMADRID CDMSLIB EXT OFF OFF OFF OFF PF24
PCTIM IDMPCTIM CDMSLIB EXT OFF OFF OFF OFF PF24
QUED RHDCQUED CDMSLIB EXT OFF OFF OFF OFF PF24
RHDCNP3S RHDCNP3S CDMSLIB INT OFF OFF OFF OFF PF24
SIGNON SAAQSNON CDMSLIB EXT OFF OFF OFF OFF PF24
SIGNON1 SAAQSNON CDMSLIB INT OFF OFF OFF OFF PF24
SLEACCPT SLEACCPT CDMSLIB EXT OFF OFF OFF OFF PF24
SUBMIT IDMPJCL1 CDMSLIB EXT OFF OFF OFF OFF PF24
XOMT IRMP0000 CDMSLIB EXT OFF OFF OFF OFF PF24
XOMT1 IRMP0000 CDMSLIB INT OFF OFF OFF OFF PF24
```

Figure 3–88.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: TC RESOURCE: LINE: 1 08/23/94 19:38:09
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INV DBIO-LIM LOCK-LIM CALL-LIM STG-L PKEY
FIELD MEANING OTHER FUNCTIONS:
TASK : TASK CODE SEL. CRIT. = TOTALS
PROGRAM : PROGRAM INVOKED BY THE TASK PF 7/19 BACKWARD
DDNAM/V#: PROGRAM VERSION PF 8/20 FORWARD
INV : TASK INVOKED INT: INTERNAL EXT: EXTERNAL PF10/22 LEFT
DBIO-LIM: DB I/O LIMIT PF11/23 RIGHT
LOCK-LIM: DB LOCK LIMIT PF 9/21 REFRESH ON
CALL-LIM: DB/DC CALL LIMIT PF 3/15 REFRESHOFF
STG-L : STORAGE LIMIT PF19 -1 SEC
PFKEY : AID VALUE OF 3270 PRINT KEY PF20 +5 SECS
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
E: VARY TASK IN SERVICE (ENABLE); D: VARY TASK OUT OF SERVICE (DISABLE)
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–89.

There is a Secondary Screen available for the FUNCTION TC, obtained by pressing PF11/PF23. Figure 3–88 shows the Secondary Screen of FUNCTION TC. A description of

the fields appearing on the Secondary Screen is provided on the HELP screen shown in Figure 3–89.

Some attribute updates to the tasks are possible:

- enable (E) or disable (D) task

The bottom o Figure 3–88 and Figure 3–89 displays these update codes.

To update task(s) enter the appropriate code in the first position of the line(s) associated with the task(s) in question and hit ENTER. The screen will be re-displayed to indicate the effect of the change(s).

Note:
Multiple tasks can be updated simultaneously by using the appropriate singlecharacter commands on pageable screen lists.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: TC RESOURCE: LINE: 1 08/22/94 19:48:47
MEM : CMD : TOTAL: 12 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
C ADS
ADS ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 9 NO ANY
ADSA ADSORUN1 CDMSLIB YES ENA 10 OFF 1800 100 13 NO ANY
ADSAT ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSC ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 5 NO ANY
ADSD ADSOODSD CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSK ADSPCHEK CDMSLIB NO ENA 10 300 1800 100 2 NO ANY
ADSL ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSM ADSORUN1 CDMSLIB YES ENA 10 300 1800 100 1 NO ANY
ADSR ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 269 NO ANY
ADSRT ADSOMAIN CDMSLIB NO ENA 10 300 1800 100 4 NO ANY
ADS2 ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 579 NO ANY
ADS2T ADSOMAIN CDMSLIB YES ENA 10 300 1800 100 3 NO ANY
TOTAL CALL: 888
```

Figure 3–90.

Totals are displayed only if a Selection Criteria has been specified. The following additional statistics are displayed on the last line:

- Total number of tasks called.

A Totals display is illustrated in Figure 3–90.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: U RESOURCE: LINE: 1 08/22/94 19:49:12
MEM : CMD : TOTAL: 1 PF1/PF13 (HELP) V10
LINE PTERM LTERM USER N-TASK
UCFLINE UCFPT02 UCFLT02 BEJ47 XOMT
```

Figure 3–91.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 ***
FUNCTION: U RESOURCE: LINE: 1 08/23/94 19:38:22
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
LINE PTERM LTERM USER N-TASK
FIELD MEANING OTHER FUNCTIONS:
LINE : LINE NAME SELECTION CRITERIA
PTERM : PTERMINAL IDENTIFICATION PF 7/19 BACKWARD
LTERM : LTERMINAL IDENTIFICATION PF 8/20 FORWARD
USER : USER-ID PF 9/21 REFRESH ON
N-TASK : NEXT-TASK PF 3/15 REFRESHOFF
PF19 -1 SEC
PF20 +5 SECS
=====> TO VIEW SON (#SONDS) TYPE 'S' IN FIRST COLUMN
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 3–92.

U Function - Signed-on User List

FUNCTION U displays details on any user defined in the CA-IDMS environment, who is active in the system (i.e. signed-on).

SELECTION	CAPABILITIES	RESOURCE KEY
one user	user name	ENTER
all users	blank	ENTER
Generic users	Generic Mask	(refer to Chapter 4)

AVAILABLE FEATURES:

- Selection Criteria (refer to Chapter 5)
- Memory Display (refer to Chapter 6)
- Vertical Scrolling (refer to Chapter 7)
- Automatic Screen Refresh (refer to Chapter 7)
- Global/Selective HELP (refer to Chapter 7)

Figure 3–91 shows the Primary Screen of FUNCTION U. A description of the fields appearing on the Primary Screen is provided on the HELP screen shown in Figure 3–92.

A screen displaying the memory contents of the CA-IDMS control block (i.e. SON, #SONDS) can be viewed by typing an "S" in the first position of the line corresponding to the desired User.

CHAPTER 4:
XOMT Generic Mask Specification

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM****** LINE: 1 08/22/94 19:49:54
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
IRMAP001 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 572 4920
IRMP0000 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 340 90480
IRMP0004 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 35744
```

Figure 4–1.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: LT RESOURCE: L03A5012 LINE: 1 08/22/94 19:50:53
MEM : CMD : TOTAL: 1 PF1/PF13 (HELP) V10
LTERM-ID PTERM-ID PLINE-ID TYPE STATUS RDB N-TASK AUTOTASK
L03A5012 I03A5012 VTAM10 PRINT INSRV YES
```

Figure 4–2.

The Generic Mask feature limits and accelerates searches on predefined resources, in conjunction with a uniform naming convention, or with a resource one does not know the exact name of.

The Generic Mask Specification is most useful when many occurrences of a specific resource type exist (programs, tasks, terminals, etc.) The following mask characters are specified in the RESOURCE: field of the applicable FUNCTIONs' primary screen:

- Any character string (i.e. MATCHES)
- @ Alphabetic characters (i.e. MASK)
- # Numeric characters (i.e. MASK)
- * Alphanumeric characters (i.e. MASK)

The mask specification is applied to the resource name by inserting the mask characters in the appropriate positions. An example of such a specification is shown in Figure 4–1.

The complete and exact specification of a resource name (i.e. without any mask characters) will result in a single output line for the FUNCTION. See Figure 4–2 for an example of such a specification.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: %ma LINE: 1 08/22/94 19:52:13
MEM : CMD : TOTAL: 826 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 26 1864
```

