

Supplied Report Reference

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 documentation for each report lists the fields (system names), report options, and report processing rules (if any) used to produce the report. To examine these report definitions online, read *Editing Existing Reports*.

The following reports are described:

- Application File Field Usage Report
- Adabas Buffer Pool Display Report
- Command Logging Report
- Commands By Hour Report
- Cost Accounting Example Report
- Descriptor Usage Report
- Exceptional Response Codes Report
- File Usage Report
- Hourly Database Overview Report
- I/O Count by Hour Report
- I/O Summary... Reports
- Job Overview Report
- Last 500 Adabas Calls Report
- Long Running Commands Report
- Natural Program Trace Report
- Natural Summary Report
- Natural Transaction Trace Report
- PRILOG Report
- Rate of Commands and I/Os by Date Report
- Rate of Commands and I/Os by Hour Report
- Summary Report by File Report

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Adabas Buffer Pool Display Report

The Adabas Buffer Pool Display Report shows the usage of Adabas buffer pools.

```

22:31:56                A D A B A S  -  R E V I E W                2009-06-19
                        ADABAS Buffer Pool Display                HUB=15690

nnnnK = Buffer Size ----- = Max Used ===== = Currently Used

!   47003K                29K      0K      0K      0K      602K
100% ---45%-              --605%-  ==605%=  ---45%-  ====7%=  --828%-
!   -----              -----  =====  -----  =====  -----
!   -----              -----  =====  -----  =====  -----
75%  -----              -----  =====  -----  =====  -----
!   -----              -----  =====  -----  =====  -----
!   -----              19K      -----  -----  -----  -----
50%  -----              ---50%-  -----  -----  -----  -----
!   -----              -----  -----  -----  -----  -----
!   -----              -----  -----  -----  -----  -----
25%  -----              -----  -----  -----  -----  -----
!   -----              -----  -----  -----  -----  -----
!   -----              33224K  ==10%=  ==1%=   =====  -----  -----
0%  -----              -----  -----  -----  -----  -----
-----
      AB-POOL  COMMAND  HOLD      USER      ISN TAB  SEQ TAB  FORMAT  WORK

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

Command Logging Report

The Command Logging report 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 FB	Y
Log SB	Y
Log RB	Y
Log VB	Y
Log IB	Y
Log IO	Y

Commands By Hour Report

The Commands by Hour report 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.

```

03:39:06                                COMMANDS BY HOUR                                2009-06-20
                                03:37:16 2009-06-20 Thru 03:38:58 2009-06-20                                HUB=15690
                                                                                               Page:    1

```

Time	Cmd	Total Num-of-I/Os	Total Commands	Total Cmd-Resp	Avg Num-of-I/Os
03:00	L3	0	12	0.998400	0.000
	RC	0	2	0.003584	0.000
	S1	0	28	3.218432	0.000
****	***	0	42	4.220416	0.000
****	***	0	42	4.220416	0.000
**** END OF REPORT ****					

```

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

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Cost Accounting Example Report

The Cost Accounting Example report 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*.

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.

```

03:41:00                                DESCRIPTOR USAGE REPORT                                2009-06-20
                                03:37:25 2009-06-20 Thru 03:40:29 2009-06-20                                HUB=15690
                                                                                               Page:    1
File  Cmd Desc-Name      Total      Total      Total      Total
                        Num-of-IOs  Commands  ADA-Dur   ISN-Qty
-----
   0 RC                                0          3      0.000336      0
***** *** *****
   50 L3 O1                            0          12     0.000592      0
      S1                                0          2     0.000416      2
      S1 O1                            0          25     0.005552     25
      S1 T1                            0          1     0.000304      1
***** *** *****
***** *** *****
                                0          40     0.006864     28
***** *** *****
                                0          43     0.007200     28

*****  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Exceptional Response Codes Report

The Exceptional Response Codes report 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.

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									

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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)

File Usage Report

The File Usage report 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.

```

03:43:13                                FILE USAGE                                2009-06-20
                                03:37:35 2009-06-20 Thru 03:42:23 2009-06-20      HUB=15690
                                                Page:    1
File      Total      Total      Total      Total      Total
      Asso-I/Os  Data-I/Os  Commands  Desc-Upd  Cmd-Resp
-----
      0           0           0           4           0           0.007168
      50          0           0           38          0           3.986944
*****          0           0           42          0           3.994112

*****  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Hourly Database Overview Report

The Hourly Database Overview report 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).

