

# KOMAND DAS

## Data Center Accounting System

The **KOMAND Data Center Accounting System (DAS)** is a job cost accounting and usage reporting system for MVS. It is a robust solution for data center, single and multiple host resource accounting and cost management that provides workload, equipment utilization, and job charging information at levels from the individual job/step through a summarization for the entire enterprise.

DAS accounts for MVS batch, TSO, and started tasks. It allows accounting information to be extracted from the jobname, accounting, or programmer name fields on the job card (or pseudo job card), or through a user exit table look-up. Account numbers may also be assigned to started tasks based on the jobname field.

DAS computes the cost of a job in batch mode by using collected SMF records or in "real time" (On-line Costing) as the job is running using standard operating system exits. If the cost is to be computed in "real time", the utilization and costing statistics may be displayed on the batch SYSOUT or on a TSO terminal at logoff time. (shown below)

```
READY
logoff

          KOMAND ONLINE COSTING
QUANTITY RESOURCE      UNIT      ESTIMATED
MEASURED DESCRIPTION      RATE($.<.) COST($.<.)
-----
38150    3390 EXCPS           .05/1000      1.91
.0321721 PROCESSOR HOURS      4,000.00/HOUR 128.69
.0067210 BLOCK CHANNEL HOURS 215.00/HOUR   1.45
2.99253  TP OCCUPANCY HOURS   1.00/HOUR     2.99

MULTIPLICATION FACTOR      1.00 *      135.04
TABLE USED: KOMTBL01  VERSION:V410

TOTAL ESTIMATED SESSION COST      135.04
```

Real time cost assignment also allows the writing of fully costed records to the SMF data sets with the advantage of reduced processing time at month-end billing.

It is also possible to update budget information in a VSAM Master File to allow for on-line interrogation from the KOMAND Financial Management System (FMS). This allows the end-users to view their budget vs. actuals at any time during the billing cycle. The statistics presented would be as current as the last batch job or TSO session run. On-line Costing and Budget Management may be implemented for the entire community or for selected users.

DAS allows the system administrator to re-cost data from a single item to implementing an entirely new charging algorithm using the billing file rather than re-processing the raw SMF.

The resources and rates for charging are controlled by the DAS Factor Table. An unlimited number of alternate charging algorithms (Factor Tables) are supported by DAS. Each individual Factor Table allows charging for over 90 separate resources, such as CPU time, tape and disk I/O, print lines or pages, etc.. Some other costing options include:

- Shift accounting (weekdays, weekends and holidays)
- Proprietary software charging
- Print not associated with a specific job
- Priority accounting

All DAS functions; execution of batch jobs, and maintenance of costing tables may be controlled through the KOMAND (ISPF based) menu system/Graphical User Interface. An output file containing job costs and utilization may be input to KOMAND/FMS where it can be merged with other enterprise charges to produce consolidated invoices and other financial reports.