Figure 4–3.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: %MA LINE: 1 08/22/94 19:52:38
MEM : CMD : TOTAL: 52 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAPMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 466 3928
ADSAMADD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 2472
ADSCMAPD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 18 77832
ADSCMAPM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 14 2552
ADSOMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 926 120464
DBGMAT CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 20 5208
DBUGMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 43 89368
EMAAGCGL CDMSLIB LOADLIB MAP ASM ENA FUL NO YES N 1 2 4600
EMAAGCGL V0011 LOADLIB UND ASM ENA FUL NO YES N 1 2 4600
EMAAGCME CDMSLIB LOADLIB MAP ASM ENA FUL NO YES N 1 4 2696
EMAAMENU CDMSLIB LOADLIB MAP ASM ENA FUL NO YES N 1 2 2760
EMADGCGL CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 10 66408
EMADGCGL V0011 LOADLIB DIA ADS ENA FUL NO YES N 1 8 64864
EMADGCGL V0331 PRIMARY DIA ADS ENA FUL NO YES N 1 3 66404
EMADGCGL V1011 PRIMARY DIA ADS ENA FUL NO YES N 1 1 64860
EMADGCME CDMSLIB PRIMARY DIA ADS ENA FUL NO YES N 1 15 44316
EMADMENU CDMSLIB PRIMARY DIA ADS ENA FUL NO YES N 1 5 28120
EMAPMESA CDMSLIB LOADLIB PRO COB ENA QUA NO YES N 3 4 29624
```

Figure 4–4.

Additionally, the RESOURCE: field is used for partial key retrieval.

- % followed immediately by any character string (i.e. CONTAINS)

The % must be in the first position and the character string can be of any length, up to the maximum length (minus one) of the particular resource.

Contrary to the other mask characters, the % cannot be used with any other special characters. An example of such a specification is shown in Figure 4.0.3 and the results are shown in Figure 4–4

.

Note:
A Generic Mask Specification can be used simultaneously with a Selection Criteria specification.

CHAPTER 5:
XOMT Selection Criteria Specification

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 19:53:38
MEM : CMD : TOTAL: 826 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
TOTAL LOAD: 2729 CALL: 55082 LO/C: 4.95% ABND: 4 SIZE: 18986K
```

Figure 5–1.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 19:55:05
MEM : CMD : TOTAL: 12 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C ADS PRO ASM
ADSCDCOM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 8 16192
ADSCDSTB CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 8 2248
ADSCTCFP CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 2 800
ADSCXCTL CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 5 152
ADSOAGMS CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 140 864
ADSOCDGN CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 5 146392
ADSODBUG CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 10936
ADSOEDIT CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 441 13992
ADSOGEN2 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 120 182488
ADSOMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 926 120464
ADSORUN1 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 80 9328
ADSPCHEK CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 14 5400
TOTAL LOAD: 12 CALL: 1750 LO/C: 0.68% ABND: 0 SIZE: 497K
```

Figure 5–2.

The Selection Criteria feature displays information tailored to each User's needs. In effect, to filter unwanted data or focus on a particular area of interest the User selects a subset of the current screen display using Boolean algebra.

Selection takes place for each column (i.e. field) and multiple columns can be selected simultaneously which results in an implicit AND between columns. The following rules apply.

Numeric fields allow:

- ">", greater than or equal
- "<", less than
- "" (blank), equal

The digits in Numeric fields must be right-justified over their respective column(s).

> Note:
> Numeric specifications are POSITIONAL and must be MANUALLY entered in such a way so that the digits align (right-justified) with the currently-displayed column(s) of digits.

Alphanumeric fields require:

- Literal values that are not necessarily POSITIONAL, but must still be entered somewhere within the width of the currently-displayed column(s)

These steps must be followed to use Selection Criteria:

1. Type the letter "C" in the leftmost position of the first display line, then erase the rest of the description (EOF) and hit ENTER. Refer to Figure 5–1 for an example.

2. Type the required criteria on top of the applicable column(s), on the first display line, using the arrow keys to position the cursor.

3. Press the ENTER key to view the results.

An alternate method of using Selection Criteria would be to type the letter "C" in the leftmost position of the first display line and immediately type the required criteria on top of the applicable column(s) and then hit ENTER. BLANKS must be inserted between intervening fields.

Additionally, a Selection Criteria will produce meaningful column totals, where applicable, for the current specification(s).

Figure 5–2 shows the result of a sample selection. The result is a list of all programs written in ASSEMBLER, loaded at least once and having a load module size greater than or equal to 100,000 bytes. Totals are displayed on the last line.

Note:
A Generic Mask Specification can be used simultaneously with a Selection Criteria specification.

CHAPTER 6:
XOMT Memory Display

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:55:59
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
IRMAP001 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 600 4920
s IRMP0000 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 354 90480
IRMP0004 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 35744
```

Figure 6–1.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *................*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *.............\..*
00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *.........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *..............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./..............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *................*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *................*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *................*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *................*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *................*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *................*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * ..............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * ........... ...*
```

Figure 6–2.

Utilization

In order to display a particular resource's associated control block, a Memory Display feature is available for most FUNCTIONS where control blocks are applicable. A list of the FUNCTIONS having the Memory Display capability is given in Figure 3–3 on page 3-3.

To use Memory Display:

1. Produce a FUNCTION's output display
2. Type an "S" in the first position of the line corresponding to the resource to be displayed
3. Hit ENTER

Figure 6–1 shows an example of a memory display being selected for a resource. The result of this operation is shown in Figure 6–2. The corresponding memory contents are displayed on the screen in both hexadecimal and decimal format. At the left of the screen the memory address and displacement of each line of memory is displayed. A full page displays 304 bytes of memory (19 lines, 16 bytes per line).

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *.............*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *............\..*
00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *.............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./.............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *.............*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *.............*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *.............*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *.............*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *.............*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *.............*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * ............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * .......... ...*
```

Figure 6–3.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *................*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *.............\..*
4 00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *..............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./..............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *................*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *................*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *................*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *................*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *................*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *................*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * .............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * ........... ...*
```

Figure 6–4.

Memory Navigation

It is possible to search for specific data after a Memory Display has been produced and displayed on the screen. This is done either through the use of the "MEM": field which appears near the top left corner of the screen, or by using the first position of each display line. Both methods are described below.

This is followed by discussions of the Saved Address Table and extended PF key assignments.

MEM: field

- Character String

To locate a specific string of characters, the string (must be 8 characters long) is typed in the MEM: field. For shorter strings, a mask must be used to fill the remaining positions. (See Chapter 4 for description of the masks.)

Examples:

```
MEM: IDMSNWKA
MEM: IDMS****
MEM: IDMS##**
```

- Displacements

If known, the address of the data or its displacement within the resource can be used to locate the desired data. The following three addressing modes are available to facilitate memory navigation:

Specific address

```
MEM: 34C8F0
```

Positive/negative displacement

```
MEM: +1C4, or -98
```

Indirect address

```
MEM: @6C
```

(Figure 6–3 illustrates how to access a program's load module which is at displacement X'6C' within the PDE).

- Indexed Addressing

Since the hexadecimal display is made up of four fullwords per line, the number (1 to 4) corresponding to the word to be used as an address is typed in the first position of the corresponding line. The resulting display is the contents of the address specified by the first, second, third or fourth word. Figure 6–4 illustrates the use of this feature.

Saved Address Table

An internal table of up to 40 entries is built and maintained while using the Memory Display features. These entries contain the first 40 addresses to be accessed by the User.

Extended PF key assignments

The following PF keys are used specifically with the Saved Address Table:

- PF4/PF16: Prior address
- PF5/PF17: Next address (Following PF4/PF16 or PF6/PF18)
- PF6/PF18: First address

Memory Navigation examples:

- An active task is in a WAIT state and the DBA wishes to view the storage allocations for it. The following actions could be taken:
  - Select the task from the R3 function by typing an "S" in the first position of the task in question.
  - Since this is the TCE, the first RLE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory.
  - From the RLE, the associated RCE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory. If this RCE is of the type STORAGE, the memory contents are verified.
  - Otherwise, PF4/PF16 is used to return to the first RLE. From the first RLE, the next RLE can be accessed either by typing MEM: @04 or typing a 2 in the first position of the first line in the displayed memory.

From this RLE, its associated RCE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory. If This RCE is of the type STORAGE, the memory contents are verified. Otherwise the process is continued. To review (i.e., re-play) the previous sequence of events, PF6/PF18 would re-display the TCE. From there PF5/PF17 and PF4/PF16 can be used.

- To navigate the subschema table structures (IB51, SR51, or OR52, etc.) the Memory Display feature is used to build the Saved Address Table.

CHAPTER 7:
XOMT Memory Display

This chapter describes additional functions provided by XOMT to supplement the major functions. A list of the functions is given in Figure 3–3 on page 3-3.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 19:57:50
MEM : CMD : TOTAL: 826 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 26 1864
```