04:08:00		HOURLY DATABASE OVERVIEW				2009-06-20	
		03:37:42 2009-06-20 Thru 04:07:29 2009-06-20				HUB=15690	
						Page: 1	
Time	File	Total Num-of-IOS	Total Commands	Total Cmd-Resp	Total ADA-Dur		
03:00	0	0	12	0.021504	0.001872		
	50	0	51	5.481216	0.008976		
*****	*****	0	63	5.502720	0.010848		
04:00	0	0	4	0.007168	0.000624		
	50	0	8	0.919552	0.001840		
*****	*****	0	12	0.926720	0.002464		
*****	*****	0	75	6.429440	0.013312		
***** 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	

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

I/O Count by Hour Report

The I/O Count by Hour report 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.

```

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
Time      Total      Total      Total      Total      Total
         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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

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.

- I/O Summary by RABN Report
- I/O Summary by Volume Report

I/O Summary by RABN Report

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
IOCOMP	1							
IORABN	2							
COMMANDS		Y						

Report Options Selected

ENTRIES = 99999

Report Processing Rules

IOS GT 0

I/O Summary by Volume Report

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

```

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  Total
-----
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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Job Overview Report

The Job Overview report 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).

```

03:55:38                                JOB OVERVIEW                                2009-06-20
                                03:38:08 2009-06-20 Thru 03:54:30 2009-06-20                                HUB=15690
                                                                                               Page: 1
CQ-Job  File  Cmd  Total      Total      Total      Total
-----  ---  ---  Num-of-I/Os  Commands  Cmd-Resp  ADA-Dur
-----  ---  ---  -----
?~??q   0 RC      0           8           0.014336    0.001184
        50 L3      0           12          0.998400    0.000592
        50 S1      0           26          2.988544    0.005344
***** ***** ***           0           46          4.001280    0.007120
***** ***** ***           0           46          4.001280    0.007120

*****  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected

- Report Processing Rules

Fields Selected

Field System Name	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.

Last 500 Adabas Calls Report

The Last 500 Adabas Calls report 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.


```

03:57:18                                LAST 500 ADABAS CALLS                                2009-06-20
                                03:38:15 2009-06-20 Thru 03:57:07 2009-06-20                                HUB=15690
                                                                                                            Page:    1
Sequence  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Long Running Commands Report

The Long Running Commands report 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.

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								

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Natural Program Trace Report

The Natural Program Trace report 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.

Here is a sample of the report:

```

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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Natural Summary Report

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

NAT-Appl		NAT-Pgm		File	Cmd	Total Num-of-IOs	Total Commands	Total Cmd-Resp
				0	OP	0	1	0.506112
				0	RC	0	23	0.041216
				50	L1	0	1	0.704768
				50	L3	0	64	5.324800
				50	S1	0	44	5.057536
*****		*****		*****	***	0	133	11.634432
*****		*****		*****	***	0	133	11.634432
***** 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

```

12:12:53                                NATURAL SUMMARY                                2009-06-22
                                03:38:32 2009-06-20 Thru 12:12:30 2009-06-22                                HUB=15690

      Total
NAT-Appl  ADA-Dur
-----
                                0.096368
                                0.003088
                                0.000288
                                0.023664
                                0.019856
                                0.143264
                                0.143264

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Natural Transaction Trace Report

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

04:06:06		NATURAL TRANSACTION TRACE				2009-06-20	
		03:38:39 2009-06-20 Thru 04:05:15 2009-06-20				HUB=15690	
						Page: 1	
Trans Nr	NAT-Appl	NAT-Pgm	File	Cmd	Rsp	Total	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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

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 section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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							
ASSOIO	13							

Report Options Selected

Defaults.

Report Processing Rules

None.

