Adabas Review

Supplied Reports

Version 4.4.1

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Adabas Review

This document applies to Adabas Review Version 4.4.1 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Supplied Reports

This section describes the reports supplied with Adabas Review. These reports may be used without modification, or they may be customized to suit individual site requirements.

The Adabas Review Supplied Reports documentation is organized in the following topics:

- How the Reports are Described
- Report Results Screen
- Application File Field Usage
- Commands By Hour
- Command Logging
- Cost Accounting Example
- Descriptor Usage Report
- Exceptional Response Codes
- File Usage
- Hourly Database Overview
- I/O Count by Hour
- I/O Summary... Reports
- I/O Summary by Volume
- Job Overview
- Last 500 Adabas Calls
- Long Running Commands
- Natural Program Trace
- Natural Summary
- Natural Transaction Trace

•	PRILOG Report
•	Rate of Commands and I/Os By Date
•	Rate of Commands and I/Os By Hour
•	Summary Report by File
•	Thread Activity
•	Thread Activity By Command
•	Transaction Count... Reports
•	Transaction Count By Job
•	Transaction Detailed Information
•	Transaction Summary By User
•	Who is Using Natural?
•	Who Uses SYSMAIN?
•	Worst Calls... Reports
•	Worst Calls By ADADURA
•	Worst Transactions... Reports
•	Worst Transactions By Calls

2 How the Reports are Described

In the following sections, each Adabas Review Supplied Report is described by:

- **Narrative Description**
  describes the report.
- **Fields Selected Table**
  shows the fields used for the report. The fields are listed by their system name. For a description of these fields, refer to section *Field Reference*.
- **Report Options Selected**
  lists any report options which are different from the default report options.
- **Report Processing Rules**
  lists the report processing rules, if any are selected.

  To examine the report definitions online, refer to the chapter *Editing Existing Reports* in *Maintaining Report Definitions*.

3 Report Results Screens

A Report Results screen is provided for each report. Since some reports require more than one screen to show all of the data collected, the screen provided may not show all of the data being collected by the report.

To see all of the report data

- View the report online and press PF11 to scroll the report horizontally, or press PF8 to scroll the report vertically.

4 Application File Field Usage

- Fields Selected 8
- Report Options Selected 8
- Report Processing Rules 8

The "Application File Field Usage" report shows the processing activity, by file, for Natural application programs. Processing activity information includes the total number of commands and I/Os, as well as the total amount of command response time (CMDRESP) and time used to process in the Adabas thread (ADADURA).

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
FILE	2							
FBFIELDS	3							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
17:24:26                APPLICATION FILE FIELD USAGE                2003-07-07
                     17:06:05 1999-06-14 Thru 17:07:42 1999-06-14   LOCL=00009

                              Total        Total         Total
 NAT-Appl File Fld-Name        IOs        Commands      Cmd-Resp
 -------- ---- -------- ------------- ------------ --------------

 SYS340     17 LO                   2            1       0.000288
 ******** **** ********             9            8       0.000960
 SYS340DB    0                     16           43       0.000944
             0 AA                   0           44       0.002880
             0 AB                   0           78       0.005184
             0 AF                   0           34       0.002304
```

```
            0 AI                    0           34       0.002304
            0 AK                    0           78       0.005184
            0 AL                    0           78       0.005184
            0 AM                    0           44       0.002880
            0 AN                    0           44       0.002880
            0 AS                    0           44       0.002880
            0 AW                    0           34       0.002304

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                ===>  Menu
```

5 Commands By Hour

- Fields Selected 12
- Report Options Selected 12
- Report Processing Rules 12

"Commands by Hour" shows Adabas processing activity, by command, on an hourly basis. The processing activity shown includes the total number of commands, the total and average number of I/Os, and the total command response time.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
CMD	2							
IOS		Y			Y			
COMMANDS		Y						
CMDRESP		Y			Y			

Report Options Selected

```
AUTOSTART = Y
MAX K = 8
```

Report Processing Rules

None.

```
11:25:04                        COMMANDS BY HOUR                        2003-07-07
                    10:15:42 1999-06-23 Thru 11:25:04 1999-06-23    LOCL=00009

               Total        Total         Total           Avg
 Time  Cmd      IOs        Commands      Cmd-Resp         IOs
 ----- --- ------------- ------------ -------------- -------------

 10:00 A1            526         1530       0.293760         0.343
       BT              9           34       0.000544         0.264
       CL             19           19       0.084208         1.000
       ET            523          560       0.017920         0.933
       E1             43           30       0.007200         1.433
       E4             79          120       0.030720         0.658
       HI              0           44       0.001408         0.000
```

```
       L1             95          636       0.050880         0.149
       L3           5698         7270       0.814240         0.783
       L4             24          556       0.044480         0.043
       L6            764         1250       0.160000         0.611
       L9            346         2285       0.146240         0.151
       N1            527          596       0.190720         0.884

