



# RC 8000 Model 15

- A GENERAL-PURPOSE MEDIUM-SCALE COMPUTER SYSTEM
- MULTIPROGRAMMABLE, VIRTUAL STORAGE, INTERACTIVE, ONLINE & BATCH PROCESSING

Planning, directing and controlling are key management concepts in any organisation. Whether the field of activities is in the business or public sectors. A large range and variety of actions - some daily, other long-term - all go towards providing the means to coordinate operating and decision-making processes. To accomplish those tasks a computer is a speedy and effective partner.

The RC 8000 family of computers have been designed specifically to make it possible in practically any situation to choose a computer to actually fulfill those needs.

The newly announced RC 8000 model 15 is a general-purpose medium-scale computer offering a data processing capacity that can handle a typical work pattern of up to 16 terminals, a main memory of 64 K words and a wide spectrum of peripheral units with a choice in variety as well as numbers including disc storage of up to 1024 megabytes. RC's advanced virtual-storage technique is of special significance with full integration of its fast disc storage in system operation making the RC 8000 model 15 a mainframe computer beyond the ordinary.

The RC 8000 model 15 is a multiprogrammable computer system capable of running several programs simultaneously. The multiprogramming facility and the virtual-storage technique achieve an unrestricted scope in combinations of and simultaneity in task handling.



*A typical basic configuration of an RC 8000 model 15 computer*

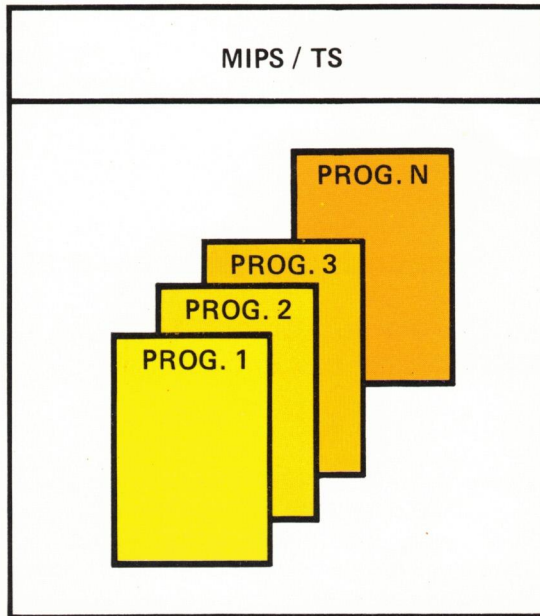




The execution of programs is controlled by RC's MIPS/TS which is an on-line interactive operating system. MIPS/TS can perform many programs in parallel interactively as well as in batch mode. In the development of the MIPS/TS operating system RC has placed importance on priority scheduling. The time-critical applications, that is to say terminal transactions, get higher priorities whilst lesser time-critical batch jobs are executed in between. In this way the user is assured of the best possible service while making optimum utilization of his computer.

MIPS/TS has a built-in spooling function which prevents the execution of programs from being impeded by slower acting peripheral units such as printers and data terminals. In practice the spooling facility works so that the users' programs can write their outputs to the disc storage whereafter MIPS/TS takes over control of print-outs and terminal responses. Thus users' programs continue to do other jobs while earlier results are being sent out.

The software can be either RC application programs or those developed by the user. Among the programming languages and compilers available are Algol, Fortran and Basic/Comal. Additionally, Utility Programs are available for convenient and quick handling of procedures such as editing, copying and sorting data - everyday jobs in data processing.



As an example, the user of an RC 8000 model 15 can simultaneously run programs to process financial control, production and stock control and payroll systems together with programs which he may develop to solve his own special tasks and thus support his organisation with a specifically integrated control structure.

Even with expanding volumes of data to be processed the RC 8000 model 15 will prove to be an untiring partner. However, should the activities outgrow the power and capacity of an RC 8000 model 15 there is the reassurance of full compatibility with the more powerful models of the RC 8000 computer family.

Similar to the other models of the RC 8000 computer family the Model 15 is built around a databus with auto-intelligent control units for disc storage and peripherals. A structure providing a unified, well-proven and reliable operating condition in every step of the extension pattern.

RC 8000 model 15 resume:

- Central unit: 24-bit word, multiprogrammable, primary operating system MIPS/TS
- Main memory: 64 K words, semi-conductor technology, 6-bit error-correction code
- Disc storage: Up to 1024 M bytes, virtual storage, spooling
- Peripheral units: Up to 16 terminals; line printers; flexible discs; etc. RC NET connectivity.

Guidewise installation and running conditions in brief: Power supply 220 V/50 Hz, power consumption from ca. 1000 W (depending on the number of peripherals); environment 10 - 35 °C (50 - 95 °F), 20 - 80% relative humidity, avoiding dust and smoke; cabinet dimensions (H x W x D) ca. 140 cm x 60 cm x 80 cm (55 ins x 24 ins x 32 ins), weight ca. 150 - 200 kg (330 - 440 lbs).

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