Rate of Commands and I/Os by Date Report

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.

```

12:30:37                RATE OF COMMANDS AND IOS BY DATE                2009-06-22
                        04:10:23 2009-06-20 Thru 12:29:51 2009-06-22      HUB=15690
                                                                Page:    1

      Date      Time      Total      Total      Rate      Rate
      -----      -----      -----      -----      -----      -----
      Num-of-IOs  Commands  Num-of-IOs  Commands

2009-06-20 04:00          0          41          0.0          0.0
*****
          0          41
2009-06-22 12:00          0          174          0.0          0.0
*****
          0          174
          0          215

*****  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

MAX K = 16

Report Processing Rules

None.

Rate of Commands and I/Os by Hour Report

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.

12:32:48	RATE OF COMMANDS AND IOS BY HOUR				2009-06-22
	04:10:29 2009-06-20 Thru 12:32:14 2009-06-22				HUB=15690
					Page: 1
Time	Total Num-of-I/Os	Total Commands	Rate Num-of-I/Os	Rate 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			
***** END OF REPORT *****					
Command: _____					
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---					
Help Sort Exit + Menu					

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

Defaults.

Report Processing Rules

None.

Summary Report by File Report

The 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).

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                04:10:37 2009-06-20 Thru 12:34:40 2009-06-22                HUB=15690
                                                                Page:    1

```

File	File Name	Cmd	Total Num-of-I/Os	Total Commands	Total ADA-Dur
0		OP	0	1	0.096368
		RC	0	24	0.002512
*****	*****	***	0	25	0.098880
50		L3	0	1	0.000000
	?USER Reposito	L1	0	1	0.000288
	?USER Reposito	L3	0	165	0.035312
	?USER Reposito	S1	0	28	0.014752
*****	*****	***	0	195	0.050352
*****	*****	***	0	220	0.149232
***** 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

```

```

12:34:51                SUMMARY REPORT BY FILE                2009-06-22
                04:10:37 2009-06-20 Thru 12:34:40 2009-06-22                HUB=15690

```

File	Total Cmd-Resp	Avg Num-of-IOs	Avg ADA-Dur	Avg Cmd-Resp
0	0.506112	0.000	0.096368	0.506112
	0.043008	0.000	0.000104	0.001792
	0.549120	0.000	0.003955	0.021964
50	0.081920	0.000	0.000000	0.081920
	0.704768	0.000	0.000288	0.704768
	13.647872	0.000	0.000214	0.082714
	3.218432	0.000	0.000526	0.114944
	17.652992	0.000	0.000258	0.090528
	18.202112	0.000	0.000678	0.082736

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10---PF11---PF12---
 Help Sort Exit -- + <=== Menu

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Thread Activity Report

The Thread Activity report 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).

```

12:37:06                                THREAD ACTIVITY                                2009-06-22
                                04:10:46 2009-06-20 Thru 12:36:44 2009-06-22                                HUB=15690
                                                                                               Page:    1

```

Thread	Total Num-of-I/Os	Total Commands	Avg Num-of-I/Os	Avg 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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Thread Activity by Command Report

The Thread Activity by Command report 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.

12:42:29		THREAD ACTIVITY BY COMMAND				2009-06-22	
		12:40:31 2009-06-22 Thru 12:42:13 2009-06-22				HUB=15690	
						Page: 1	
Thread	Cmd	Total Num-of-I/Os	Total Commands	Total Total-Dur	Total ADA-Dur		
1	L3	0	18	65281.124466	0.002160		
	RC	0	1	3840.066162	0.000144		
	S1	0	36	138242.384728	0.008080		
*****	***	0	55	207363.575356	0.010384		
*****	***	0	55	207363.575356	0.010384		
***** 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	

```

12:42:29                                THREAD ACTIVITY BY COMMAND                                2009-06-22
                                           12:40:31 2009-06-22 Thru 12:42:13 2009-06-22                                HUB=15690

```

Thread	Total CQ Dur	Avg Num-of-IOs	Avg Total-Dur	Avg ADA-Dur
1	65281.122306	0.000	3626.729137	0.000120
	3840.066018	0.000	3840.066162	0.000144
	138242.376648	0.000	3840.066242	0.000224
	207363.564972	0.000	3770.246824	0.000188
	207363.564972	0.000	3770.246824	0.000188

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