Command: ____________________________________________________________________
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Sort  Exit                          +                ===>  Menu
```

6 Command Logging

"Command Logging" is a detailed report that contains the necessary report options for using the command logging features of Adabas Review. It may be used as an example for creating reports that perform command logging. For more information about the use of the command logging report options, refer to the section *Logging Options*.

The following report options are required for command logging and are used in this report:

Detail/Sum	D
Print	N
Log	Y
File	name
Num of Logs	number
Log Size	number

A command log report must be a detailed report so that it produces a straight recording of each command processed by Adabas.

Data fields are not used in reports that perform command logging. Because it is a detailed report and cannot be viewed online, and because the PRINT option is set to "N", field information entered on the Edit Report screen produces no effect.

The following report options used in this report are *not* required for command logging:

AutoStart	Y
Log CB	Y
Log FB	Y
Log SB	Y
Log RB	Y
Log VB	Y
Log IB	Y
Log IO	Y
Log EX1	N
Log EX2	N

7 Cost Accounting Example

The "Cost Accounting Example" is a summary report designed to show how Adabas Review may be used to produce cost accounting reports about Adabas resource consumption.

For more information about this report, see the section *Cost Accounting Example*.

8 Descriptor Usage Report

- Fields Selected 20
- Report Options Selected 20
- Report Processing Rules 20

The "Descriptor Usage Report" shows processing done for Adabas fields used as descriptors. Commands are shown with the descriptor name for the field on which the command was performed. Processing statistics are given for each command, whether or not the command was performed on a descriptor.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
CMD	2							
SBFIELDS	3							
IOS		Y						
COMMANDS		Y						
ADADURA		Y						
ISNQ		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:26:13                    DESCRIPTOR USAGE REPORT                 2003-07-07
                    11:25:54 1999-06-23 Thru 11:26:12 1999-06-23    LOCL=00009

                        Total        Total          Total          Total
 File Cmd Desc-Name      IOs        Commands       ADA-Dur        ISN-Qty
 ---- --- --------- ------------- ------------ ----------------------------

    0 ET                       5            5         0.000480            0
      RC                       0           21         0.001872            0
      RC  ET                   0            1         0.000080            0
 **** *** *********             5           27         0.002432            0
   15 A1                       6           22         0.138000            0
```

```
     E4                        0            2         0.000784            0
     L3  LJ                    5            2         0.042208            0
     L3  LL                    7            9         0.219536            0
     L3  LP                    4            1         0.014784            0
     L6  LJ                    5            8         0.111536            0
     L6  LL                    6           18         0.145152            0
     N1                        1            2         0.018048            0
     S1  LL                    0            1         0.000304            0

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                      Menu
```

9 Exceptional Response Codes

- Fields Selected 24
- Report Options Selected 24
- Report Processing Rules 25

"Exceptional Response Codes" gives a "snapshot" of the processing environment at the time that an Adabas command returns an exceptional response code. (Response codes are exceptional if they are *not* equal to 0, 3, 9, 17, or 48.) The information collected by this report may be used to help determine the cause and resolve the condition causing the exceptional response code.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
NATSTMT	6							
CMD	7							
FILE	8							
RSP	9							
RSPSUB	10							
IOS	11							
ADADURA	12							
CID	13							

Report Options Selected

```
AUTOSTART = Y
```

Report Processing Rules

```
RSP  NE  (0,3,9,17,48)
```

```
11:27:13                  EXCEPTIONAL RESPONSE CODES                2003-07-07
                    10:50:09 1999-06-23 Thru 10:54:51 1999-06-23    LOCL=00009


   Seq     CQ-Job  TPUserid NAT-Appl NAT-Pgm  NAT-Stmt Cmd File Rsp Rspsub
--------- -------- -------- -------- -------- -------- --- ---- ----------
   203871 COMPLETE USER1    PAA      MGLNVAUD 3110     L4    63  113   0
   204158 COMPLETE USER2    PAA      MGLNVAUD 3110     L4    63  113   0
   204689 COMPLETE USER3    PAA      MGLNVAUD 3110     L4    63  113   0
********* ******** ******** ******** ******** ******** *** **** **********

*****   E N D    O F    R E P O R T   *****



Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

10 File Usage

- Fields Selected 28
- Report Options Selected 28
- Report Processing Rules 28

"File Usage" breaks down file usage into the types of processing done to the file. It shows the total number of associator and data storage I/Os executed, the descriptor updates performed, the command response time used, the amount of Adabas processing time required, and the total number of commands.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
ASSOIO		Y						
DATAIO		Y						
COMMANDS		Y						
DESUPD		Y						
CMDRESP		Y						
DURATION		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:28:55                          FILE USAGE                          2003-07-07
                    04:38:11 1999-06-23 Thru 11:28:55 1999-06-23    LOCL=00009

          Total         Total        Total         Total         Total
 File   Asso-IOs      Data-IOs      Commands     Desc-Upd      Cmd-Resp
 ---- ------------- ------------- ------------ ------------- --------------
    0           709            98        59279           142      1.867136
    9           156             6           64             2      0.006800
   10           343            55          257            99      0.035856
   12            80            26          259             0      0.029008
   15          3965          4460        13105           731      1.891760
   16           978           242         1021          1482      0.179056
   17          3925          4074        10281          2966      1.394752
```

```
  18          9265          9882        31304          1153      3.499968
  50            74            64          187            36      0.027248
  61          4977          4926        25603         11345      3.411008
  62          2393           764        13458          7642      2.102720
  63          1159           585         7338          1920      1.033216
  64            54            24          537          1298      0.098448

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                ===>  Menu
```

11 Hourly Database Overview

- Fields Selected 32
- Report Options Selected 32
- Report Processing Rules 32

"Hourly Database Overview" shows the processing done in the database which is currently selected, on an hourly basis. It gives the total number of commands and I/Os, the total and average command response time (CMDRESP), and the average Adabas thread processing time (ADADURA).

