SW 8101
BOSS Package

RESUME

Efficient resource utilization for medium-scale computers is offered by the BOSS Package, which combines fast, reliable execution of batch programs with concurrent service for up to 50 terminal users. Some of the features of this package are:

- Multiuser batch operating system with facilities for on-line jobs.

- Well-suited to editing and program development.

- Extensive support of device handling.

- Dynamic priority scheduling strategy based on the resource requirements of the jobs being run.

- User catalog enhances security and speeds the creation of job processes.

- Accounting system records the resources consumed by each job.

- BOSS can be tailored to fit the installation.

DESCRIPTION

The BOSS Package comprises the operating system BOSS2.

BOSS executes a batch of programs, while allowing terminal users to edit files and prepare jobs concurrently. Jobs can be submitted for execution by the operator on cards, paper tape, or backing storage areas as well as by the user himself from the terminal or a backing-storage area.

BOSS swaps up to 21 processes, or logical computers, each containing a job, between backing storage and two job execution areas in the primary store. The two jobs being executed at any moment are those with the highest priority. This is determined by a scheduling strategy which ensures that small jobs requiring little computing time and few other resources, e.g. program compilations, are executed quickly, while production runs and other large jobs are guaranteed execution, but must expect longer turn-around times.

Jobs can also be executed in an on-line mode, in which the strategy favors the interactive job.

BOSS provides support for the handling of a wide range of devices in the form of input/output spooling, user commands, and operator messages. Thus terminal output, for example, is spooled on backing storage and transferred to the terminal at a speed set by the latter. The terminal user can also direct his output to a printer or some other device.

SOFTWARE PREREQUISITES
SW8001 Basic System Package (datasheet RCSL 42-i 1275).
SW8010 System Utility Package (datasheet RCSL 42-i 1276).
SW8500 Algol Package (datasheet RCSL 42-i 1293).
SW8600 Assembler Package (datasheet RCSL 42-i 1295).