Adabas Review

Cost Accounting Example

Version 4.4.1

June 2008

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

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

Table of Contents

1 Cost Accounting Example

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:

Viewing Data Online
Processing Data in Batch Mode
Review Command Response Time Calculation

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     _     _     _     _     _______  |
|  _________    __     _     _     _     _     _     _______  |
|  _________    __     _     _     _     _     _     _______  |
|  _________    __     _     _     _     _     _     _______  |
|  _________    __     _     _     _     _     _     _______  |
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 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

                     Num. of       Total         Total          Total
  Job    TPUserid    Commands       IOs         Cmd-Resp       ADA-Dur
-------- -------- ------------ ------------ -------------- --------------

ALSCCOMP                  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                  Cmd-Resp    ADA Dura      Total
   Cost       IO Cost      Cost        Cost        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*.

3 Processing Data in Batch Mode

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 data set.

```
*
* 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.

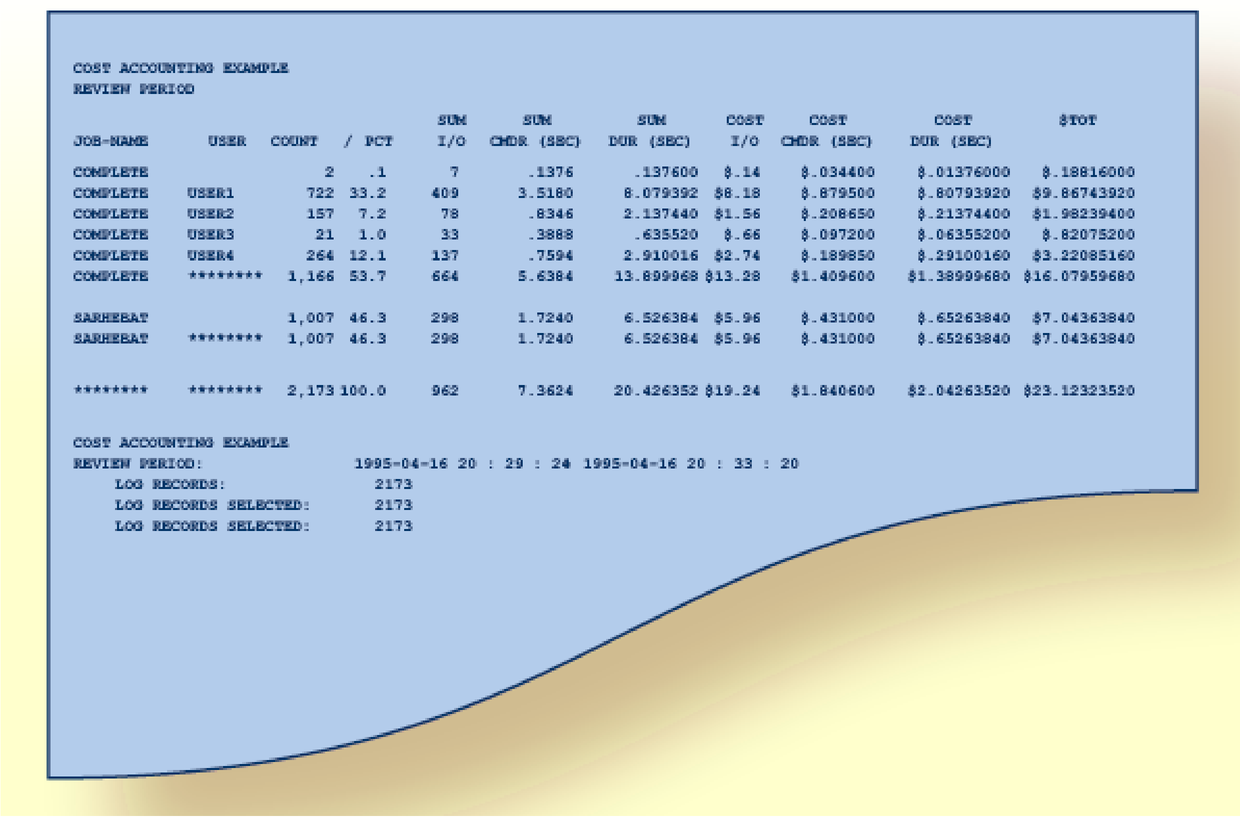
A sample of the data produced by the batch report is shown on the next chapter.

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