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
FILE	2							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y			Y			
ADADURA		Y			Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:29:53                    HOURLY DATABASE OVERVIEW                  2003-07-07
                     10:31:45 1999-06-23 Thru 11:29:30 1999-06-23    LOCL=00009

                Total        Total         Total           Total
 Time  File      IOs        Commands      Cmd-Resp        ADA-Dur
 ----- ---- ------------- ------------ -------------- ----------------
 10:00   66            52           40       0.004544         0.686528
         67            77          110       0.011520         1.780240
        200           261          482       0.047856         4.944992
        210            13            3       0.000336         0.576640
 ***** ****          3953         8006       0.795088        73.536688
 11:00    0           302         3109       0.131264         2.496752
          9            13            4       0.000352         0.206320
         10            46           30       0.002624         0.922080
         12            23           89       0.009968         0.481872
```

```
        15           938         1338       0.189568        19.573376
        16            79           33       0.004096         1.639760
        17           950         1529       0.194880        21.727504
        18           226          344       0.031536         3.935680

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                ===>  Menu
```

12 I/O Count by Hour

- Fields Selected 36
- Report Options Selected 36
- Report Processing Rules 36

"I/O Count by Hour" calculates and displays information on an hourly basis. It shows the total I/Os, and breaks them into totals for the associator, the data storage area, and the work area. Total number of commands is also shown. The processing rule "IOS GT 0" assures that reporting is on commands issuing at least one I/O.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
IOS		Y						
COMMANDS		Y						
ASSOIO		Y						
DATAIO		Y						
WORKIO		Y						

Report Options Selected

```
ENTRIES = 99999
```

Report Processing Rules

```
IOS  GT  0
```

```
11:35:38                        IO COUNT BY HOUR                      2003-07-07
                    10:32:13 1999-06-23 Thru 11:35:37 1999-06-23    LOCL=00009

           Total        Total         Total         Total         Total
 Time       IOs        Commands     Asso-IOs      Data-IOs     Work-IOs
 ----- ------------- ------------ ------------- --------------------------
 10:00          3913         2140          1862          1737          314
 11:00          5245         2899          2554          2319          372
 *****          9158         5039          4416          4056          686

 *****   E N D    O F    R E P O R T   *****
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                      Menu
```

13 I/O Summary... Reports

The two I/O summary reports "I/O Summary by RABN" and "I/O Summary by Volume" may be used to determine the components against which I/Os are performed. For commands issuing at least one I/O, these reports list the Adabas component against which the I/O was performed, and either the Adabas relative block number or the volume serial number of the device.

14 I/O Summary by Volume

- Fields Selected 42
- Report Options Selected 42
- Report Processing Rules 42

The report "I/O Summary by Volume" is an example of an I/O summary report.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
IOVOLSER	1							
IOTYPE	2							
IOCOMP	3							
COMMANDS		Y						

Report Options Selected

```
ENTRIES = 99999
```

Report Processing Rules

```
IOS  GT  0
```

```
11:36:43                     IO SUMMARY BY VOLUME                    2003-07-07
                    10:33:08 1999-06-23 Thru 11:36:42 1999-06-23    LOCL=00009

                            Total
 Volser IO-TYPE IO-Comp   Commands
 ------ ------- ------- ------------

 RD0008 ASSO    AC1             1172
        ASSO    AC2                7
        ASSO    AS               386
        ASSO    FCB              193
        ASSO    FDT              103
        ASSO    NI1             1704
        ASSO    UI1              881
        ASSO    UI2               12
        DATA    DS               161
        DATA    DS1             3562
        DATA    DS2              183
        DATA    DS3               37
        DATA    DS4              150
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                     Menu
```

15 Job Overview

- Fields Selected 46
- Report Options Selected 46
- Report Processing Rules 46

"Job Overview" shows processing activity for jobs or tasks issuing Adabas calls. For the job or task, it shows the file number accessed, the total number of I/Os and commands, and the total command response time (CMDRESP) and Adabas thread processing time used (ADADURA).

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
FILE	2							
CMD	3							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:38:49                          JOB OVERVIEW                          2003-07-07
                    10:34:02 1999-06-23 Thru 10:55:28 1999-06-23    LOCL=00009

                       Total        Total         Total           Total
  CQ-Job  File Cmd      IOs        Commands      Cmd-Resp       ADA-Dur
 -------- ---- --- ------------- ------------ ------------------------------
 COMPLETE    0 BT              2            7       0.000112        0.036368
             0 CL              1            1       0.004432        0.021328
             0 ET            144          157       0.005024        0.016336
             0 L1              0          281       0.022480        0.012784
             0 OP              3            3       0.000816        0.085296
             0 RC              0         1236       0.019776        0.213904
             0 S1              0           17       0.001904        0.001152
             9 L9             10            2       0.000128        0.120240
```

```
             9 S1              4            2       0.000224        0.102768
            10 A1              0            1       0.000192        0.000720
            10 E1              2            2       0.000480        0.005856
            10 L6             29           17       0.002176        0.612784
            10 RI              0           10       0.000320        0.000704

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                      Menu
```

16 Last 500 Adabas Calls

- Fields Selected 50
- Report Options Selected 50
- Report Processing Rules 51

"Last 500 Adabas Calls" lists the last 500 Adabas call in order by Adabas sequence number. This report uses the report option "DISPLAY BY=SORTEDDE" which lists the calls in order by sequence number, starting with the most recent sequence number first.

The order in which the sequence numbers are displayed may be changed by using a different "DISPLAY BY=" option. The number of calls shown can be varied from 500, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=100" displays the last 100 Adabas calls.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
TPUSERID	2							
NATAPPL	3							
NATPROG	4							
FILE	5							
CMD	6							
RSP	7							
TOTDURA	8							
IOS	9							

Report Options Selected

```
WRAPPING = Y
MAX K = 48
DISPLAY BY = SORTEDDE
ENTRIES = 500
```