```

12:42:29                                THREAD ACTIVITY BY COMMAND                                2009-06-22
                                           12:40:31 2009-06-22 Thru 12:42:13 2009-06-22                                HUB=15690

```

Thread	Avg CQ Dur
1	3626.729017
	3840.066018
	3840.066018
	3770.246635
	3770.246635

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

This section covers the following topics:

- Fields Selected
- Report Options Selected

- Report Processing Rules

Fields Selected

Field System Name	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.

Transaction Count... Reports

For transaction numbers not equal to zero, the 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.
- Transaction Count by Job Report
- Transaction Count by Job-NATAPPL Report
- Transaction Count by Job-User Report
- Transaction Count by Natural Report

Transaction Count by Job Report

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

```

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
CQ-Job      Total      Total      Total      Total
            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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Transaction Count by Job-NATAPPL Report

The Transaction Count by Job-NATAPPL report includes and sorts the transaction count report by job and Natural application name.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
NATAPPL	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Count by Job-User Report

The Transaction Count by Job-User report includes and sorts the transaction count report by job and TP monitor user ID.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
CQJOB	1							
TPUSERID	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Count by Natural Report

The Transaction Count by Job-User report includes and sorts the transaction count report by Natural application name and program name.

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	Order	Sum	Min	Max	Avg	Pct	Rate	Round
NATAPPL	1							
NATPROG	2							
TPTRANCT		Y						
COMMANDS		Y						
IOS		Y						
TOTDURA		Y						
ADADURA		Y						
CQDURA		Y						

Report Options Selected

Defaults.

Report Processing Rules

TPTRANNM NE 0

Transaction Detailed Information Report

The Transaction Detailed Information report 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.

Here is a sample report:

```

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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Transaction Summary by User Report

Similar to the Transaction Count reports, the 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.

Here is a sample report:

```

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
*****
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
*****
USER3      2280             5              11             0.100288
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Sort Exit                                +                                ==> Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

Who is Using Natural? Report

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

```

13:03:25                WHO IS USING NATURAL                2009-06-22
                        12:41:09 2009-06-22 Thru 13:02:42 2009-06-22      HUB=15690
                                                                Page:    1
TPUserid NAT-Appl NAT-Pgm  File  Cmd  Total      Total
-----
                        0 RC                0        11
                        50 L3                0         6
                        50 S1                0        44
***** ***** ***** ***** ***                0        61
***** ***** ***** ***** ***                0        61

*****  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
    
```

```

13:03:25                WHO IS USING NATURAL                2009-06-22
                        12:41:09 2009-06-22 Thru 13:02:42 2009-06-22      HUB=15690

TPUserid      Total      Total
      Cmd-Resp      ADA-Dur
-----
                        0.019712      0.001776
                        0.491520      0.000880
                        5.057536      0.012656
                        5.568768      0.015312
                        5.568768      0.015312

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


This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Who Uses SYSMAIN? Report

The Who Uses SYSMAIN? report 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.

Here is a sample report:

```

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
                                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
***** ***** *****
                ***** ***** *****
                ***** ***** *****
                ***** ***** *****
                ***** ***** *****
*****  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
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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

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.

- Worst Calls by ADADURA Report
- Worst Calls by CQ DURA Report
- Worst Calls by DESC UPD Report
- Worst Calls by IOs Report
- Worst Calls by ISN QUAN Report
- Worst Calls by TOTDURA Report

Worst Calls by ADADURA Report

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

```

13:12:51                WORST CALLS BY-> ADADURA                2009-06-22
                        13:00:51 2009-06-22 Thru 13:10:53 2009-06-22      HUB=15690
                                                                Page:    1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	ADA-Dur
932	?~??q				RC	0	0.000160
935	?~??q				RC	0	0.000208
936	?~??q				S1	50	0.000336
933	?~??q				S1	50	0.000400
934	?~??q				S1	50	0.000896
937	?~??q				S1	50	0.000640
938	?~??q				RC	0	0.000144
939	?~??q				S1	50	0.000320
940	?~??q				S1	50	0.000144
941	?~??q				RC	0	0.000160
942	?~??q				S1	50	0.000272
943	?~??q				S1	50	0.000144
946	?~??q				S1	50	0.000144

