

## **Adabas Review**

### **Cost Accounting Example**

Version 4.3.2

September 2009

This document applies to Adabas Review Version 4.3.2 and to all subsequent releases.

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

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# 1 Cost Accounting Example

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Adabas Review may be used to collect Adabas user resource consumption data that can be manipulated for cost accounting and charge-back purposes. This data can be processed and viewed online or in batch, or it can be downloaded to a personal computer for further processing.

The Adabas Review Cost Accounting Example documentation is organized in the following topics:

 <a href="#">Viewing Data Online</a>
 <a href="#">Processing Data in Batch Mode</a>
 <a href="#">Review Command Response Time Calculation</a>



## 2 Viewing Data Online

A sample cost accounting report "Cost Accounting Example" is supplied with Review. It may be used without modification, customized to suit site requirements, or used as a basis for other cost accounting reports. The report definition for the "Cost Accounting Example" report is shown below:

```
12:08:58          A D A B A S - R E V I E W          2003-07-07
                  Edit Report                        HUB=00221

Report Name: COST ACCOUNTING EXAMPLE_____ DBID to Monitor:___

+-----+-----+
| Field      | Order | Sum | Min | Max | Avg | Pct | Rate | Round |
+-----+-----+
| CQJOB____ |   _1  |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
| TPUSERID  |   _2  |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
| COMMANDS  |   ___ |  X  |  -  |  -  |  -  |  -  |  -  |  _____ |
| IOS____   |   ___ |  X  |  -  |  -  |  -  |  -  |  -  |  _____ |
| CMDRESP_  |   ___ |  X  |  -  |  -  |  -  |  -  |  -  |  _____ |
| ADADURA_ |   ___ |  X  |  -  |  -  |  -  |  -  |  -  |  _____ |
| _____|   ___ |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
| _____|   ___ |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
| _____|   ___ |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
| _____|   ___ |  -  |  -  |  -  |  -  |  -  |  -  |  _____ |
+-----+-----+
Page 1

Command: _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Optns Exit          Save Start - +          Rules Flds Menu
```

In this report, the generated NATURAL display program was modified to attach a cost value to the amounts of CPU time and Adabas time used, and to the number of Adabas calls and I/Os performed by each user.

By issuing the VW command, the report may be used to examine data that has been stored in the Adabas Review repository.

The following screen shows the type of information collected by the report:

```

11:21:07                                COST ACCOUNTING EXAMPLE                                2003-07-07
                                09:54:08 1999-08-09 Thru 11:21:07 1999-08-09                                LOCL=00009

```

Job	TPUserid	Num. of Commands	Total IOs	Total Cmd-Resp	Total ADA-Dur
ALSCOMP		151	210	1.1202	5.152688
*****	SUB-T==>	151	210	1.1202	5.152688
COMPLETE		12	6	0.0702	0.251056
	USER1	652	318	1.3057	6.523424
	USER2	186	57	0.2409	0.903504
	USER3	2775	1241	5.5287	26.014992
	USER4	219	97	0.3831	2.337776
	USER5	831	271	1.2486	7.082896
	USER6	147	169	0.4203	2.965808
	USER7	129	117	0.4519	2.433072
	USER8	386	136	0.5802	3.022160
	USER9	8030	5573	7.7051	107.307856
	USER10	707	323	1.3217	6.409696

```

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

```

Because the data spans the width of two screens, PF11 is provided to access the screen to the right and the additional columns of data.

```

11:21:07                                COST ACCOUNTING EXAMPLE                                2003-07-07
                                09:54:08 1999-08-09 Thru 11:21:07 1999-08-09                                LOCL=00009

```

Call Cost	IO Cost	Cmd-Resp Cost	ADA Dura Cost	Total Cost
0.15	1.05	0.02	0.05	1.27
0.01	0.03	0.00	0.00	0.04
0.65	1.59	0.02	0.06	2.32
0.18	0.28	0.00	0.00	0.46
2.77	6.20	0.11	0.26	9.34
0.21	0.48	0.00	0.02	0.71



0.83	1.35	0.02	0.07	2.27
0.14	0.84	0.00	0.02	1.00
0.12	0.58	0.00	0.02	0.72
0.38	0.68	0.01	0.03	1.10
8.03	27.86	0.15	1.07	37.11
0.70	1.61	0.02	0.06	2.39

Command: \_\_\_\_\_

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

From the above screen, PF10 enables you to scroll the screen back to the left.