Report Processing Rules

None.

```
11:44:24                      LAST 500 ADABAS CALLS                   2003-07-07
                    10:35:44 1999-06-23 Thru 11:44:23 1999-06-23    LOCL=00009


   Seq    TPUserid NAT-Appl NAT-Pgm  File Cmd Rsp     Total-Dur
--------- -------- -------- -------- ---- --- ---- ----------------

   228047 USER1    SYS410DB SR-00038    0 RC     0         0.000304
   228046 USER1    SYS410DB SR-00038   17 L3     0         0.000864
   228045 USER1    SYS410DB SR-00038   17 L3     0         0.005328
   228044 USER1    SYS410DB SR-00038   17 L3     0         0.000512
   228043 USER1    SYS410DB SR-00038   17 L3     0         0.004272
   228042 USER1    SYS410DB SR-00038   17 L3     0         0.000640
   228041 USER1    SYS410DB SR-00038   17 L3     0         0.089600
   228040 USER2    SYS410DB P-DBLS      0 RC     0         0.000320
   228039 USER3    SYS410DB S-DBEXIT    0 ET     0         0.030048
   228038 USER3    SYS410DB S-DBEXIT   17 A1     0         0.029248
   228037 USER3    SYS410DB S-DBEXIT   17 S4     0         0.000768
   228036 USER3    SYS410DB S-DBEXIT   17 A1     0         0.026256
   228035 USER3    SYS410DB S-DBEXIT   17 S4     0         0.000544

 Command: ____________________________________________________________________
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Sort  Exit                          +               ===>  Menu
```

17 Long Running Commands

- Fields Selected 54
- Report Options Selected 54
- Report Processing Rules 55

"Long Running Commands" shows commands with a duration greater than three seconds and I/Os greater than 200.

The report processing rule "ADADURA GT 3.0" determines that commands with a duration greater than three seconds are selected for this report; to change the duration for the commands selected, change the number "3.0" to any number desired. Similarly, the report processing rule "IOS GT 200" selects commands with more than 200 I/Os; to change the I/O criterion for the commands selection, change "200" to any number desired.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQ	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
RSP	8							
IOS	9							
ADADURA	10							
CID	11							

Report Options Selected

Defaults.

Report Processing Rules

```
ADADURA  GT  3.0  AND
IOS  GT  200
```

```
11:54:53                      LONG RUNNING COMMANDS                 2003-07-07
                    09:52:56 1999-06-16 Thru 11:50:35 1999-06-16    LOCL=00009

    Seq     CQ-Job  TPUserid NAT-Appl NAT-Pgm  Cmd File Rsp       IOs
 --------- -------- -------- -------- -------- --- ---- ---- -------------

  13375591 COM000R  USER1    SYSCNT2  NIDES2   S1    65    0          389
  13377560 COM000R  USER2    SYSCNT2  NIDES2   S1    65    0          383
  13384954 COM000R  USER3    SYSCNT2  NIDES2   S1    65    0          393
  13390282 COM000R  USER4    SYSCNT2  NIDES2   S1    65    0          386
  13393597 COM000R  USER5    SYSCNT2  NIDES2   S1    65    0          388
  13404627 COM000R  USER6    SYSCNT2  NIDES2   S1    65    0          489
 ********* ******** ******** ******** ******** *** **** ****************

 *****   E N D    O F    R E P O R T   *****



 Command: ____________________________________________________________________
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Sort  Exit                          +                ===>  Menu
```

18 Natural Program Trace

- Fields Selected 58
- Report Options Selected 58
- Report Processing Rules 59

"Natural Program Trace" shows processing activity for a specific Natural program, sorted by Adabas sequence number. To specify the program to be reported on, use the processing rules:

```
NATAPPL  EQ MYLOGON
```

where *MYLOGON* is the program library name; and

```
NATPROG  EQ MYPROG
```

where *MYPROG* is the program name.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CMD	2							
FILE	3							
RSP	4							
CID	5							
ADADURA	6							
CMDRESP	7							
IOS	8							

Report Options Selected

Defaults.

Report Processing Rules

```
NATAPPL  EQ MYLOGON AND
NATPROG  EQ MYPROG
```

```
15:14:55                      NATURAL PROGRAM TRACE                    2003-07-07
                  14:12:56 1999-06-28 Thru 14:12:59 1999-06-28      LOCL=00009


   Seq    Cmd File Rsp    CID        ADA-Dur         Cmd-Resp        IOs
--------- --- ---- ---- -------- ---------------- -------------- -------------

   375126 L3    12    0 09700101         0.004672       0.000112            1
   375127 L3    12    0 09700101         0.003184       0.000112            0
   375128 L3    12    0 09700101         0.000384       0.000112            0
   375129 L3    12    0 09700101         0.000496       0.000112            0
   375130 L3    12    0 09700101         0.000384       0.000112            0
   375131 L3    12    0 09700101         0.000352       0.000112            0
   375132 L3    12    0 09700101         0.001456       0.000112            0
   375133 L3    12    0 09700101         0.000352       0.000112            0
   375134 L3    12    0 09700101         0.000352       0.000112            0
   375135 L3    12    0 09700101         0.000432       0.000112            0
   375136 L3    12    0 09700101         0.000528       0.000112            0
   375137 L3    12    0 09700101         0.000352       0.000112            0
   375138 S1     0   17 47550101         0.000048       0.000144            0

 Command: ____________________________________________________________________
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Sort  Exit                           +                      Menu
```

19 Natural Summary

- Fields Selected 62
- Report Options Selected 62
- Report Processing Rules 62

The "Natural Summary" report shows processing activity for a Natural application on a program-by-program basis.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
NATPROG	2							
FILE	3							
CMD	4							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
17:56:29                        NATURAL SUMMARY                     2003-07-07
                  03:47:46 1999-06-15 Thru 04:54:28 1999-06-15     LOCL=00009

                                 Total        Total         Total
 NAT-Appl NAT-Pgm  File Cmd       IOs        Commands      Cmd-Resp
 -------- -------- ---- --- ------------- ------------ --------------

 SYSTEM   LOGON      17 L3              4            3       0.000528
          SYSMAIN     0 RC              0            2       0.000064
          SYSMAIN    15 L3              5            2       0.000352
          SYSSUBST    0 RC              0            1       0.000048
          SYSSUBST   15 L3              3            2       0.000352
 ******** ******** **** ***            34           25       1.287616
 ******** ******** **** ***           115          163       2.449104
```

