

DATA SHEET

RAV (BS2000/OSD)

Version 5.1

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System Resource Accounting for Data Centers

RAV is a system for system-resource accounting on a user-specific basis. RAV uses the type of service to generate accounting records for users of the resources offered by the BS2000 operating system, VM2000, the SESAM database system and UTM and file transfer.

The accounting data registered and priced for each task includes the following: CPU time in milliseconds, CPU time standardized with RPF (Relative Performance Factor) in milliseconds, job runtime, number of jobs, number of spoolout lines, aggregate disk space used. As an alternative to the conventional units of consumption, service units can be used for accounting.

Functional Description

RAV also registers and charges the space per user ID occupied on private and public magnetic disk volumes. This resource usage is charged in accordance with definable configuration or user tariffs.

Supplementary data recorded manually (e.g. block times, system support, power, materials) and accounting data from a non-FTS operating system can be imported via inhouse interfaces.

RAV generates several lists, including accounting lists for individual and aggregate service usage and statistical logs for processes and sessions.

Release Units

RAV is made up of modules that can be combined; the RAV-BAS module, however, is mandatory for any combination.

The RAV modules offer the following functions:

RAV-BAS

- administers the customer master data and charge rates,
- defines charge rates extending up to 7 places behind the decimal point,
- feeds in corrections,
- creates advice notices, statistics on the course of tasks and sessions, and listings concerning individual processing steps.

RAV-BS2

- registered by the operating system BS2000 (via the accounting system),
- evaluates accounting data for VM2000 operation (CPU time used, runtime, storage space occupied in main memory, number of devices in use per guest system),
- charges SESAM users on an originator-related basis,
- calculates the number of PAM pages (per user ID) occupied in BS2000 on public and private disks,
- evaluates accounting data for HSMS operations.

RAV-UTM

The RAV UTM module supports application-specific accounting of transaction services per user. The average consumption of resources for each transaction is determined in a calculation phase, the edited result being an integral part of pricing.

RAV-FT

The RAV-FT module permits file transfer specific accounting. User-related analysis of the number of transfer jobs, disk accesses and bytes transmitted to or received from the network is possible.

Accounting can be effected separately for local and remote file transfer jobs, i.e. a distinction is made between resources used by FT jobs initiated in the system to be evaluated and resources used by FT jobs started in a remote system.

Program Description

The accounting operation is based on the following data: the resource usage data collected by the operating system BS2000 (via the accounting system) and the data collected manually.

In a preprocessing run, RAV selects from the resource data those fields relevant to accounting and stores them, in this compressed form, in so called "LNS" files (LNS = "Leistungsnormsatz", i.e. standard resource record). The LNS and master files form the basis for the accounting run, during which the advice notices required for billing are created.

As part of the preprocessing run, a compact file and a detailed task statistics list regarding task execution are created, among other things. This is followed immediately by the function-block "Auswerten" (report), which is used to create overviews and statistics.

The "system customization" function enables the performance capacity of RAV to be tailored to the needs of the individual computer center. Charge rates, configuration and customer master data are administered by RAV in the "master file".

RAV is operated via a guided dialog.

User prompting and the output of listings can be performed in English. Easy adaptability to other languages is guaranteed.

Technical data

Hardware
BS2000/OSD business server
Software
BS2000/OSD-BC V6.0 or higher
EDT V16.6 or higher, SORT V7.8 or higher
PERCON V2.8 or higher, JV V14.0 or higher (optionally)
Software required for accounting
openFT (BS2000) V9.0 or higher
openUTM (BS2000) V5.2 or higher
VM2000 V8.0 or higher
SESEAM/SQL-Server V3.1 or higher
HSMS (BS2000) V7.0 or higher

Operating mode

Timesharing mode
Batch mode for controlling job handling

Implementation language

COBOL, Assembler, SPL

User interface

English/German

Installation

By the user as per the Release Notice.

Documentation

RAV User Guide
Readme-File

Training

See course offer at:
<http://www.ts.fujitsu.com/training>

Conditions

This software product can be purchased by the customer against a single payment or leased in accordance with the conditions for the use of software products.

Ordering and delivery

This software product may be obtained from your local Fujitsu Technology Solutions regional office.

Information about environmental care, policies, programs and our Environmental Guideline FSC03230:

ts.fujitsu.com/aboutus

Take back and Recycling information: ts.fujitsu.com/recycling
