

## Data General Nova Series

### New Product Announcement

**RJE80 AND HASP II EMULATION SOFTWARE EXTENSIONS:** Data General has extended RJE80 emulation capabilities to the diskette-based Disk Operating System (DOS) in Nova computer configurations, and added HASP II terminal emulation. The new capabilities enable Nova systems to communicate with IBM 360/370 systems or with other Data General computer systems, including the recently announced CS/40 systems with RJE80 capability. The software emulates the three most common IBM remote batch systems. RJE80 emulates both IBM 2780 and 3780 RJE terminals, and HASP II emulates an IBM HASP RJE Workstation.

RJE80 supports four types of multi-dropped and point-to-point communications under DOS, and provides data transfer capabilities. A full description of RJE80 can be found on page M11-304-110.

HASP II supports point-to-point communications between a HASP II-equipped Nova and an IBM 360/370 compatible system, or between two HASP II-equipped Data General computer systems. The program operates under RTOS, RDOS, and DOS in Nova configurations. Its multi-leaving capability can include up to seven input and seven output data streams. Efficiency of data transmission is achieved by interleaving and data compression. The emulator supports both disk and tape storage.

Both the RJE80 and HASP II emulators check the validity of all data processed by the terminal, using a block check character with polynomial cyclic redundancy checking (CRC) performed either in software or hardware.

The initial software license fee with support services for RJE80 is \$1,500 for RDOS, RTOS, or DOS environments. Subsequent licenses without support services are available for \$1,000. The HASP II software costs \$1,750 for initial license and support services for RDOS, RTOS, and DOS systems. Subsequent licenses without support services are available for \$1,250.

Support services that are included with initial RJE80 and HASP II licenses are one year of the Software Subscription Service, a copy of the software, and complete documentation.

Standard Data General end-user and OEM quantity discounts apply only to subsequent licenses; no discounts are available for the initial licenses. Deliveries of all the RJE80 and HASP II software are 90 days after receipt of an order.

**FIXED-HEAD DG/DISK SUBSYSTEMS:** Two new disk subsystems that can be used with Data General's RDOS multifunction operating system are now available for Nova computers in one-megabyte and two-megabyte capacities. The drives are available as the one-megabyte Model 6063 and the two-megabyte Model 6064. Up to four drives per subsystem can be configured in any combination of the two sizes for a total capacity of up to eight megabytes.

The disks use head-per-track technology and transfer data at the rate of 910,000 bytes per second. Data is recorded at a maximum density of 5700 bits per inch with an average access time of 10.12 milliseconds.

The subsystem receives commands via the data channel instead of programmed I/O control, enabling multiple data sectors to be read using a queuing technique in the controller. Data General refers to this as "data chaining," a technique that is supported by the company's multi-terminal and multiprogramming software.

A 32-bit error checking code (ECC) written in each disk sector permits error detection in hardware and software correction of all single-burst errors up to 11 bits long in a 512-byte sector.

Data General plans to market the new drives to users who require high-speed data access or data acquisition rates. They can also be used as swapping devices in time-sharing environments.

A one-megabyte subsystem (Model 6063) including the disk drive, controller, and necessary cabling costs \$9,900. A subsystem that includes a two-megabyte drive (Model 6064), controller, and cabling costs \$13,900. Both are 8¾ inch-high rack-mounted units. Deliveries begin in December 1977 and are 90 days ARO.

**DG/L FOR RDOS AND RTOS:** Data General has announced DG/L, an ALGOL-like programming language to run on Nova computers under the firm's RDOS and RTOS operating systems.



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- According to Data General, the new language is designed for systems-level and structured programming in a multi-tasking run-time environment, and is suited for complex utility development without the use of assembly language. DG/L is intended for sophisticated users who can modify the software; as such, it is being aimed at systems houses, in-house data processing service groups, and university computing science labs.

The one-time license fee for the language is \$5,000, including 40 hours of training and support. There is no warranty on the software, however, which is provided on an "as is" basis. For an extra \$150 users can receive updates, although Data General is not planning to establish a formal update schedule.□