```
*****   E N D   O F   R E P O R T   *****



Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +               ===>  Menu
```

20 Natural Transaction Trace

- Fields Selected 66
- Report Options Selected 66
- Report Processing Rules 66

"Natural Transaction Trace" shows processing activity by transaction number using the `TPTRANNM` field. Data is broken down by Natural application and program name.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
NATAPPL	2							
NATPROG	3							
FILE	4							
CMD	5							
RSP	6							
COMMANDS		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:50:49                    NATURAL TRANSACTION TRACE                 2003-07-07
                  10:37:14 1999-06-23 Thru 10:37:28 1999-06-23       LOCL=00009

                                                   Total
 Trans Nr   NAT-Appl NAT-Pgm  File Cmd Rsp    Commands
----------- -------- -------- ---- --- ---- ------------
        140 SYS410DB P-DBST      0 RC     0            1
            SYS410DB P-DBST      0 S1    17            1
            SYS410DB S-DBEXIT    0 ET     0            1
*********** ******** ******** **** *** ****            3
        141 SYS410DB S-ST241     0 ET     0            1
            SYS410DB S-ST241    17 A1     0            2
            SYS410DB S-ST241    17 S4     0            2
*********** ******** ******** **** *** ****            5
        595 PAC13               15 L3     0           11
```

```
*********** ******** ******** **** *** ****          11
        596 PAC13               15 L3     0          11
*********** ******** ******** **** *** ****          11
        597 PAC13                0 RC     0           1

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                      Menu
```

21 PRILOG Report

- Fields Selected 70
- Report Options Selected 70
- Report Processing Rules 71

The "PRILOG Report" duplicates the information provided by the PRILOG program, which is supplied with Adabas and is used to print command logs.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
TIME	2							
DURATION	3							
CQJOB	4							
USERID	5							
CMD	6							
RSP	7							
CID	8							
FILE	9							
ISN	10							
THREAD	11							
PRI	12							
ECBS	13							
ASSOIO	14							
DATAIO	15							
WORKIO	16							

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:51:17                          PRILOG REPORT                        2003-07-07
                  10:37:32 1999-06-23 Thru 10:38:03 1999-06-23       LOCL=00009


   Seq      Time        Dur        CQ-Job   Userid  Cmd Rsp    CID   File
--------- -------- -------------- -------- -------- --- ---- ------------

   200800 10:37:32         0.0001 COMPLETE 40404040 RC     0 09400201   0
   200801 10:37:32         0.0003 COMPLETE 40404040 S4     0 40404040  17
   200802 10:37:32         0.0031 COMPLETE 40404040 A1     0 40404040  17
   200803 10:37:32         0.0003 COMPLETE 40404040 S4     0 40404040  17
   200804 10:37:32         0.0003 COMPLETE 40404040 A1     0 40404040  17
   200805 10:37:32         0.0001 COMPLETE 40404040 ET     0 0000006D   0
   200806 10:37:33         0.0228 COMPLETE 40404040 L9     0 02200301  61
   200807 10:37:33         0.0001 COMPLETE 40404040 RC     0 02200301   0
   200808 10:37:48         0.0004 COMPLETE 40404040 S4     0 40404040  17
   200809 10:37:48         0.0005 COMPLETE 40404040 A1     0 40404040  17
   200810 10:37:48         0.0003 COMPLETE 40404040 S4     0 40404040  17
   200811 10:37:48         0.0003 COMPLETE 40404040 A1     0 40404040  17
   200812 10:37:48         0.0001 COMPLETE 40404040 ET     0 0000006E   0

 Command: ____________________________________________________________________
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Sort  Exit                          +                ===>  Menu
```

22 Rate of Commands and I/Os By Date

- Fields Selected 74
- Report Options Selected 74
- Report Processing Rules 74

The "Rate of Commands and I/Os by Date" report calculates and displays the total and average rate of commands and I/Os by hour for a specific date.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
DATE	1							
HOUR	2							
IOS	3	Y					Y	
COMMANDS	4	Y					Y	

Report Options Selected

```
MAX K = 16
```

Report Processing Rules

None.

```
14:17:28                RATE OF COMMANDS AND IOS BY DATE              2003-07-07
                   11:11:39 1999-06-26 Thru 14:17:28 1999-06-26       LOCL=00009


                     Total        Total       Rate      Rate

   Date   Time       IOs        Commands      IOs    Commands

 -------- ----- ------------- ------------ --------- ---------

 93/04/26 11:00         10448        29361       3.6      10.1
          12:00         10166        30554       2.8       8.5
          13:00          7064        15722       2.0       4.4
          14:00          3106         6992       3.0       6.7
 ******** *****         30784        82629
 ******** *****         30784        82629


 *****   E N D    O F    R E P O R T   *****
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                      Menu
```

23 Rate of Commands and I/Os By Hour

- Fields Selected 78
- Report Options Selected 78
- Report Processing Rules 78

The "Rate of Commands and I/Os by Hour" report calculates and displays the total and average rate of commands and I/Os by hour.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
HOUR	1							
IOS		Y					Y	
COMMANDS		Y					Y	

Report Options Selected

Defaults.

Report Processing Rules

None.

