

Honeywell Series 60

New Product Announcement

Early in 1977, Honeywell introduced an impressive array of new products that touch nearly every model line it currently offers. The new products include a new CPU and the addition of the Universal TOTAL data base management system for the Level 62 line; three new Level 64 models; the high-powered Model 66/85 processor; the Datanet 6670 front-end processor, based on a Level 6 minicomputer; and the GCOS Data Management-IV system.

LEVEL 62: The new Level 62 CPU is intended to meet increased competition from IBM's latest enhancements to both the low and high ends of the System/3 product line. It replaces the CPU's previously used in both the Level 62/40 and 62/60 systems. The new processor retains the same basic architecture as the older models and has the same instruction set. The differences between them are in processing speed and in expansion capabilities. The new CPU is available in four speeds, the slowest being about 80 percent as fast as the existing 62/40 CPU. The two middle-range speeds provide performance levels similar to those of the 62/40 and 62/60, respectively. The fastest version is said to be about 75 percent faster than the 62/40 and about 30 percent faster than the 62/60 processor.

Memory expansion has been made much more flexible. Level 62 users can now start with systems as small as 48K bytes and expand as far as 224K bytes, in 4K-byte increments. Previously, the two Level 62 systems were sold with a minimum of 64K bytes of main memory, and expansion was limited to 128K bytes, in 8K-byte increments.

System expandability was also enhanced by the introduction of three new peripherals for the Level 62 and other small-scale Honeywell systems. The new units include a 120-position, 100- to 300-lpm line printer; a 20.1-megabyte disk drive, and an IBM 3740-compatible floppy disk subsystem with single- and dual-drive capability.

New Level 62 software includes Universal TOTAL Level 2, which offers extended data base capabilities beyond those of the TOTAL data base management system. Also offered are a remote text editor and application packages for manufacturing, distribution, and financial management.

LEVEL 64: Honeywell's three new Level 64 systems expand that level of the Series 60 family to five upward-compatible systems. Each CPU includes the same basic subsystems, regardless of model: a memory subsystem, one integrated mass storage processor; one integrated low-speed peripheral processor; and three integrated channels—one each for the mass storage processor and unit record processor, and one for an optional magnetic tape processor.

In addition to the new models, new enhancements for the existing Level 64 models were announced. The changes include a faster CPU for the 64/40, increased memory for both the 64/20 and 64/40, additional I/O channels and peripherals processors, and increased communications line capacity.

The new model 64/30 offers 30 to 40 percent higher performance than the 64/20, and has a memory capacity of 64K to 384K bytes. The system can support up to eight mass storage units, one magnetic tape subsystem with up to eight transports, up to five low-speed peripherals, and up to 14 communications lines. Memory is expandable in 32K or 64K-byte increments.

The new Model 64/50 is expected to provide performance improvements of 30 to 40 percent over the 64/40. It has a memory range of 96K to 512K bytes of 860/980-nanosecond memory, and can support up to 16 mass storage units on two 8-unit controllers; up to 16 tape units; also on two 8-unit controllers; up to eight low-speed peripherals; and up to 28 communications lines. Main memory is expandable in 32K or 64K-byte increments.

The new Model 64/60 offers another performance increase of 20 to 30 percent over the 64/50, or a total performance enhancement of 2½ to 3 times the performance of the entry-level 64/20. The 64/60 has a memory capacity of 192K to 768K bytes of 740/940-nanosecond memory, and can support up to three 8-unit mass storage processors, two 8-unit magnetic tape processors, 8 low-speed peripherals, and three 14-line communications controllers. Main memory is expandable in 64K or 128K-byte increments.

LEVEL 66: The new Honeywell Model 66/85 is expected to compete directly with IBM's 370/158 and smaller 370/168 systems, and multiprocessor versions of the 66/85 are expected to offer greater performance than the larger 370/168's. Compared to the former top-of-the-line model, the 66/80, Honeywell claims throughput rates up to 50 percent greater. This performance increase is