```

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

```

```

13:12:51                WORST CALLS BY-> ADADURA                2009-06-22
                        13:00:51 2009-06-22 Thru 13:10:53 2009-06-22      HUB=15690

```

Sequence	Num-of-IOs	Cmd-Resp	Total ADA-Dur	Total Commands
932	0	0.001792	0.000160	1
935	0	0.001792	0.000208	1
936	0	0.114944	0.000336	1
933	0	0.114944	0.000400	1
934	0	0.114944	0.000896	1
937	0	0.114944	0.000640	1
938	0	0.001792	0.000144	1
939	0	0.114944	0.000320	1
940	0	0.114944	0.000144	1
941	0	0.001792	0.000160	1
942	0	0.114944	0.000272	1
943	0	0.114944	0.000144	1
946	0	0.114944	0.000144	1

```

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

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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		Y						

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by CQ DURA Report

The Worst Calls by CQ DURA report is an example of a Worst Calls report.

```

13:16:05                                WORST CALLS BY-> CQ DURA                                2009-06-22
                                           13:04:33 2009-06-22 Thru 13:16:00 2009-06-22                HUB=15690
                                                                                                           Page:      1
-----
Sequence      CQ-Job      TPUserid  NAT-Appl  NAT-Pgm  Cmd  File      CQ Dur
-----
    940    ?~??q
    941    ?~??q
    942    ?~??q
    943    ?~??q
    944    ?~??q
    945    ?~??q
    946    ?~??q
    947    ?~??q
    948    ?~??q
    949    ?~??q
    950    ?~??q
*****
Command:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                ==>  Menu
    
```

```

13:16:05                                WORST CALLS BY-> CQ DURA                                2009-06-22
                                           13:04:33 2009-06-22 Thru 13:16:00 2009-06-22                HUB=15690
-----
Sequence      ADA-Dur      Num-of-IOs      Total
-----
    940      0.000144      0      3840.066018
    941      0.000160      0      3840.066018
    942      0.000272      0      3840.066018
    943      0.000144      0      3840.066018
    944      0.000160      0      3840.066018
    945      0.000304      0      3840.066018
    946      0.000144      0      3840.066018
    947      0.000160      0      3840.066018
    948      0.000304      0      3840.066018
    949      0.000144      0      3840.066018
    950      0.000192      0      3840.066018
*****
                                           42240.726198
Command:
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                <===  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by DESC UPD Report

The Worst Calls by DESC UPD report is an example of a Worst Calls report.

```

13:19:15                                WORST CALLS BY-> DESC UPD                                2009-06-22
                                           13:03:24 2009-06-22 Thru 13:19:03 2009-06-22                HUB=15690
                                                                                                           Page:    1
-----
Sequence      CQ-Job      TPUserid  NAT-Appl  NAT-Pgm  Cmd  File      Desc-Upd
-----
938  ?~??q      RC        0        0
939  ?~??q      S1       50       0
940  ?~??q      S1       50       0
941  ?~??q      RC        0        0
942  ?~??q      S1       50       0
943  ?~??q      S1       50       0
944  ?~??q      RC        0        0
945  ?~??q      S1       50       0
946  ?~??q      S1       50       0
947  ?~??q      RC        0        0
948  ?~??q      S1       50       0
949  ?~??q      S1       50       0
950  ?~??q      RC        0        0

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

```

13:19:15                                WORST CALLS BY-> DESC UPD                                2009-06-22
                                           13:03:24 2009-06-22 Thru 13:19:03 2009-06-22                HUB=15690
-----
Sequence      ADA-Dur      Num-of-IOs      Total Desc-Upd      Total Commands
-----
938      0.000144      0                0                1
939      0.000320      0                0                1
940      0.000144      0                0                1
941      0.000160      0                0                1
942      0.000272      0                0                1
943      0.000144      0                0                1
944      0.000160      0                0                1
945      0.000304      0                0                1
946      0.000144      0                0                1
947      0.000160      0                0                1
948      0.000304      0                0                1
949      0.000144      0                0                1
950      0.000192      0                0                1

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Calls by IOs Report

The Worst Calls by IOs report is an example of a Worst Calls report.