```
09:18:32                RATE OF COMMANDS AND IOS BY HOUR              2003-07-07
                  04:26:30 1999-06-27 Thru 09:18:31 1999-06-27        LOCL=00009


           Total        Total       Rate      Rate
 Time       IOs        Commands      IOs    Commands
 ----- ------------- ------------ --------- ---------

 04:00           41           71       0.0       0.0
 05:00         2503         6040       0.7       1.7
 06:00         5189        12280       1.5       3.4
 07:00         3408         9674       1.0       2.8
 08:00        12024        39308       3.4      11.1
 09:00        10970        24753       9.9      22.3
 *****        34135        92126


 *****   E N D   O F   R E P O R T   *****
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                      Menu
```

24 Summary Report by File

- Fields Selected 82
- Report Options Selected 82
- Report Processing Rules 82

"Summary Report by File" shows Adabas processing activity by file number and file name. Within each file, command types are listed, showing the total number of this type of command, total and average I/Os, total and average Adabas thread processing time (ADADURA), and total and average command response time (CMDRESP).

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
FILE	1							
FILENAME	2							
CMD	3							
IOS		Y			Y			
COMMANDS		Y						
ADADURA		Y			Y			
CMDRESP		Y			Y			

Report Options Selected

```
AUTOSTART = Y
MAX K = 8
```

Report Processing Rules

None.

```
15:27:57                    SUMMARY REPORT BY FILE                    2003-07-07
                  02:44:58 1999-06-28 Thru 15:27:57 1999-06-28       LOCL=00009


                                Total        Total          Total
 File    File Name     Cmd      IOs        Commands       ADA-Dur
 ---- ---------------- --- ------------- ------------ ----------------

    0 NO-FCB-AVAILABLE BT            237          506         6.138560
      NO-FCB-AVAILABLE CL            260          236         7.464352
```

```
     NO-FCB-AVAILABLE ET           8635         9329         1.618272
     NO-FCB-AVAILABLE OP           1467          519        32.046384
     NO-FCB-AVAILABLE RC              0       103078        15.554368
     REVIEW-FILE-ZERO L1              0          309         0.022448
     REVIEW-FILE-ZERO S1              0           65         0.006512
**** *************** ***         10599       114042        62.850896
   1 V5-EMPL-FILE     L1              6           18         0.079824
     V5-EMPL-FILE     S1             21            3         0.435040
**** *************** ***             27           21         0.514864
   9 RD-NAT227-FUSER  L1             33          256         0.447424
     RD-NAT227-FUSER  L3            548          639         8.737232


Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

25 Thread Activity

- Fields Selected 86
- Report Options Selected 86
- Report Processing Rules 86

"Thread Activity" shows processing activity broken down for individual Adabas threads. Each thread number shows the total number of commands, the total and average number of I/Os, and the average amount of command processing time per command; i.e., the time the command spent in the command queue added to the Adabas command processing time (TOTDURA).

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
THREAD	1							
IOS		Y			Y			
COMMANDS		Y						
TOTDURA					Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

```
11:52:26                        THREAD ACTIVITY                      2003-07-07
                 10:39:51 1999-06-23 Thru 11:52:25 1999-06-23        LOCL=00009

        Total        Total          Avg            Avg
 Thd     IOs        Commands        IOs         Total-Dur
 --- ------------- ------------ ------------- ----------------
   1        12743        27843         0.457         0.011301
   2          470         1024         0.458         0.016938
   3          133          159         0.836         0.019639
 ***        13346        29026         0.459         0.011546
 *****   E N D    O F    R E P O R T   *****
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                      Menu
```

26 Thread Activity By Command

- Fields Selected 90
- Report Options Selected 90
- Report Processing Rules 90

"Thread Activity by Command" breaks thread activity down into command types, then shows the total number of commands, the total and average number of I/Os per command, and the total and average amount of command processing time per command.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
THREAD	1							
CMD	2							
IOS		Y			Y			
COMMANDS		Y						
TOTDURA		Y			Y			
ADADURA		Y			Y			
CQDURA		Y			Y			

Report Options Selected

Defaults.

Report Processing Rules

None.

```
09:56:54                    THREAD ACTIVITY BY COMMAND                  2003-07-07
                  09:53:25 1999-06-26 Thru 09:56:53 1999-06-26      LOCL=00009

             Total        Total          Total            Total
 Thd Cmd      IOs        Commands      Total-Dur         ADA-Dur
 --- --- ------------- ------------ ---------------- ----------------

   1 A1             30          141         0.806656         0.704544
     BT              1            2         0.039872         0.039152
     ET             75           75         1.339056         0.035968
     E4              0            1         0.000592         0.000368
     L1              5           89         0.220992         0.162400
     L3            205          279         3.930176         3.746368
     L4              1            4         0.013104         0.005520
```

```
    L6              59            3         0.877344         0.876304
    L9              18           27         0.337120         0.322496
    N1               8            2         0.125728         0.124880
    RC               0          186         0.168496         0.015232
    S1              67           87         1.264320         1.217728
    S4               5          141         0.225344         0.149040

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

27 Transaction Count... Reports

For transaction numbers not equal to zero, Transaction Count... reports calculate and display the *total*

- number of completed Adabas transactions for the user;
- number of commands performed for the transactions;
- number of I/Os performed for the transactions;
- amount of command processing time; i.e., the time Adabas spent to process the command, and the time the command spent in the command queue;
- amount of time spent by Adabas to process the command;
- amount of time the command spent in the command queue.

28 Transaction Count By Job

- Fields Selected 96
- Report Options Selected 96
- Report Processing Rules 96

The report "Transaction Count by Job" is an example of a transaction count report.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

```
TPTRANNM  NE  0
```

```
17:58:55                    TRANSACTION COUNT BY JOB                2003-07-07
                  04:50:58 1999-06-15 Thru 17:58:54 1999-06-15     LOCL=00009

             Total        Total         Total          Total
  CQ-Job   Trans-Cnt     Commands        IOs         Total-Dur
 -------- ------------ ------------ ------------- ----------------
 CICSPROD        35971       322386        169800      2751.100528
 CICSTEST         1352        19816          8503       377.155664
 USER1            1387        19958         10718       412.490496
 USER2              59          604           192         5.377152
 BATCHJOB            4          123            53         1.454592
 TSOUSER3            4          144           104         3.208336
 ********        38777       363031        189370      3550.786768