Figure 7–1.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 20 09/20/94 08:11:43
MEM : CMD : TOTAL: 75 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
GUT0122X CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 1 2 5256
GUT0651D CDMSLIB LOADLIB PRO ASM ENA NO NO NO N 1 1 14112
GUT0652D CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 1056
GUT0655D CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 6904
GUT0658D CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 264
IDMACFNA CDMSLIB LOADLIB MAP ASM ENA FUL NO NO N 1 10 1992
IDMCVPAR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 2216
IDMPCTIM CDMSLIB LOADLIB PRO ASM ENA FUL YES NO N 1 2 456
IDMPJCL1 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 1400
IDMSCATL CDMSLIB LOADLIB SUB ASM ENA FUL NO NO N 1 1 4112
IDMSCOMP CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 2 17 1552
IDMSDCOM CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 2 18 976
IDMSDMCL CDMSLIB LOADLIB PRO ASM ENA NO NO NO N 1 1 121152
IDMSEXIT CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 1 2720
IDMSEX04 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 1 2 7368
IDMSEX05 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 7992
IDMSEX14 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 1 2 632
IDMSEX16 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 552
IDMSEX17 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 200
```

Figure 7–2.

Vertical Scrolling

The Vertical Scrolling function allows the user to view more information (going forward one page), or to review information (going backward one page). A complete page consists of 19 lines of information.

Function keys:

- PF7/PF19: Scroll backward 1 complete page
- PF8/PF20: Scroll forward 1 complete page

When Vertical Scrolling is activated, the LINE field contains the occurrence number of the resource appearing on the first line of the current display. The total number of occurrences is given in the TOTAL field. Figure 7–1 gives an example of the values appearing in these two fields.

The user has the option of typing directly into the LINE field the occurrence number at which the display should start.

This effectively allows the user to scroll through the list of resources at the user's own pace. Care must be taken to use the EOF key to erase the previous value from the field, after one has keyed in the new value. The default value for LINE is 1. Figure 7–2 illustrates this facility.

IMPORTANT! When the Selection Criteria is used, care must be taken to insure that the LINE value is less than or equal to the TOTAL value corresponding to the user's Selection Criteria, otherwise, a blank display will appear. To obtain a complete display, the user must type the value 1 in the LINE field, or use the PF7/PF19 key to scroll backward.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: AR RESOURCE: LINE: 1 08/22/94 19:58:25
MEM : CMD : TOTAL: 249 PF1/PF13 (HELP) V10
AREA NAME ----- STA PAGSZ LO-PAGE HI-PAGE PGGRP TYPE
CATSYS.DDLCAT UPD 5064 16060001 16060400 0 S
CATSYS.DDLCATX UPD 5064 16065001 16065100 0 S
CATSYS.DDLCATLOD UPD 5064 16070001 16073000 0 S
DDDOC.DDLDML RET 11476 35001 47000 0 S
DICTES.DDLDML RET 10796 2040001 2085000 0 S
DICTTEST.DDLDML UPD 11476 200001 236000 0 S
DLODTEST.DDLDCLOD UPD 7476 9001 9900 0 S
DMLO.USD-DATA-AREA UPD 3476 75000 76499 0 S
GEICRPT.GEIIR01-REQPRO RET 15476 2401001 2401125 0 S
GEICRPT.GEIIR03-PROCON RET 15476 2403001 2403125 0 S
GGGTEST.GGGIR02-DECIS UPD 4276 1402001 1402020 0 S
GGGTEST.GGGIR03-CLEPER UPD 4276 1403001 1403060 0 S
GGGTEST.GGGIR04-DEMPER UPD 15476 1404001 1404010 0 S
GGGTEST.GGGIR05-HISADR UPD 15476 1405001 1405020 0 S
GGGTEST.GGGIR06-INDX UPD 15476 1406001 1406002 0 S
GGGTEST.GGGIR07-CLEVEH UPD 15476 1407001 1407240 0 S
GGGTEST.GGGIR08-CLEPLA UPD 4276 1408001 1408040 0 S
GGGTEST.GGGIR09-PERATT UPD 15476 1409001 1409010 0 S
GGGTEST.GGGIR10-ANCNOM UPD 15476 1410001 1410010 0 S
```

Figure 7–3.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: AR RESOURCE: LINE: 1 08/22/94 19:58:37
MEM : CMD : TOTAL: 249 PF1/PF13 (HELP) V10
AREA NAME------ BUFFER READ WRIT BUFFER RATIO
CATSYS.DDLCAT BUGENERAL 118 1 155 2.31
CATSYS.DDLCATX BUGENERAL 3 1 2 1.66
CATSYS.DDLCATLOD BUGENERAL 3 1 0 1.00
DDDOC.DDLDML BUGENERAL-02 0 0 0 0.00
DICTES.DDLDML BUDICTDB 0 0 0 0.00
DICTTEST.DDLDML BUDICTDB 33561 3236 273926 9.16
DLODTEST.DDLDCLOD BUGENERAL 2 1 1 1.50
DMLO.USD-DATA-AREA BUGENERAL 263 130 2056 8.81
GEICRPT.GEIIR01-REQPRO BUGENERAL-02 0 0 0 0.00
GEICRPT.GEIIR03-PROCON BUGENERAL-02 0 0 0 0.00
GGGTEST.GGGIR02-DECIS BUGENERAL 2 2 4 3.00
GGGTEST.GGGIR03-CLEPER BUGENERAL 18 13 58 4.22
GGGTEST.GGGIR04-DEMPER BUGENERAL-02 1 1 0 1.00
GGGTEST.GGGIR05-HISADR BUGENERAL-02 16 3 11 1.68
GGGTEST.GGGIR06-INDX BUGENERAL-02 1 1 0 1.00
GGGTEST.GGGIR07-CLEVEH BUGENERAL-02 147 55 1195 9.12
GGGTEST.GGGIR08-CLEPLA BUGENERAL 82 12 131 2.59
GGGTEST.GGGIR09-PERATT BUGENERAL-02 117 1 217 2.85
GGGTEST.GGGIR10-ANCNOM BUGENERAL-02 3 1 1 1.33
```

Figure 7–4.

Horizontal Scrolling

The Horizontal Scrolling function allows the user to view information to the right or to the left of the current display, like a window moving over the data.

Function keys

- PF10/PF22: Left scrolling
- PF11/PF23: Right scrolling

This function is available with selected major functions (see Figure 7–3 for details).

To demonstrate the use of Horizontal Scrolling, Figure 7–3 shows the first screen for the AR FUNCTION and Figure 7–4 is the Secondary Display obtained after the user has pressed the PF11/PF23 key.

Note:
Horizontal Scrolling can be used even after Generic Mask and/or Selection Criteria have been specified.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: S2 RESOURCE: LINE: 1 08/22/94 19:59:31
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
START ==> TIME 6:21:48.46 DATE: 94/234 ACTUAL ==> DATE: 94/234
DB CALLS : 733907 /SEC : 0.70
CALC NOFLO: 749 /SEC : 0.00
VIA NOFLO : 5515 /SEC : 0.00
CALC OVFLO: 261 /SEC : 0.00
VIA OVFLO : 680 /SEC : 0.00
PAGE RQST : 685723 /SEC : 0.17
PAGE READ : 76081 /SEC : 0.00
PAGE WRITE: 5953 /SEC : 0.00
QUEUE. GET: 4498 PUT: 856 DEL: 603 GET/SEC : 0.00
SCRAC. GET: 18342 PUT: 28189 DEL: 28158 GET/SEC : 0.00
REC RQST : 804121 REC CUR R/U : 530273
REC RELOC : 0 FRAG STORD : 114
XT037 AUTO REFRESH STOP: PF3/PF15 INTER.:5 SEC PF20:+5 SEC, PF19:-1 SEC
```

Figure 7–5.

