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.

This chapter describes the Adabas Review Cost Accounting Example.

- Viewing Data Online

- Processing Data in Batch Mode

- Adabas Review Command Response Time Calculation

Viewing Data Online

A sample cost accounting report "Cost Accounting Example" is supplied with Adabas 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:

```
 21:15:18              A D A B A S  -  R E V I E W             2009-06-18
                            Edit Report                          HUB=15690
      Detail/Summary: S
      Report Name: COST ACCOUNTING EXAMPLE_____      DBID to Monitor: _____


      +----------------------------------------------------------------+
      !  Field         Order   Sum   Min   Max   Avg   Pct   Rate   Round  !
      !----------------------------------------------------------------!
      ! CQJOB___       _10     _     _     _     _     _     _    _____  !
      ! TPUSERID       _20     _     _     _     _     _     _    _____  !
      ! IOS_____       ___     X     _     _     _     _     _    _____  !
      ! COMMANDS       ___     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:

```
 21:15:59                   COST ACCOUNTING EXAMPLE                  2009-06-18
                  20:15:31 2009-06-18 Thru 21:15:17 2009-06-18        HUB=15690
                                                                    Page:    1
                      Total        Total         Total         Total
    CQ-Job  TPUserid Num-of-IOs    Commands      Cmd-Resp      ADA-Dur
   -------- -------- ------------- ------------ ------------- ----------------

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

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

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

For more information, read *Downloading Report Output*.

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
*
```

For additional information about Adabas Review batch processor parameter statements, read *Using Batch Facilities*.

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

Adabas Review Command Response Time Calculation

The Adabas 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.