 *****   E N D    O F    R E P O R T   *****
```

```
Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

29 Transaction Detailed Information

- Fields Selected 100
- Report Options Selected 100
- Report Processing Rules 100

"Transaction Detailed Information" displays detailed processing information, by transaction number, for each transaction not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
SEQUENCE	2							
TPUSERID	3							
CMD	4							
FILE	5							
RSP	6							
IOS	7							
ADADURA	8							
CMDRESP	9							
CQJOB	10							
COMMANDS	11							

Report Options Selected

```
MAX K = 32
```

Report Processing Rules

```
TPTRANNM  NE  0
```

```
10:01:46              TRANSACTION DETAILED INFORMATION            2003-07-07
                 09:54:54 1999-06-26 Thru 09:56:18 1999-06-26      LOCL=00009


 Trans Nr      Seq    TPUserid Cmd File Rsp       IOs          ADA-Dur
----------- --------- -------- --- ---- ---- ------------- ----------------
         87     50967 USER1    RC     0    0             0        0.000080
*********** ********* ******** *** **** **** ************* ****************
         88     50968 USER1    S4    17    0             0        0.000320
                50969 USER1    A1    17    0             0        0.000288
                50970 USER1    S4    17    0             0        0.000464
                50971 USER1    A1    17    0             0        0.002064
                50972 USER1    ET     0    0             1        0.000064
*********** ********* ******** *** **** **** ************* ****************
         89     51005 USER2    S4    17    0             0        0.000384
                51006 USER2    A1    17    0             0        0.000400
                51007 USER2    S4    17    0             0        0.000288
                51008 USER2    A1    17    0             1        0.031280
                51009 USER2    ET     0    0             1        0.000064

Command: ______________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

30 Transaction Summary By User

- Fields Selected 104
- Report Options Selected 104
- Report Processing Rules 104

Similar to the "Transaction Count" reports, "Transaction Summary by User" calculates and displays information about a user's TP transaction for transaction numbers not equal to zero.

The processing rule "TPTRANNM NE 0" ensures that the transaction number will not be equal to zero.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPUSERID	1							
TPTRANNM	2							
IOS		Y						
COMMANDS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

```
MAX K = 16
```

Report Processing Rules

```
TPTRANNM  NE  0
```

```
10:02:16                  TRANSACTION SUMMARY BY USER                2003-07-07
                  09:55:25 1999-06-26 Thru 10:01:21 1999-06-26       LOCL=00009

                          Total        Total          Total
 TPUserid  Trans Nr        IOs        Commands      Total-Dur
 -------- ----------- ------------- ------------ ----------------

 USER1            654             4            4         0.048944
                  655            11           11         0.218096
                  656             2            4         0.048512
 ******** ***********            17           19         0.315552
 USER2            552            12            9         0.211936
```

```
                 553             4            3         0.108320
                 554             3            1         0.105456
                 555             4            2         0.103792
                 556             4            2         0.125264
                 557             3            3         0.076016
                 558             0            3         0.005376
******** ***********            30           23         0.736160
USER3           2280             5           11         0.100288

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

31 Who is Using Natural?

- Fields Selected 108
- Report Options Selected 108
- Report Processing Rules 108

"Who is Using Natural?" shows processing activity broken down by the individual user. Users are identified by their TP user ID.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPUSERID	1							
NATAPPL	2							
NATPROG	3							
FILE	4							
CMD	5							
IOS		Y						
COMMANDS		Y						
CMDRESP		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

None.

```
10:03:40                      WHO IS USING NATURAL                    2003-07-07
                   09:55:34 1999-06-26 Thru 09:56:17 1999-06-26       LOCL=00009

                                                Total        Total        Total
 TPUserid NAT-Appl NAT-Pgm  File Cmd             IOs        Commands     Cmd-Resp
 -------- -------- -------- ---- --- ------------- ------------ --------------

 USER1    PAA      PAANCENT    0 RC              0            1      0.000016
          PAA      PAANCENT   15 L3              4            1      0.000112
          PAA      PAANPRFD    0 RC              0            1      0.000016
          PAA      PAANPRFD   15 L3              5            3      0.000336
          PAA      PAANPRFD   63 L1              1            2      0.000160
```

```
         PAA      PAA1PRF1    0 RC              0            1      0.000016
         PAA      PAA1PRF1   15 L3              2            1      0.000112
         PAA      PACN0002    0 RC              0            1      0.000016
         PAA      PACN0002   17 S1              4            1      0.000144
******** ******** ******** **** ***            16           12      0.000928
USER2    SYS340DB P-DBLR      0 ET              2            2      0.000064
         SYS340DB P-DBLR      0 RC              0            2      0.000032
         SYS340DB P-DBLR     12 S1              1            2      0.000288

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                           +                ===>  Menu
```

32 Who Uses SYSMAIN?

- Fields Selected 112
- Report Options Selected 112
- Report Processing Rules 112

"Who Uses SYSMAIN?" shows jobs which are using SYSMAIN. The job name is shown, listing the individual users, denoted by the user's TP user ID.