Automatic/Manual Screen Refresh

This function allows the data displayed on the screen to be refreshed to reflect the current status of the displayed resources, as obtained from the CA-IDMS control blocks in core.

Manual Mode

This manual mode is activated by pressing the ENTER key. It is available with all major FUNCTIONS.

Automatic Mode

This automatic mode is activated by pressing the PF9/PF21 key. From then on, the display is refreshed every 5 seconds, which is the default interval. The user can alter this interval dynamically by using the following keys:

- PF19: The interval is reduced by 1 second (minimum interval is 2 seconds).
- PF20: The interval is increased by 5 seconds (no maximum interval).

The interval is expressed in wall-clock seconds.

The automatic mode is deactivated by pressing the PF3/PF15 key.

Figure 7–4 gives a list of every FUNCTION where the automatic mode is used. When this mode is activated, an information message is displayed at the bottom of the screen (see Figure 7–5).

Automatic mode is available to CA-IDMS/DC Users only.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: RESOURCE: LINE: 39 09/20/94 08:12:41
MEM : CMD : TOTAL: 75 PF1/PF13 (HELP) V10
SEARCH BY 'MASK':YOU CAN SPECIFY A MASK IN THE
'RESOURCE' FIELD
POSSIBLE VALUES : @ . ALPHABETIC CHARACTER
FOR MASK # . NUMERIC CHARACTER
* . ALPHANUMERIC CHARACTER
EX: FUNCTION : P
RESOURCE : IRM#####
DISPLAY ALL PROGRAMS STARTING WITH
'IRM' FOLLOWED BY 5 NUMERIC CHARACTERS
NEXT PAGE : SEARCH BY SELECTION CRITERIA
PF7/PF19: BACKWARD PF8/PF20: FORWARD PF3/PF15: RETURN EX/CLEAR: END
```

Figure 7–6.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: TC RESOURCE: LINE: 1 09/20/94 08:12:58
MEM : CMD : TOTAL: 75 PF1/PF13 (HELP) V10
TASK PROGRAM DDNAM/V# INP STA RUNAW STALL R.T.I PRI CALL DYN LOC
FIELD MEANING OTHER FUNCTIONS:
TASK : TASK CODE SEL. CRIT. = TOTALS
PROGRAM : PROGRAM INVOKED BY THE TASK PF 7/19 BACKWARD
DDNAM/V#: PROGRAM VERSION PF 8/20 FORWARD
INPUT : TASK DEFINED WITH 'INPUT' PARAMETER PF10/22 LEFT
STAT : TASK STATUS (ENABLED,DISABLED) (YES/NO) PF11/23 RIGHT
RUNAWAY : RUNAWAY TIME IN WALL-CLOCK SECONDS PF 9/21 REFRESH ON
STALL : STALL TIME IN WALL-CLOCK SECONDS PF 3/15 REFRESHOFF
R.T.I : RESOURCE TIMEOUT INTERVAL IN WALL-CLOCK SECONDS PF19 -1 SEC
PRI : PRIORITY PF20 +5 SECS
CALL : NUMBER OF TIMES TASK WAS CALLED
DYN : TASK DYNAMICALLY DEFINED (YES/NO)
LOC : BEL: BELOW 16 MEG ANY: ABOVE 16 MEG
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
E: VARY TASK IN SERVICE (ENABLE); D: VARY TASK OUT OF SERVICE (DISABLE)
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 7–7.

Global/Selective HELP

The Online HELP feature provides information on the use of XOMT. Both Global and Selective HELP modes are available.

Global HELP

Global HELP is activated by typing blank characters in the FUNCTION field and pressing the PF1/PF13 keys. XOMT then displays online documentation on the major FUNCTIONS. The user can scroll up and down through the text, as explained in Chapter 7. It is possible, at all times, to move from Global HELP to Selective HELP, as explained below:

Selective HELP

To activate the Selective HELP, the user types the required FUNCTION code in the FUNCTION: field and presses the PF1/PF13 key. If the FUNCTION field is already initialized with a FUNCTION code, pressing the PF1/PF13 key will invoke Selective HELP.

Note:
In both modes, once the HELP function is in use, the ENTER key is equivalent to the PF1/PF13 keys.

ENTER key is equivalent to the PF1/PF13 keys.

Figure 3–3 on page 3-3 gives details about the availability of the HELP function. An information message is displayed at the bottom of the screen in both modes.

Examples of a Global HELP screen and a Selective HELP screen are given in Figure 7–6 and Figure 7–7, respectively.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:03:00
MEM : CMD : TOTAL: 826 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
TOTAL LOAD: 2729 CALL: 55193 LO/C: 4.94% ABND: 5 SIZE: 18986K
```

Figure 7–8.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:04:50
MEM : CMD : TOTAL: 89 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C >100
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPGPRT CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 481 6904
ADAPMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 466 3928
ADSA CDMSLIB LOADLIB DIA ADS ENA FUL NO NO N 1 325 26352
ADSAMMEN CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 290 2032
ADSCCOMD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 218 84928
ADSCPROD CDMSLIB LOADLIB DIA ADS ENA FUL NO YES N 1 321 59304
ADSCSELB CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 430 64
ADSCT234 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 174 56
ADSOAGMS CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 140 864
ADSOEDIT CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 441 13992
ADSOGEN2 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 120 182488
ADSOMAIN CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 926 120464
GCAIV01 CDMSLIB LOADLIB SUB ASM ENA FUL NO YES N 1 1984 17536
GCAIV012 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 132 15008
TOTAL LOAD: 256 CALL: 44639 LO/C: 0.57% ABND: 0 SIZE: 1765K
```

Figure 7–9.

Totals

The XOMT totals feature produces computed results for some components of the CA-IDMS environment.Figure 3–3 on page 3-3 describes where this feature is available.

The Totals feature is functional only after a Selection Criteria has been issued. Refer to Figure 7–8 for an example.

When a secondary display is presented after Horizontal Scrolling, or after specifying a Selection Criteria, totals are still calculated (see Figure 7–9).

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:05:53
MEM : CMD : TOTAL: 826 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
$ACF@TAT CDMSLIB PRIMARY TBL ASM ENA FUL NO YES N 2 82 892
$TOOLTCF CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 702 920
ACFBLDIR CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 4 1096
ACF2EX02 CDMSLIB LOADLIB PRO ASM ENA FUL YES YES N 2 2 424
ADAHABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 10 32536
ADAHGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 1 6144
ADAHTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 2 17864
ADAMABLD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 380 5272
ADAMFIND CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 8 4504
ADAMGOP1 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 60 2192
ADAMGOP2 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 37 1608
ADAMGREC CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 28 3776
ADAMSUMM CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 4 2824
ADAMTCOD CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 98 3728
ADAPABLD CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 234 9560
ADAPAGNM CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 906 108152
ADAPFIND CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 6 2472
ADAPGOP1 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 50 2416
ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 26 1864
```

Figure 7–10.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:06:19
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C IRM
IRMAP001 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 666 4920
IRMP0000 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 382 90480
IRMP0004 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 2 35744
TOTAL LOAD: 3 CALL: 1050 LO/C: 0.28% ABND: 2 SIZE: 128K
```

Figure 7–11.

Attribute Updates

After the user has made a selection request, some attributes of the CA-IDMS environment can be updated. Not all major functions support this update feature. Figure 7–10 describes which ones do. One or more components can be updated simultaneously independent of the Selection Criteria and/or the Generic mask.

The steps required to perform an Attribute Update are:

1. Specify the required function (Figure 7–10).
2. Select the criteria (Figure 7–11), if applicable.
3. On the resulting display, type the update code in the first position for the resource(s) to be modified (Figure 7–12)

These examples illustrate how to turn Storage Protect ON for all programs whose name begins with the letters "IRM".

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:06:19
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C IRM
IRMAP001 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 666 4920
p IRMP0000 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 382 90480
p IRMP0004 CDMSLIB LOADLIB PRO ASM ENA FUL NO NO N 1 2 35744
TOTAL LOAD: 3 CALL: 1050 LO/C: 0.28% ABND: 2 SIZE: 128K
```

Figure 7–12.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 08/22/94 20:07:07
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
C IRM
IRMAP001 CDMSLIB LOADLIB UND ASM ENA FUL NO YES N 1 668 4920
IRMP0000 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 383 90480
IRMP0004 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 2 35744
XT007 REQUEST ACCEPTED

ADAPGOP2 CDMSLIB LOADLIB PRO ASM ENA FUL NO YES N 1 26 1864
```

Figure 7–13.

A message will be displayed to confirm the update (Figure 7–13).

