

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

- Thread Activity Report
- Thread Activity by Command Report
- Transaction Count... Reports
- Transaction Detailed Information Report
- Transaction Summary by User Report
- Who is Using Natural? Report
- Who Uses SYSMAIN? Report
- Worst Calls... Reports
- Worst Transactions... Reports

Application File Field Usage Report

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).

20:50:35		APPLICATION FILE FIELD USAGE			2009-06-18	
		2009-06-18 Thru 2009-06-18			HUB=15690	
					Page: 1	
NAT-Appl	File	Fld-Name	Total Num-of-I/Os	Total Commands	Total Cmd-Resp	
			0	34	0.113408	
			50	85	6.183168	
	50	AB	0	14	4.649984	
	50	AI	0	5	2.564480	
	50	AK	0	5	2.564480	
	50	AL	0	5	2.564480	
	50	AM	0	5	2.564480	
	50	AN	0	5	2.564480	
	50	AZ	0	5	2.564480	
	50	OA	0	163	12.200576	
	50	OB	0	15	1.862784	
	50	OC	0	101	7.873152	
	50	OD	0	103	8.088064	

Command: _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---

Help 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							
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          Total          Total          Avg
      Num-of-IOS  Commands      Cmd-Resp      Num-of-IOS
-----
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

*****  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							
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              3            0.000336      0
      S1                               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
11:27:13			EXCEPTIONAL RESPONSE CODES					2003-07-07	
			10:50:09 1999-06-23 Thru 10:54:51 1999-06-23					LOCL=00009	
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-IOs    Data-IOs    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-I/Os	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.

Volser	IO-TYPE	IO-Comp	Commands
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

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

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

10:57:09		NATURAL SUMMARY				2010-06-24	
		10:56:59 2010-06-24 Thru 10:57:04 2010-06-24				HUB=00205	
						Page: 1	
NAT-Appl	NAT-Pgm	File	Cmd	Total Num-of-IOs	Total Commands	Total Cmd-Resp	
SYSREVD	N--FKEYW	0	RC	0	1	1.000000	
	N--FKEYW	8	L3	0	1	1.000000	
	N--RPROF	0	RC	0	2	2.000000	
	N--RPROF	8	L3	0	2	2.000000	
	N--UPROF	8	S1	0	2	2.000000	
	N-NTFILE	8	S1	0	2	2.000000	
	P-DBLR	0	RC	0	3	3.000000	
	P-DBLR	8	L3	0	1	1.000000	
	P-DBLR	8	S1	1	2	2.000000	
	P-DBLR	33	S1	0	1	1.000000	
	P-DBLS	0	RC	0	1	1.000000	
	P-DBLS	8	L3	0	1	1.000000	
	P-DBLS	8	S1	0	1	1.000000	

Command: _____

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

```

10:57:09                                NATURAL SUMMARY                                2010-06-24
                                10:56:59 2010-06-24 Thru 10:57:04 2010-06-24                                HUB=00205

      Total
NAT-Appl  ADA-Dur
-----
SYSREVD  1.048576
          1.048576
          2.097152
          2.097152
          2.097152
          2.097152
          3.145728
          1.048576
          2.097152
          1.048576
          1.048576
          1.048576
          1.048576

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

Trans Nr	NAT-Appl	NAT-Pgm	File	Cmd	Rsp	Total Commands
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
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-I/Os  Commands  Num-of-I/Os  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      Total      Rate      Rate
  Num-of-I/Os  Commands  Num-of-I/Os  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
    
```

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.

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.

10:51:51		WHO IS USING NATURAL				2010-06-24	
		10:51:40	2010-06-24	Thru 10:51:50	2010-06-24	HUB=00205	
						Page: 1	
TPUserid	NAT-Appl	NAT-Pgm	File	Cmd	Total Num-of-IOs	Total Commands	
XXX	SYSREVD	N-CHKMN		0 RC	0	8	
	SYSREVD	N-CHKMN		8 L3	0	8	
	SYSREVD	N-CHKMN		8 S1	0	8	
	SYSREVD	N-NTFILE		8 S1	0	2	
	SYSREVD	P-DBER		0 RC	0	5	
	SYSREVD	P-DBER		8 L3	0	5	
	SYSREVD	P-DBER		8 S1	0	6	
	SYSREVD	P-DBLR		0 RC	0	3	
	SYSREVD	P-DBLR		8 L3	0	1	
	SYSREVD	P-DBLR		8 S1	0	1	
	SYSREVD	P-DBLR		33 L3	0	36	
	SYSREVD	P-DBLS		0 RC	0	1	
	SYSREVD	P-DBLS		8 L3	2	1	