The report processing rule "NATAPPL EQ SYSMAIN" assures that only jobs using SYSMAIN are shown. This processing rule may be modified to equal any Natural application name.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPUSERID	2							
FILE	3							
CMDRESP		Y						
COMMANDS		Y						
IOS		Y						
ADADURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

```
NATAPPL  EQ  SYSMAIN
```

```
10:05:06                        WHO USES SYSMAIN                      2003-07-07
                  09:57:38 1999-06-26 Thru 09:57:41 1999-06-26        LOCL=00009

                             Total         Total         Total
  CQ-Job  TPUserid File    Cmd-Resp      Commands        IOs
 -------- -------- ---- -------------- ------------ -------------

 COMPLETE USER1       0       0.000784           48             1
          USER1      15       0.000672            6             2
          USER1      16       0.000304            3             7
          USER1      17       0.011056          105            70
          USER1      18       0.001280            6            10
```

```
******** ******** ****       0.014096          168            90
******** ******** ****       0.014096          168            90

*****   E N D   O F   R E P O R T   *****



Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

33 Worst Calls... Reports

The six "Worst Calls" reports list and calculate information about the 100 "worst" Adabas calls. Each report rates its commands according to certain criteria:

Worst Calls by ...	Selects the 100 calls that ...
ADADURA	required the most Adabas processing time, and calculates a total for Adabas processing time.
CQDURA	spent the longest time in the command queue, and calculates a total for command queue duration.
DESCUPD	required the most descriptor updates, and calculates the total number of descriptor updates.
IOS	caused the most I/O operations to be performed, and calculates the total number of I/Os.
ISNQ	required the most ISNs, and calculates the total number of ISNs.
TOTDURA	required the longest processing time (i.e., time in the command queue and Adabas processing time) and calculates a total for processing time.

34 Worst Calls By ADADURA

- Fields Selected 118
- Report Options Selected 118
- Report Processing Rules 119

The report "Worst Calls by ADADURA" is an example of a "Worst Calls" report.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
SEQUENCE	1							
CQJOB	2							
TPUSERID	3							
NATAPPL	4							
NATPROG	5							
CMD	6							
FILE	7							
ADADURA	8	Y						
IOS	9							
CMDRESP	10							
COMMANDS	11	Y						

Report Options Selected

```
DISPLAY BY = SUMFIELD
ENTRIES = 100
```

Report Processing Rules

None.

```
10:06:31                    WORST CALLS BY-> ADADURA                  2003-07-07
                  09:55:59 1999-06-26 Thru 09:56:15 1999-06-26      LOCL=00009


   Seq     CQ-Job  TPUserid NAT-Appl NAT-Pgm  Cmd File      ADA-Dur
--------- -------- -------- -------- -------- --- ------- -------------

    51281 COMPLETE USER1    SYSPAC   P0SRC0P  S4    61        0.000320
    51244 COMPLETE USER2    SYS410DB S-ST241  A1    17        0.000304
    51242 COMPLETE USER2    SYS410DB S-ST241  A1    17        0.000304
    51243 COMPLETE USER2    SYS410DB S-ST241  S4    17        0.000288
    51241 COMPLETE USER2    SYS410DB S-ST241  S4    17        0.000288
    51255 COMPLETE USER1    SYSPAC   PDHTM1M  L1    18        0.000256
    51257 COMPLETE USER1    SYSPAC   PDHTM1M  S1    18        0.000240
    51292 COMPLETE USER1    SYSPAC   P0SRC0P  L3    61        0.000224
    51248 COMPLETE USER1    SYSPAC   PDHTM1M  S4    18        0.000224
    51258 COMPLETE USER1    SYSPAC   PDHTM1M  L1    18        0.000208
    51271 COMPLETE USER1    SYSPAC   PETXT0P  L3    18        0.000176
    51261 COMPLETE USER1    PAC13    SYSFUL32 L3    17        0.000176
    51256 COMPLETE USER1    SYSPAC   PDHTM1M  L1    18        0.000176

Command: ____________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

35 Worst Transactions... Reports

The three "Worst Transactions" reports list and calculate information about the 100 "worst" transactions. Each report rates its transactions according to certain criteria:

Worst Transactions by ...	Selects the 100 transactions that ...
Calls	issued the most Adabas calls.
Duration	required the most Adabas processing time, including time spent in the command queue.
IOS	caused the most I/O operations to be performed.

The number of transactions shown can be varied from 100, by changing the "ENTRIES=" option to any number desired. For example, "ENTRIES=50" displays the 50 worst transactions.

36 Worst Transactions By Calls

- Fields Selected 124
- Report Options Selected 124
- Report Processing Rules 124

The report "Worst Transactions by Calls" is an example of a "Worst Transactions" report.

This chapter covers the following topics:

Fields Selected

Field	Order	Sum	Min	Max	Avg	Pct	Rate	Round
TPTRANNM	1							
TPUSERID	2							
NATAPPL	3							
IOS		Y						
COMMANDS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

```
DISPLAY BY = USAGE
ENTRIES = 100
```

Report Processing Rules

None.

```
10:07:33                  WORST TRANSACTIONS BY CALLS                2003-07-07
                  09:56:18 1999-06-26 Thru 09:57:38 1999-06-26       LOCL=00009

                                     Total        Total          Total
  Trans Nr   TPUserid NAT-Appl        IOs        Commands      Total-Dur
 ----------- -------- -------- ------------- ------------ ----------------

         979 USER1    SYSMAIN              0           11        0.006176
         973 USER1    PAC13                5           11        0.109168
         972 USER1    PAC13                2           11        0.039760
         969 USER1    PAC13                6           11        0.232160
```

```
        955 USER1    PAC12                6           11        0.069664
        954 USER1    PAC12                3           11        0.044624
        953 USER1    PAC12                5           11        0.079280
        952 USER1    PAC12               11           11        0.241792
        655 USER2    SYSPAC              11           11        0.218096
        135 USER3    SYS340DB             1           11        0.026624
        134 USER3    SYS340DB             0           11        0.079744
        133 USER3    SYS340DB             0           11        0.015264
        132 USER3    SYS340DB             0           11        0.009696

Command:
_____________________________________________________________________________
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                          +                ===>  Menu
```

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