```
XOMT USER REFERENCE GUIDE 155
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: LINE: 1 09/20/94 08:13:26
MEM : CMD : TOTAL: 75 PF1/PF13 (HELP) V10
PROGRAM DDNAM/V# FROM TYP LAN STA REE RES PRO DY LOAD CALL SIZE
FIELD MEANING OTHER FUNCTIONS:
PROGRAM : PROGRAM NAME SEL. CRIT. = TOTALS
DDNAM/V#: PROGRAM VERSION PF 7/19 BACKWARD
FROM : PROGRAM LOADED FROM PF 8/20 FORWARD
TYP : PROGRAM TYPE (PRO,SUB,DIA,MAP,UND,NUC,DRV) PF10/22 LEFT
LAN : PROGRAM LANGUAGE (COB,ADS,ASM,FOR,PL1) PF11/23 RIGHT
STA : PROGRAM STATUS (ENA,DIS) PF 9/21 REFRESH ON
REE : REENTRANT PROGRAM (FUL,QUA,NON) PF 3/15 REFRESHOFF
RES : RESIDENT (Y/N) ,PRO : PROTECT (Y/N) PF19 -1 SEC
DY : PROGRAM IS DYNAMICALLY DEFINED (Y/N) PF20 +5 SECS
LOAD : TIMES LOADED ,CALL: TIMES CALLED
SIZE : SIZE IN BYTES
=====> TO VIEW PDE (#PDTDS) TYPE 'S' IN FIRST COLUMN
=====> TO UPDATE ATTRIBUTES TYPE APPROPRIATE CODE IN FIRST COLUMN
N: VARY PROGRAM NEW COPY (REFRESH)
E: VARY PROG IN SERVICE (ENABLE) D: VARY PROG OUT OF SERVICE (DISABLE)
P: STORAGE PROTECT 'YES' U: STORAGE UNPROTECT 'NO'
XT033 =>PF3/PF15 : RETURN<= FOR GLOBAL HELP INSERT BLANKS IN 'FUNCTION'
```

Figure 7–14.

The valid update codes are given on the Selective HELP screen for the FUNCTION (obtained by hitting PF1/PF13, as seen in Chapter 7). Refer to Figure 7–14 for an example of such a Selective HELP screen with the valid codes at the bottom of the page.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *................*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *.............\..*
00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *..............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./..............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *................*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *................*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *................*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *................*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *................*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *................*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * ..............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * ........... ...*
```

Figure 7–15.

Utilization

In order to display a particular resource's associated control block, a Memory Display feature is available for most FUNCTIONS where control blocks are applicable. A list of the FUNCTIONS having the Memory Display capability is given in Figure 3–3 on page 3-3.

To use Memory Display:

1. Produce a FUNCTION's output display
2. Type an "S" in the first position of the line corresponding to the resource to be displayed
3. Hit ENTER

Figure 7–15 shows an example of a memory display being selected for a resource. The result of this operation is shown in Figure 7–15. The corresponding memory contents are displayed on the screen in both hexadecimal and decimal format. At the left of the screen the memory address and displacement of each line of memory is displayed. A full page displays 304 bytes of memory (19 lines, 16 bytes per line).

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *................*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *.............\..*
00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *.........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *..............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./..............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *................*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *................*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *................*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *................*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *................*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *................*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * ..............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * ........... ...*
```

Figure 7–16.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PC RESOURCE: IRM******* LINE: 1 08/22/94 19:56:18
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00135AA0 00000000 . C9D9D4D7 F0F0F0F0 0009E8F0 40400002 *IRMP0000..Y0 ..*
00135AB0 00000010 . 00000000 00000000 00000000 40000000 *............ ...*
00135AC0 00000020 . 00000000 13000000 40000000 002B06CC *........ .......*
00135AD0 00000030 . 14000000 80296674 00296674 00000000 *................*
00135AE0 00000040 . 00000000 00135B8C 0009E7A8 00000000 *......$...X.....*
00135AF0 00000050 . 00010000 00000000 01000000 04E00000 *.............\..*
4 00135B00 00000060 . 00050000 00000000 00016170 004DEA00 *........../..(..*
00135B10 00000070 . 03000000 00938FA0 C9D9D4D7 F0F0F0F0 *........IRMP0000*
00135B20 00000080 . 00021701 002C0003 01000000 0000C2E2 *..............BS*
00135B30 00000090 . 01617034 78000000 88030201 00000000 *./..............*
00135B40 000000A0 . 00000000 00000000 00000000 00000000 *................*
00135B50 000000B0 . 00000000 00000000 00000000 00000000 *................*
00135B60 000000C0 . 00000000 00000000 00000000 00000000 *................*
00135B70 000000D0 . 00000000 00000000 00000000 00000000 *................*
00135B80 000000E0 . 00000000 00000000 00000000 06000000 *................*
00135B90 000000F0 . 00000000 00000163 00000001 00000000 *................*
00135BA0 00000100 . 00000000 C9D9D4D7 F0F0F0F4 0009E8F0 *....IRMP0004..Y0*
00135BB0 00000110 . 40400002 00000000 00000000 00000000 * .............*
00135BC0 00000120 . 40000000 00000000 13000000 40000000 * ........... ...*
```

Figure 7–17.

Memory Navigation

It is possible to search for specific data after a Memory Display has been produced and displayed on the screen. This is done either through the use of the "MEM": field which appears near the top left corner of the screen, or by using the first position of each display line. Both methods are described below.

This is followed by discussions of the Saved Address Table and extended PF key assignments.

MEM: field

- Character String

To locate a specific string of characters, the string (must be 8 characters long) is typed in the MEM: field. For shorter strings, a mask must be used to fill the remaining positions. (See Chapter 4 for description of the masks.)

Examples:

```
MEM: IDMSNWKA
MEM: IDMS****
MEM: IDMS##**
```

- Displacements

If known, the address of the data or its displacement within the resource can be used to locate the desired data. The following three addressing modes are available to facilitate memory navigation:

Specific address

```
MEM: 34C8F0
```

Positive/negative displacement

```
MEM: +1C4, or -98
```

Indirect address

```
MEM: @6C
```

(Figure 7–16 illustrates how to access a program's load module which is at displacement X'6C' within the PDE).

- Indexed Addressing

Since the hexadecimal display is made up of four fullwords per line, the number (1 to 4) corresponding to the word to be used as an address is typed in the first position of the corresponding line. The resulting display is the contents of the address specified by the first, second, third or fourth word. Figure 7–17 illustrates the use of this feature.

Saved Address Table

An internal table of up to 40 entries is built and maintained while using the Memory Display features. These entries contain the first 40 addresses to be accessed by the User.