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

10:51:51		WHO IS USING NATURAL				2010-06-24	
		10:51:40	2010-06-24	Thru 10:51:50	2010-06-24	HUB=00205	
TPUserid	Total Cmd-Resp	Total ADA-Dur					
XXX	8.000000	8.388608					
	8.000000	8.388608					
	8.000000	8.388608					
	2.000000	2.097152					
	5.000000	5.242880					
	5.000000	5.242880					
	6.000000	6.291456					
	3.000000	3.145728					
	1.000000	1.048576					
	1.000000	1.048576					
	36.000000	37.748736					
	1.000000	1.048576					
	1.000000	1.048576					

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

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.

```

11:48:29                                WORST CALLS BY-> ADADURA                                2010-06-24
                                11:48:22 2010-06-24 Thru 11:48:28 2010-06-24                                LOCL=00204
                                                                                               Page:      1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	ADA-Dur
123	XXX	XXX	SYSREVD	SR-00016	V4	0	0.000000
122	XXX	XXX	SYSREVD	SR-00016	S1	8	0.000071
121	XXX	XXX	SYSREVD	SR-00016	S1	8	0.005856
120	XXX	XXX	SYSREVD	P-DBVWRT	RC	0	0.000384
119	XXX	XXX	SYSREVD	P-DBVWRT	RC	0	0.000065
118	XXX	XXX	SYSREVD	P-DBVWRT	L3	8	0.006766
117	XXX	XXX	SYSREVD	P-DBVWRT	S1	8	0.000104
116	XXX	XXX	SYSREVD	USR1029N	RC	0	0.000119
115	XXX	XXX	SYSREVD	USR1029N	L3	8	0.014382

***** 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 -- Rdsp + ==> Menu

```

11:48:29                                WORST CALLS BY-> ADADURA                                2010-06-24
                                11:48:22 2010-06-24 Thru 11:48:28 2010-06-24                                LOCL=00204

```

Sequence	Num-of-IOs	Cmd-Resp	Total ADA-Dur	Total Commands
123	0	0.000000	0.000000	1
122	0	0.044000	0.000071	1
121	2	0.151750	0.005856	1
120	0	0.007500	0.000384	1
119	0	0.007625	0.000065	1
118	9	0.761750	0.006766	1
117	0	0.049000	0.000104	1
116	0	0.008000	0.000119	1
115	4	0.406875	0.014382	1
*****			0.027747	9

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

```

12:08:15                                WORST CALLS BY-> CQ DURA                                2010-06-24
                                12:08:10 2010-06-24 Thru 12:08:14 2010-06-24                                LOCL=00204
                                                                Page:      1
-----
Sequence      CQ-Job  TPUserid NAT-Appl NAT-Pgm  Cmd  File      CQ Dur
-----
      277 XXX      XXX      SYSREVD  SR-00014 V4      0      0.000000
      276 XXX      XXX      SYSREVD  SR-00014 S1      8      0.000384
      275 XXX      XXX      SYSREVD  SR-00014 S1      8      0.000080
      274 XXX      XXX      SYSREVD  P-DBLS   RC      0      0.000032
      273 XXX      XXX      SYSREVD  P-DBLS   RC      0      0.000288
      272 XXX      XXX      SYSREVD  P-DBLS   L3      8      0.000160
      271 XXX      XXX      SYSREVD  P-DBLS   S1      8      0.000064
*****
*****  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      --      Rdsp  +      ==>  Menu
    
```

```

12:08:15                                WORST CALLS BY-> CQ DURA                                2010-06-24
                                12:08:10 2010-06-24 Thru 12:08:14 2010-06-24                                LOCL=00204
-----
Sequence      ADA-Dur      Num-of-IOs      Total
                                CQ Dur
-----
      277      0.000000      0      0.000000
      276      0.000487      0      0.000384
      275      0.000167      0      0.000080
      274      0.000027      0      0.000032
      273      0.000319      0      0.000288
      272      0.013165      7      0.000160
      271      0.009379      1      0.000064
*****
*****                                0.001008
*****