Additionally, the displayed resource consumption data may be downloaded to a personal computer by using the DL command. To use this feature, the Software AG product Entire Connection must be installed.

Refer to the section *Downloading Report Output in Managing Report Output*.

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## 3 Processing Data in Batch Mode

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Cost accounting values can be defined for batch command log processing by using the COST batch parameter statement.

The member REVCOST, shown below, is a sample report for cost accounting that uses the COST statement. REVCOST is located in the Adabas Review source dataset.

```
*
* This sample report allocates a cost value to three summary
* fields based on the JOBNAME and Adabas user's TPUSERID.
* In this example, each I/O is assigned a cost of $0.02,
* each command response second is valued at $0.25 and each second of
* Adabas duration costs $0.10.
*
REPORT TYPE=SUMMARY,
      TITLE='COST ACCOUNTING EXAMPLE',
      PROGRAM=SR-00028,
      RESTART=Y,
      MAXSTORE=8
DISPLAY JOBNAME,TPUSERID
SUM      IOS,CMDRESP,ADADURA
COST     IOS*0.02,CMDRESP*0.25,ADADURA*0.10
*
```

Refer to section *Using Batch Facilities* for additional information about Adabas Review batch processor parameter statements.

A sample of the data produced by the batch report is shown on the next chapter.



# 4 Review Command Response Time Calculation

Review command response time calculation is based on the following information.

Adabas Review stores in the command table the minimum Adabas duration for each command type returning a zero response code.

The command table is updated whenever a lower duration value is encountered.

```
COST ACCOUNTING EXAMPLE
REVIEW PERIOD

JOB-NAME      USER  COUNT / PCT      SUM      SUM      SUM      COST      COST      COST      $TOT
              / O      CHDR (SEC)  DUR (SEC)  I/O      CHDR (SEC)  DUR (SEC)  I/O      CHDR (SEC)  DUR (SEC)

COMPLETE      2      .1      7      .1376      .137600      $.14      $.034400      $.01376000      $.18816000
COMPLETE      USER1  722  33.2      409      3.5180      8.079392      $8.18      $.879500      $.80793920      $9.86743920
COMPLETE      USER2  157  7.2      78      .8346      2.137440      $1.56      $.208650      $.21374400      $1.98239400
COMPLETE      USER3  21   1.0      33      .3888      .635520      $.66      $.097200      $.06355200      $.82075200
COMPLETE      USER4  264  12.1      137      .7594      2.910016      $2.74      $.189850      $.29100160      $3.22085160
COMPLETE      ***** 1,166 53.7      664      5.6384      13.899968      $13.28      $1.409600      $1.38999680      $16.07959680

SARHEBAT      1,007 46.3      298      1.7240      6.526384      $5.96      $.431000      $.65263840      $7.04363840
SARHEBAT      ***** 1,007 46.3      298      1.7240      6.526384      $5.96      $.431000      $.65263840      $7.04363840

*****      ***** 2,173 100.0      962      7.3624      20.426352      $19.24      $1.840600      $2.04263520      $23.12323520

COST ACCOUNTING EXAMPLE
REVIEW PERIOD:      1995-04-16 20 : 29 : 24 1995-04-16 20 : 33 : 20
LOG RECORDS:      2173
LOG RECORDS SELECTED: 2173
LOG RECORDS SELECTED: 2173
```



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## **C**

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