Extended PF key assignments

The following PF keys are used specifically with the Saved Address Table:

- PF4/PF16: Prior address
- PF5/PF17: Next address (Following PF4/PF16 or PF6/PF18)
- PF6/PF18: First address

Memory Navigation examples:

- An active task is in a WAIT state and the DBA wishes to view the storage allocations for it. The following actions could be taken:
  - Select the task from the R3 function by typing an "S" in the first position of the task in question.
  - Since this is the TCE, the first RLE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory.
  - From the RLE, the associated RCE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory. If this RCE is of the type STORAGE, the memory contents are verified.
  - Otherwise, PF4/PF16 is used to return to the first RLE. From the first RLE, the next RLE can be accessed either by typing MEM: @04 or typing a 2 in the first position of the first line in the displayed memory.

From this RLE, its associated RCE can be accessed either by typing MEM: @08 or typing a 3 in the first position of the first line in the displayed memory. If This RCE is of the type STORAGE, the memory contents are verified. Otherwise the process is continued. To review (i.e., re-play) the previous sequence of events, PF6/PF18 would re-display the TCE. From there PF5/PF17 and PF4/PF16 can be used.

- To navigate the subschema table structures (IB51, SR51, or OR52, etc.) the Memory Display feature is used to build the Saved Address Table.

CHAPTER 8: XOMT Memory Display

This section describes the procedures for installing and operating XOMT. The operating system memory and disk space, as well as requirements are discussed.

Environment

XOMT is designed to operate in any MVS, MVS/XA or MVS/ESA environment. Release 10.0 and later of CA-IDMS/DC-UCF are supported.

IMPORTANT NOTE: Data on XOMT AR and BU screens is valid only if PTF 85-11-1067 (Release 10.0) has been applied to the CA-IDMS/DC-UCF environment.

Component Generation

The generation of the XOMT components is a two-step process:

- Load the executable modules found on the installation tape into the load library.
- Run the CA-IDMS/DC-UCF System Generation Compiler to define the new components to the environment.

The steps are described in detail below.

Library Load

To load the library, use the IEBCOPY utility. The installation tape has standard labels and a 6250 BPI density. Sample JCL follows:

```
//JOBCARD
//*
//STEP1 EXEC PGM=IEBCOPY
//OUTCMMT1 DD DSN=your.cmmt.loadlib,DISP=SHR
//OUTCMMT2 DD DSN=your.xomt.loadlib,DISP=SHR
//OUTCMMT3 DD DSN=your.HLQ.srclib,DISP=SHR
//INCMMT1 DD DSN=CMMT.PRODLIB,VOL=SER=CT9501,
// DISP=OLD,
// UNIT=3480,LABEL=(1,SL),DCB=TRTCH=NOCOMP
//INCMMT2 DD DSN=XOMT.PRODLIB,
// DISP=OLD,DCB=TRTCH=NOCOMP,
// UNIT=3480,VOL=(REF=*.INCMMT1),LABEL=(2,SL)
//INCMMT3 DD DSN=AQUI.SRCLIB,
// DISP=OLD,DCB=TRTCH=NOCOMP,
// UNIT=3480,VOL=(REF=*.INCMMT1),LABEL=(3,SL)
//SYSUT3 DD UNIT=PUBLIC,SPACE=(TRK,(1,1))
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
COPY OUTDD=OUTCMMT1,INDD=((INCMMT1,R))
COPY OUTDD=OUTCMMT2,INDD=((INCMMT2,R))
```

```
COPY OUTDD=OUTCMMT3,INDD=((INCMMT3,R))
/*
//
```

Component definitions

Run the SYSGEN compiler to define the components in the CA-IDMS/DC-UCF environment. The SYSGEN for this new release MUST be updated from the previous releases.

For new installations:

```
ADD PROGRAM IRMPSTUB LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM IRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM JRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM LRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM KRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM IRMP0004 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM IRMAP001 LANGUAGE ASSEMBLER MAP NOPROTECT REENTRANT.
ADD TASK XOMT INV IRMPSTUB SAVE RES INT OFF STO LIM OFF CALL LIM OFF.
ADD TASK XOMT1 INV IRMPSTUB SAVE RES INT OFF STO LIM OFF CALL LIM OFF.
```

For version upgrades:

```
ADD PROGRAM IRMPSTUB LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM LRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
ADD PROGRAM KRMP0000 LANGUAGE ASSEMBLER NOPROTECT REENTRANT.
MOD TASK XOMT INV IRMPSTUB.
MOD TASK XOMT1 INV IRMPSTUB.
```

IMPORTANT: Do not forget to include the library name containing the XOMT modules under the CDMSLIB DDNAME of the CV startup JCL.

Operation Mode

XOMT runs as a "standard" application within the CA-IDMS/DC-UCF environment. XOMT is activated by typing the XOMT task code on the "ENTER NEXT TASK CODE" screen, as defined in the previous section.

8.4 Memory Requirements

To execute XOMT in the CA-IDMS/DC-UCF environment, there must be sufficient memory space for the XOMT modules and work areas. The XOMT modules have the following memory requirements:

- IRMP0000 (control program) 88K
- IRMP0004 (Documentation) 35K
- IRMAP001 (MAP) 5K

In addition, a work area is acquired at runtime for each active user. The characteristics of each work area are:

- Identification IRST

- Size 4K
- Attributes USER, SHORT, KEEP

Disk Space Requirements

XOMT requires that the modules be placed in a load library to allow execution at runtime. The disk space required is:

- Record Format U
- Blocksize 19069
- Data Blocks 10
- Directory Blocks 2

The number of required tracks is device-dependent and varies for each installation.

CHAPTER 9: XOMT Memory Display

CT001 - *** CSA address cannot be found*********
In CMMT, the requested CA-IDMS Central Version is not available; it is either warmstarting or crashing.

CT002 - ******TCB IDMS currently ABENDING******
The selected CA-IDMS Central Version is currently ABENDING. This is detected in the TCB's TCBCMP field.

CT003 - ******Cannot access: SWAPPABLE******
CA-IDMS region has been defined as SWAPPABLE to the MVS operating system.

CT004 - ******Cannot access: ASID invalid******
The selected CA-IDMS Central Version's ASID is invalid.

CT005 - ******CV not active******
The selected Central Version is inactive. This could happen in the time span between CMMT's Main Menu display and actual CV selection. It could also happen within a CMMT session whenever a CV terminates normally or abnormally.

CT006 - *****Technical problem with POST*****
When cancelling a task from CMMT, there is no activity in the Central Version, posting cannot take place.

CT007 - ******This CV is not a IDMS-CV Release 10.2******
When running CMMT for Release 10.2, the selected CA-IDMS Central Version is not a Release 10.2 CV.

XT001 - Contents to be restored do not match the original one.
In memory navigation, if an update is made, the restore operation is not possible since the current data does not match the initial value.

XT002 - Field not found in the partition, you are at the CA-IDMS highest address.
In memory navigation, data value is not found.

XT003 - Invalid addressing mode, valid values are 1,2,3,4.
In memory navigation, using indexed addressing, a character other than 1,2,3 or 4 has been typed in the first column.

XT004 - Invalid hexadecimal characters.
In memory navigation, the hexadecimal characters appearing in the MEM field are unrecognizable.

XT005 - Memory contents restored.
In memory navigation, a memory update RESTORE command has been successfully executed.

XT006 - New copy not allowed.
The program cannot be marked as new copy, check its definition.

XT007 - Request accepted.
Request has been successfully executed.

XT008 - Requested address is zero; press ENTER.
In memory navigation, the address typed is zero, press the ENTER key to resume execution.

XT009 - Requested address is negative; press ENTER.
In memory navigation, the address typed is negative, press the ENTER key to resume execution.

XT010 - Requested string not found (1 Meg. 1024000 bytes) searched.
In memory navigation, the value specified in the MEM; field has not been found after searching one

megabyte of memory; press ENTER to resume search.

XT011 - Subschema not found in the load area(s)/loadlib(s).
Even if a program definition element (PDE) exists for the subschema, its load module is not found.