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

```

12:12:17                                WORST CALLS BY-> DESC UPD                                2010-06-24
                                12:12:16 2010-06-24 Thru 12:12:16 2010-06-24                                LOCL=00204
                                                                                               Page:    1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	Desc-Upd
585	XXX	XXX	SYSREVDB	SR-00015	V4	0	0
584	XXX	XXX	SYSREVDB	P-DBVWRT	RC	0	0
583	XXX	XXX	SYSREVDB	P-DBVWRT	RC	0	0
582	XXX	XXX	SYSREVDB	P-DBVWRT	L3	8	0
581	XXX	XXX	SYSREVDB	P-DBVWRT	S1	8	0
580	XXX	XXX	SYSREVDB	USR1029N	RC	0	0
579	XXX	XXX	SYSREVDB	USR1029N	L3	8	0
578	XXX	XXX	SYSREVDB	USR1029N	S1	8	0
577	XXX	XXX	SYSREVDB	NAT00060	RC	0	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 -- Rdsp + ==> Menu

```

12:12:17                                WORST CALLS BY-> DESC UPD                                2010-06-24
                                12:12:16 2010-06-24 Thru 12:12:16 2010-06-24                                LOCL=00204

```

Sequence	ADA-Dur	Num-of-IOs	Total Desc-Upd	Total Commands
585	0.000000	0	0	1
584	0.000117	0	0	1
583	0.000100	0	0	1
582	0.000481	0	0	1
581	0.007516	0	0	1
580	0.000493	0	0	1
579	0.003002	0	0	1
578	0.000925	0	0	1
577	0.000040	0	0	1
*****			0	9

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

```

12:20:02                                WORST CALLS BY-> IOS                                2010-06-24
                                12:19:53 2010-06-24 Thru 12:20:01 2010-06-24                                LOCL=00204
                                                                                               Page:    1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	Num-of-IOs
767	XXX	XXX	SYSREVD	SR-00017	V4		0
766	XXX	XXX	SYSREVD	P-DBVWRT	RC		0
765	XXX	XXX	SYSREVD	P-DBVWRT	RC		0
764	XXX	XXX	SYSREVD	P-DBVWRT	L3		8
763	XXX	XXX	SYSREVD	P-DBVWRT	S1		8
762	XXX	XXX	SYSREVD	USR1029N	RC		0
761	XXX	XXX	SYSREVD	USR1029N	L3		8
760	XXX	XXX	SYSREVD	USR1029N	S1		8

***** 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 -- Rdsp + ==> Menu

```

12:20:02                                WORST CALLS BY-> IOS                                2010-06-24
                                12:19:53 2010-06-24 Thru 12:20:01 2010-06-24                                LOCL=00204

```

Sequence	ADA-Dur	Cmd-Resp	Total Num-of-IOs	Total Commands
767	0.000000	0.000000	0	1
766	0.000096	0.007250	0	1
765	0.000211	0.012875	0	1
764	0.026738	1.184625	7	1
763	0.000160	0.095125	0	1
762	0.000620	0.004750	0	1
761	0.000252	0.175750	0	1
760	0.000708	0.087625	0	1
*****			7	8

Command: _____

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

```

12:25:36                                WORST CALLS BY-> ISN QUAN                                2010-06-24
                                12:25:27 2010-06-24 Thru 12:25:35 2010-06-24                                LOCL=00204
                                                                                               Page:      1

```

Sequence	CQ-Job	TPUserid	NAT-Appl	NAT-Pgm	Cmd	File	ISN-Qty
934	XXX	XXX	SYSREVD	P-DBVWR	L3	8	0
933	XXX	XXX	SYSREVD	P-DBVWR	S1	8	1
932	XXX	XXX	SYSREVD	USR1029	RC	0	0
931	XXX	XXX	SYSREVD	USR1029	L3	8	0
930	XXX	XXX	SYSREVD	USR1029	S1	8	1

***** 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 -- Rdsp + ==> Menu

```

12:25:36                                WORST CALLS BY-> ISN QUAN                                2010-06-24
                                12:25:27 2010-06-24 Thru 12:25:35 2010-06-24                                LOCL=00204

