software AG

Adabas Review

Supplied Reports

Version 4.3.2

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Adabas Review

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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:

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●	**Rate of Commands and I/Os By Date**
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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

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

"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 *Command Logging*.

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

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

"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

"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

"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

"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

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

"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

"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

"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**

"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

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

"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

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

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

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

"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**

"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

"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

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

"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

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?

"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?

"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

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   POSRCOP  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   POSRCOP  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   PETXTOP  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

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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