XT012 - This is the first displayed address.
In memory navigation, the first address' contents are displayed; all the addresses are kept in a saved address table.

XT013 - This is the last displayed address.
In memory navigation, the current address' contents are displayed for the last address kept in the saved address table.

XT014 - Unable to display memory at this address (OUT/PROTECT).
In memory navigation, the required address cannot be reached since it resides outside the CA-IDMS region.

XT015 - Unable to save the address last referenced; table full.
In memory navigation, the last accessed address cannot be saved since there is no more room in the saved address table (maximum 40 entries kept).

XT016 - Request not authorized.
Under discrete security control, the command vary program new copy is not executed; the user must be defined in the user-id security table (PRMPSECU).

XT017 - Report not found.
Trying to delete a report and it is not found (either deleted or printed).

XT018 - Function code required.
The function code must be typed in the FUNCTION field.

XT019 - Load module not found.
At install time and also using Selective HELP, only the Global HELP feature is available if the HELP module is disabled.

XT020 - Autorefresh => STOP PA1/ALT-SYSRQ.
Using CMMT, the above command interrupts the automatic screen refresh feature.

XT021 - Invalid function.
The function code does not exist. Type IN (initial display) in the FUNCTION: field for a list of valid function codes.

XT022 - Vary program New Copy first, then Enable.
The command Vary program New Copy is not executed; the program must be Enabled before Varying it to New Copy.

XT023 - Program unknown to CV.
In function DC, the requested program is not found; no program definition element (PDE) exists for the program.

XT024 - Enter program name
In function DC, the program name must be typed in the RESOURCE field.

XT025 - Date compiled not available for the requested load module.
In an ASSEMBLER program, the variable &SYSDATE has not been specified.

XT026 - Program not found in the load area(s)/loadlib(s).
Even if a program definition element (PDE) exists for the program, its load module is not found.

XT027 - Highlighted field => line problem.
In function LI and PT, an external physical line problem is detected.

XT028 - No printers defined to system.
No printer definitions have been specified in the SYSGEN.

XT029 - No destination defined to system.
No destinations have been defined in the SYSGEN.

XT030 - Task cancelled.
In sub-functions R3 and R4, confirmation message for cancellation of task.

XT031 - To CANCEL a Task; use FUNCTION R3.

XT032 - Function not available to CMMT.
The #LOAD macro command is not available through cross memory services, making function DC and function SC unavailable in CMMT.

XT033 - = > PF3/PF15: RETURN < = for Global HELP insert blanks in 'FUNCTION:'.
Press PF3/PF15 key to exit from the Selective HELP feature; move blanks in the FUNCTION: field to access the Global HELP feature.

XT034 - = > PF3/PF15: RETURN < = Documentation not available for this search.
Only the Global HELP feature is available for this function.

XT035 - Signon required.
Under the discrete security control, the user must first signon on the CA-IDMS/DC prompt screen in order to get access to the update command required.

XT036 - Unable to modify the memory contents for this address (OUT/PROTECT).
Using the command Vary Memory, the update request is rejected, display only is allowed.

XT037 - Autorefresh STOP: PF3/PF15 INTER.: 5 SEC PF20: + 5 SEC PF19: -1 SEC.
Valid function keys to update the automatic screen refresh feature.

APPENDIX A:
XOMT Memory Update

WARNING! This section contains restricted information. Improper use of the memory update feature, voluntarily or by accident, can have disastrous consequences on the availability/integrity of the CA-IDMS/DC-UCF environment. Extreme caution must be exercised in its use.

Overview

XOMT has a special feature allowing the user to update the memory contents of the CA-IDMS/DC-UCF environment. There is no need to shutdown the Central Version, nor vary it offline/online, to use this feature.

This appendix describes the facilities available to modify dynamically the address space contents of CA-IDMS/DCUCF.

Following are but a few practical examples of the use of this powerful facility:

- Change the date/time stamp in a module
- Apply a PTF in memory (on-the-fly)
- Assign/modify Security classes
- Change task attributes (e.g. INPUT/NOINPUT, INTERNAL/EXTERNAL)
- Change program definition (e.g. from COBOL to ASSEMBLER)

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:14:20
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PTERM-ID LTERM-ID PLINE-ID TYP PST LST TERM-ID CLAS DESTINAT READ WRIT ER AQ
I03A5012 L03A5012 VTAM10 PRI DIS INS I03A5012 1 *DESTINV 0 0 0 Y
I03A551A XLTIM002 VTAM10 PRI DIS INS I03A551A 1 *DESTINV 0 0 0 Y
I03A5519 XLTIM003 VTAM10 PRI DIS INS I03A5519 1 *DESTINV 0 0 0 Y
```

Figure A–1.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:14:20
MEM : CMD : TOTAL: 3 PF1/PF13 (HELP) V10
PTERM-ID LTERM-ID PLINE-ID TYP PST LST TERM-ID CLAS DESTINAT READ WRIT ER AQ
s I03A5012 L03A5012 VTAM10 PRI DIS INS I03A5012 1 *DESTINV 0 0 0 Y
I03A551A XLTIM002 VTAM10 PRI DIS INS I03A551A 1 *DESTINV 0 0 0 Y
I03A5519 XLTIM003 VTAM10 PRI DIS INS I03A5519 1 *DESTINV 0 0 0 Y
```

Figure A–2.

Methodology

In order to update the memory contents, it is first necessary to display the internal structure of the selected resource.

The ME function, explained in Chapter 3, is used to display the memory contents associated with resources. In addition, many other FUNCTIONS display memory contents and also allow memory updates (refer to Figure 3–3 on page 3-3). The reader should be familiar with Chapter 6, where a description of the memory display feature is given.

The following steps are required to update a memory address:

o Select any FUNCTION that supports the Memory Display feature, optionally supplying a Generic Mask and/or Selection Criteria (Figure A–1).

- Display memory for the required resource by typing an 'S' in the first position of the line (Figure A–2).
- The MEM field is updated to contain the hexadecimal value of the word to replace the old data; and the CMD field is updated to contain the "VARY" command. Note that the CMD field is darkened.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:14:58
MEM : 00000000 CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00068A48 00000000 . C9F0F3C1 F5F0F1F2 00068968 00068BC8 *I03A5012.......H*
00068A58 00000010 . 0005D5E8 00000000 00000000 002B5ACC *..NY............*
00068A68 00000020 . 17000000 0EF20400 00068BA0 00000000 *.....2..........*
00068A78 00000030 . 00000000 00000000 00000000 00000000 *................*
00068A88 00000040 . 00000000 00000000 00000000 03000000 *................*
00068A98 00000050 . 00500018 00000010 00010000 00000000 *................*
00068AA8 00000060 . 00000000 00000000 00000000 00000000 *................*
00068AB8 00000070 . 00000000 00000000 00000000 00000000 *................*
00068AC8 00000080 . 00000000 00000000 00000000 00000000 *................*
00068AD8 00000090 . 00000000 01000000 00980000 00000000 *................*
00068AE8 000000A0 . 00000000 40404000 00000000 00000000 *.... .........*
00068AF8 000000B0 . 00000000 00000000 00000000 00000000 *................*
00068B08 000000C0 . C9F0F3C1 F5F0F1F2 C0000000 00000000 *I03A5012........*
00068B18 000000D0 . 00000000 00000000 00000000 00000000 *................*
00068B28 000000E0 . 00000000 00000000 00000000 00000000 *................*
00068B38 000000F0 . 00000000 00000000 00000000 00000000 *................*
00068B48 00000100 . 00000000 00000000 00000000 00000000 *................*
00068B58 00000110 . 00000000 00000000 00000000 00000000 *................*
00068B68 00000120 . 00000000 00000000 00000000 00000000 *................*
```

Figure A–3.

Note:
NOTE: Memory update works with a full word: 8 characters must always be typed in the MEM field.

Refer to Figure A–3 for an example of how to modify a physical terminal's PTE contents.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:14:58
MEM : 00000000 CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00068A48 00000000 . C9F0F3C1 F5F0F1F2 00068968 00068BC8 *I03A5012.......H*
00068A58 00000010 . 0005D5E8 00000000 00000000 002B5ACC *..NY............*
00068A68 00000020 . 17000000 0EF20400 00068BA0 00000000 *.....2..........*
00068A78 00000030 . 00000000 00000000 00000000 00000000 *................*
00068A88 00000040 . 00000000 00000000 00000000 03000000 *................*
00068A98 00000050 . 00500018 00000010 00010000 00000000 *................*
2 00068AA8 00000060 . 00000000 00000000 00000000 00000000 *................*
00068AB8 00000070 . 00000000 00000000 00000000 00000000 *................*
00068AC8 00000080 . 00000000 00000000 00000000 00000000 *................*
00068AD8 00000090 . 00000000 01000000 00980000 00000000 *................*
00068AE8 000000A0 . 00000000 40404000 00000000 00000000 *.... .........*
00068AF8 000000B0 . 00000000 00000000 00000000 00000000 *................*
00068B08 000000C0 . C9F0F3C1 F5F0F1F2 C0000000 00000000 *I03A5012........*
00068B18 000000D0 . 00000000 00000000 00000000 00000000 *................*
00068B28 000000E0 . 00000000 00000000 00000000 00000000 *................*
00068B38 000000F0 . 00000000 00000000 00000000 00000000 *................*
00068B48 00000100 . 00000000 00000000 00000000 00000000 *................*
00068B58 00000110 . 00000000 00000000 00000000 00000000 *................*
00068B68 00000120 . 00000000 00000000 00000000 00000000 *................*
```