```

13:23:55                                WORST CALLS BY-> IOS                                2009-06-22
                                           13:03:24 2009-06-22 Thru 13:23:40 2009-06-22           HUB=15690
                                                                                               Page:    1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	Num-of-IOs
938	?~??q				RC	0	0
939	?~??q				S1	50	0
940	?~??q				S1	50	0
941	?~??q				RC	0	0
942	?~??q				S1	50	0
943	?~??q				S1	50	0
944	?~??q				RC	0	0
945	?~??q				S1	50	0
946	?~??q				S1	50	0
947	?~??q				RC	0	0
948	?~??q				S1	50	0
949	?~??q				S1	50	0
950	?~??q				RC	0	0

```

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

```

```

13:23:55                                WORST CALLS BY-> IOS                                2009-06-22
                                           13:03:24 2009-06-22 Thru 13:23:40 2009-06-22           HUB=15690

```

Sequence	ADA-Dur	Cmd-Resp	Total Num-of-IOs	Total Commands
938	0.000144	0.001792	0	1
939	0.000320	0.114944	0	1
940	0.000144	0.114944	0	1
941	0.000160	0.001792	0	1
942	0.000272	0.114944	0	1
943	0.000144	0.114944	0	1
944	0.000160	0.001792	0	1
945	0.000304	0.114944	0	1
946	0.000144	0.114944	0	1
947	0.000160	0.001792	0	1
948	0.000304	0.114944	0	1
949	0.000144	0.114944	0	1
950	0.000192	0.001792	0	1

```

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

```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by ISN QUAN Report

The Worst Calls by ISN QUAN report is an example of a Worst Calls report.

```

13:27:03                                WORST CALLS BY-> ISN QUAN                                2009-06-22
                                           13:13:52 2009-06-22 Thru 13:26:53 2009-06-22                                HUB=15690
                                                                                                                                Page:    1
-----
Sequence      CQ-Job      TPUserid  NAT-Appl  NAT-Pgm  Cmd  File      ISN-Qty
-----
          950  ?~??q                RC      0      0
          953  ?~??q                RC      0      0
          956  ?~??q                RC      0      0
          959  ?~??q                RC      0      0
          948  ?~??q                S1     50     1
          949  ?~??q                S1     50     1
          951  ?~??q                S1     50     1
          952  ?~??q                S1     50     1
          954  ?~??q                S1     50     1
          955  ?~??q                S1     50     1
          957  ?~??q                S1     50     1
          958  ?~??q                S1     50     1
*****
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                ===>  Menu
    
```

```

13:27:03                                WORST CALLS BY-> ISN QUAN                                2009-06-22
                                           13:13:52 2009-06-22 Thru 13:26:53 2009-06-22                                HUB=15690
-----
Sequence      ADA-Dur      Num-of-IOs      Total ISN-Qty      Total Commands
-----
          950      0.000192          0          0          1
          953      0.000144          0          0          1
          956      0.000176          0          0          1
          959      0.000192          0          0          1
          948      0.000304          0          1          1
          949      0.000144          0          1          1
          951      0.000320          0          1          1
          952      0.000128          0          1          1
          954      0.000288          0          1          1
          955      0.000160          0          1          1
          957      0.000336          0          1          1
          958      0.000176          0          1          1
          *****          *****          8          12
Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Sort  Exit                --                +                <===  Menu
    
```

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
ENTRIES = 100

Report Processing Rules

None.

Worst Calls by TOTDURA Report

The Worst Calls by TOTDURA report is an example of a Worst Calls report.

```

13:47:18                                WORST CALLS BY-> TOTDURA                                2009-06-22
                                           13:13:52 2009-06-22 Thru 13:46:58 2009-06-22                                HUB=15690
                                                                                                                                Page:    1

```

Sequence	TPUserid	NAT-Pgm	Cmd	Total-Dur	ADA-Dur
949			S1	3840.066162	0.000144
950			RC	3840.066210	0.000192
952			S1	3840.066146	0.000128
953			RC	3840.066162	0.000144
954			S1	3840.066306	0.000288
955			S1	3840.066178	0.000160
956			RC	3840.066194	0.000176
958			S1	3840.066194	0.000176
959			RC	3840.066210	0.000192
960			S1	0.000000	0.000000
961			OP	3840.066290	0.000272
962			RC	3840.066162	0.000144
963			S1	3840.066194	0.000176

