

# 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      -      -      -      -     -     -      !
! _____   -      -      -      -      -      -     -     -      !
! _____   -      -      -      -      -      -     -     -      !
! _____   -      -      -      -      -      -     -     -      !
! _____   -      -      -      -      -      -     -     -      !
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
                        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:

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	
CQ-Job	TPUserid	Total Num-of-IOs	Total Commands	Total Cmd-Resp	Total 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.