Figure A–4.

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.0 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:19:16
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00068A48 00000000 . C9F0F3C1 F5F0F1F2 00068968 00068BC8 *I03A5012.......H*
00068A58 00000010 . 0005D5E8 00000000 00000000 002B5ACC *..NY............*
00068A68 00000020 . 17000000 0EF20400 00068BA0 00000000 *.....2..........*
00068A78 00000030 . 00000000 00000000 00000000 00000000 *................*
00068A88 00000040 . 00000000 00000000 00000000 03000000 *................*
00068A98 00000050 . 00500018 00000010 00010000 00000000 *................*
00068AA8 00000060 . 00000000 00000000 00000000 00000000 *................*
00068AB8 00000070 . 00000000 00000000 00000000 00000000 *................*
00068AC8 00000080 . 00000000 00000000 00000000 00000000 *................*
00068AD8 00000090 . 00000000 01000000 00980000 00000000 *................*
00068AE8 000000A0 . 00000000 40404000 00000000 00000000 *.... .........*
00068AF8 000000B0 . 00000000 00000000 00000000 00000000 *................*
00068B08 000000C0 . C9F0F3C1 F5F0F1F2 C0000000 00000000 *I03A5012........*
00068B18 000000D0 . 00000000 00000000 00000000 00000000 *................*
00068B28 000000E0 . 00000000 00000000 00000000 00000000 *................*
00068B38 000000F0 . 00000000 00000000 00000000 00000000 *................*
00068B48 00000100 . 00000000 00000000 00000000 00000000 *................*
00068B58 00000110 . 00000000 00000000 00000000 00000000 *................*
00068B68 00000120 . 00000000 00000000 00000000 00000000 *................*
XT007 REQUEST ACCEPTED
```

Figure A–5.

The word to be updated is indicated to XOMT by moving the cursor to the first position of the line containing this word, then typing its relative position on the line (either 1,2, 3 or 4). Refer to Figure A–4 for an example.

After hitting ENTER a confirmation message will appear to acknowledge the memory update. The display now contains the new value Figure A–5).

If the memory update was incorrectly specified by the user, it is possible to restore the memory contents to its initial value!

RESTORE must be typed in the MEM field immediately following the erroneous update in order to retrieve the original memory contents (Figure A–6).

```
*** X O M T *** EXTENDED OPERATIONS MASTER TERMINAL ** REL 3.1 **
FUNCTION: PT RESOURCE: I03******** LINE: 1 09/20/94 08:19:41
MEM : CMD : TOTAL: 0 PF1/PF13 (HELP) V10
<ADDR> <OFFSET> << HEXADECIMAL >> << DECIMAL >>
00068A48 00000000 . C9F0F3C1 F5F0F1F2 00068968 00068BC8 *I03A5012.......H*
00068A58 00000010 . 0005D5E8 00000000 00000000 002B5ACC *..NY............*
00068A68 00000020 . 17000000 0EF20400 00068BA0 00000000 *.....2..........*
00068A78 00000030 . 00000000 00000000 00000000 00000000 *................*
00068A88 00000040 . 00000000 00000000 00000000 03000000 *................*
00068A98 00000050 . 00500018 00000010 00010000 00000000 *................*
00068AA8 00000060 . 00000000 00000000 00000000 00000000 *................*
00068AB8 00000070 . 00000000 00000000 00000000 00000000 *................*
00068AC8 00000080 . 00000000 00000000 00000000 00000000 *................*
00068AD8 00000090 . 00000000 01000000 00980000 00000000 *................*
00068AE8 000000A0 . 00000000 40404000 00000000 00000000 *.... .........*
00068AF8 000000B0 . 00000000 00000000 00000000 00000000 *................*
00068B08 000000C0 . C9F0F3C1 F5F0F1F2 C0000000 00000000 *I03A5012........*
00068B18 000000D0 . 00000000 00000000 00000000 00000000 *................*
00068B28 000000E0 . 00000000 00000000 00000000 00000000 *................*
00068B38 000000F0 . 00000000 00000000 00000000 00000000 *................*
00068B48 00000100 . 00000000 00000000 00000000 00000000 *................*
00068B58 00000110 . 00000000 00000000 00000000 00000000 *................*
00068B68 00000120 . 00000000 00000000 00000000 00000000 *................*
XT005 MEMORY CONTENTS RESTORED
```

Figure A–6.

APPENDIX B: XOMT Discrete Security

In a given Central Version environment users are defined with different levels of authority. XOMT provides discrete security capabilities to maintain controlled access to system resources. The following operations can be restricted to authorized users:

- Attribute updates for Programs (New Copy, Protect/Unprotect, Enable/Disable).
- Attribute updates for Tasks (Enable/Disable)
- Attribute updates for Physical Terminals (Connect/Disconnect, Online/Offline)
- Attribute updates for Areas (Online/Offline, Retrieval, Quiesce, Active, Purge, Open/Open Update)
- Task cancellations using sub-FUNCTIONS R3 and R4
- Memory Updates
- Hard Cancel (CMMT use only)

The security mechanisms is implemented thru a table loaded in memory at execution time. This table contains a list of authorized users and their respective security profile. The $SECUR macro instruction, an example of which is supplied in member PRMPSECU, is specified as follows:

```
$SECUR USER=UUUUUUUU,
PG=YES/NO,TK=YES/NO,
PT=YES/NO,CAN=YES/NO,
AR=YES/NO,HC=YES/NO,
VARY=YES/NO
(or)
$SECUR USER=UUUUUUUU,
OP=ALL
```

Where:

o UUUUUUUU is the User Identifier

- PG is the set of attributes modification commands for Programs
- TK is the set of attributes modification commands for Tasks
- PT is the set of attributes modification commands for PTERMs
- AR is the set of attributes modification commands for Areas
- CAN is the task cancellation function
- VARY is the memory update function
- HC is the hard cancel function
- YES/NO grants or denies privilege (default:NO)
- OP grants all of the above privileges

Note:
All user-defined entries must precede, and not replace, the last entry (i.e. X'FFFF') in the PRMPSECU source member.

The macro is ASSEMBLED and link-edited into the XOMT installation load library under the name PRMPSECU.

All users must be predefined in the $SECUR macro in order to perform update operations. If this macro is not ASSEMBLED, security is not enforced, granting every user all privileges!