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

```

13:47:18                                WORST CALLS BY-> TOTDURA                                2009-06-22
                                           13:13:52 2009-06-22 Thru 13:46:58 2009-06-22                                HUB=15690

```

Sequence	CQ Dur	File	CQ-Job	NAT-Appl	Total Total-Dur
949	3840.066018	50	?~??q		3840.066162
950	3840.066018	0	?~??q		3840.066210
952	3840.066018	50	?~??q		3840.066146
953	3840.066018	0	?~??q		3840.066162
954	3840.066018	50	?~??q		3840.066306
955	3840.066018	50	?~??q		3840.066178
956	3840.066018	0	?~??q		3840.066194
958	3840.066018	50	?~??q		3840.066194
959	3840.066018	0	?~??q		3840.066210
960	0.000000	50	?~??q		0.000000
961	3840.066018	0	?~??q		3840.066290
962	3840.066018	0	?~??q		3840.066162
963	3840.066018	50	?~??q		3840.066194

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

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.

- Worst Transactions by Calls Report

- Worst Transactions by Duration Report
- Worst Transactions by IOs Report

Worst Transactions by Calls Report

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

```

13:53:22                                WORST TRANSACTIONS BY CALLS                                2009-06-22
                                           12:41:47 2009-06-22 Thru 13:53:02 2009-06-22                                HUB=15690
                                                                                                                                 Page:    1

Trans Nr  TPUserid NAT-Appl      Total          Total          Total
          TPUserid NAT-Appl  Num-of-IOs    Commands      Total-Dur
-----
          0                                0             177           672011.70686
*****  *****  *****
          0                                0             177           672011.70686

****  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
    
```

```

13:53:22                                WORST TRANSACTIONS BY CALLS                                2009-06-22
                                           12:41:47 2009-06-22 Thru 13:53:02 2009-06-22                                HUB=15690

Trans Nr      Total          Total
          ADA-Dur      CQ Dur
-----
          0             0.153536      672011.553150
          0             0.153536      672011.553150

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


This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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.

Worst Transactions by Duration Report

The report Worst Transactions by Duration report is an example of a Worst Transactions report.

```

13:55:05                WORST TRANSACTIONS BY DURATION                2009-06-22
                        12:41:51 2009-06-22 Thru 13:54:55 2009-06-22      HUB=15690
                                                                Page:    1

```

Trans Nr	TPUserid	NAT-Appl	Total Total-Dur	Total Commands	Total Num-of-IOs
0			668171.641036	176	0
*****	*****	*****	668171.641036	176	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

```

13:55:05                WORST TRANSACTIONS BY DURATION                2009-06-22
                        12:41:51 2009-06-22 Thru 13:54:55 2009-06-22      HUB=15690

```

Trans Nr	Total ADA-Dur	Total CQ Dur
0	0.153904	668171.487132
	0.153904	668171.487132

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

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

Report Options Selected

DISPLAY BY = SUMFIELD
 ENTRIES = 100

Report Processing Rules

None.

Worst Transactions by IOs Report

The report Worst Transactions by IOs report is an example of a Worst Transactions report.

```

13:58:05                                WORST TRANSACTIONS BY IOS                                2009-06-22
                                12:42:13 2009-06-22 Thru 13:58:01 2009-06-22                                HUB=15690
                                                                                                            Page: 1
Trans Nr   TPUserid NAT-Appl   Total          Total          Total
          -----  -----  Num-of-IOs    Commands      Total-Dur
          -----  -----  -----  -----  -----
              0                                0            175      664331.577274
*****      *****      *****                                0            175      664331.577274
*****      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
    
```

```

13:58:05                                WORST TRANSACTIONS BY IOS                                2009-06-22
                                12:42:13 2009-06-22 Thru 13:58:01 2009-06-22                                HUB=15690

Trans Nr          Total          Total
                ADA-Dur         CQ Dur
-----
                0          0.156160    664331.421114
                                0.156160    664331.421114

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

This section covers the following topics:

- Fields Selected
- Report Options Selected
- Report Processing Rules

Fields Selected

Field System Name	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 = SUMFIELD
ENTRIES = 100

Worst Transactions by IOs Report

Supplied Report Reference

Report Processing Rules

None.