```

Sequence	ADA-Dur	Num-of-IOs	Total ISN-Qty	Total Commands
934	0.015030	7	0	1
933	0.000056	0	1	1
932	0.000026	0	0	1
931	0.000107	0	0	1
930	0.000096	0	1	1
*****			2	5

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

```

12:41:07                                WORST CALLS BY-> TOTDURA                                2010-06-24
                                           12:41:07 2010-06-24 Thru 12:41:07 2010-06-24                                LOCL=00204
                                                                                                         Page:      1

```

Sequence	TPUserid	NAT-Pgm	Cmd	Total-Dur	ADA-Dur
1110	XXX	SR-00019	V4	0.000000	0.000000
1109	XXX	SR-00019	S1	0.000344	0.000184
1108	XXX	SR-00019	S1	0.001312	0.000720
1107	XXX	P-DBVWRT	RC	0.000035	0.000019
1106	XXX	P-DBVWRT	RC	0.000075	0.000043

***** 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 -- Rdsp + ==> Menu

```

12:41:07                                WORST CALLS BY-> TOTDURA                                2010-06-24
                                           12:41:07 2010-06-24 Thru 12:41:07 2010-06-24                                LOCL=00204

```

Sequence	CQ Dur	File	CQ-Job	NAT-Appl	Total Dur
1110	0.000000	0 XXX		SYSREVDB	0.000000
1109	0.000160	8 XXX		SYSREVDB	0.000344
1108	0.000592	8 XXX		SYSREVDB	0.001312
1107	0.000016	0 XXX		SYSREVDB	0.000035
1106	0.000032	0 XXX		SYSREVDB	0.000075
*****					0.001766

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

```

12:47:50                                WORST TRANSACTIONS BY CALLS                                2010-06-24
                                12:45:38 2010-06-24 Thru 12:47:49 2010-06-24                                LOCL=00204
                                                                                                            Page:      1
-----
Trans Nr   TPUserid NAT-Appl   Total          Total          Total
          TPUserid NAT-Appl   Num-of-IOs     Commands      Total-Dur
-----
          0 XXX      SYSREVDB           9             56           0.053288
*****  *****  *****           9             56           0.053288

*****  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                --   Rdsp  +                               ==>  Menu
    
```

```

12:47:50                                WORST TRANSACTIONS BY CALLS                                2010-06-24
                                12:45:38 2010-06-24 Thru 12:47:49 2010-06-24                                LOCL=00204

Trans Nr   Total          Total
          ADA-Dur      CQ Dur
-----
          0           0.036936      0.016352
          0           0.036936      0.016352

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

```

12:52:32                WORST TRANSACTIONS BY DURATION                2010-06-24
                        12:52:20 2010-06-24 Thru 12:52:31 2010-06-24      LOCL=00204
                                                Page:      1

```

Trans Nr	TPUserid	NAT-Appl	Total Total-Dur	Total Commands	Total Num-of-IOs
0	XXX	SYSREVDDB	0.075285	50	9
*****	*****	*****	0.075285	50	9
***** 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 -- Rdsp + <==> Menu

```

12:52:32                WORST TRANSACTIONS BY DURATION                2010-06-24
                        12:52:20 2010-06-24 Thru 12:52:31 2010-06-24      LOCL=00204

```

Trans Nr	Total ADA-Dur	Total CQ Dur
0	0.071541	0.003744
	0.071541	0.003744

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

```

12:56:58                                WORST TRANSACTIONS BY IOS                                2010-06-24
                                12:56:48 2010-06-24 Thru 12:56:58 2010-06-24                                LOCL=00204
                                                                                                            Page: 1
Trans Nr   TPUserid NAT-Appl   Total          Total          Total
          NAT-Appl Num-of-IOs  Commands      Total-Dur
-----
          0 XXX      SYSREVD  9              71            0.054694
*****
          *****  *****  9              71            0.054694
*****
*****  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              --   Rdsp   +              ==>  Menu
    
```

```

12:56:58                                WORST TRANSACTIONS BY IOS                                2010-06-24
                                12:56:48 2010-06-24 Thru 12:56:58 2010-06-24                                LOCL=00204

Trans Nr          Total          Total
                ADA-Dur          CQ Dur
-----
                0          0.042710          0.011984
                0.042710          0.011984

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

Report Processing Rules

None.