

Honeywell Series 60, Levels 66 and 68**New Product Announcement**

During the past few months, Honeywell has announced important additions to its line of large-scale Distributed Processing Systems (DPS). The new systems are aimed at both long-term Honeywell users and the former Xerox user base. Two new Level 66/DPS systems, both intended for current Honeywell users, are part of the company's direct response to the IBM 4300 Series. These systems, the Model 440 and Model 520, join several other Level 66/DPS systems now being marketed. For Xerox users, Honeywell has added the Level 66/DPS/B3, a system designed to ease their transition to Honeywell equipment.

LEVEL 66/DPS SYSTEMS FOR HONEYWELL USERS: Honeywell's response to the IBM 4300 Series totaled four new DPS computers, two in its medium-scale Level 64 product line and two in the large-scale Level 66 line. All four models support the Honeywell Distributed Systems Environment (DSE) and can operate as either hosts or co-hosts.

- The new Level 66 DPS-440 and DPS-520 models extend Honeywell's large-scale Level 66/DPS line downward to the IBM 4341 level. The DPS-440 has more than twice the power of the previous entry-level processor in the Level 66 line, the Model 66/05, and reportedly offers about 75 percent of the performance of the IBM 4341. The Level 66 DPS-520 is said to deliver 1.5 times the power of the DPS-440, or about 12 percent more power than the 4331.

The Level 66 DPS-440 and DPS-520 central systems have the same basic configuration: one central processing unit (CPU), one system control unit (SCU), and one I/O multiplexer (IOM) with 18 channel function slots. All of the Level 66/DPS communications and peripheral subsystems are supported, and a maximum of two Datanet front-end processors and two system consoles can be attached. The DPS-440 is available with one or two megabytes of MOS main memory, and the DPS-520 can have one, two, or four megabytes.

LEVEL 66/DPS SYSTEMS FOR XEROX USERS: A third Level 66/DPS system designed for the Xerox user base has been introduced. Last year Honeywell announced the Level 66/DPS/C3 and /C5 systems for up to 120 and 200 users, respectively. The new processor, the Level 66/DPS/B3, is designed to accommodate up to 80 users. The B3, C3, and C5 hardware is similar to that of the Level 66/DPS processors marketed to Honeywell users. The C3 provides about 60 percent greater performance than the B3, while the C5 provides about the same performance increase over the C3. Honeywell has not released any performance comparisons between the Xerox and Honeywell versions of the Level 66/DPS.

The Level 66/DPS/B3 is an upgrade for the Sigma 6, 7, and 560 Series machines and runs under an upgrade to the CP-5 operating system, called CP-6. The Level 66/DPS/B3 will be available during the first quarter of 1980, while CP-6 will be available in December 1979 for use with the Level 66/DPS/C3 and C5.

Hardware specifications for the Level 66/DPS/B3, C3, and C5 are essentially the same except for the maximum number of lines available in the communications processor. The Level 66/DPS/B3, C3, and C5 each include a CPU, system control unit, I/O multiplexer, and communications processor. The Level 66/DPS/C5 has an additional system control unit and communications processor.

Specifications for the CPU include: internal code—ASCII; registers—8 index, 8 address, 8 descriptor, 1 instruction segment, and 2 general-purpose; cache memory—100 nanoseconds; instruction set—197 operation codes; clock system—4 standard; address resolution—1 bit to 1 double word; weight—1800 lbs.; and dimensions—68 inches high, 62 inches wide, and 29.3 inches deep. Specifications for the system control unit (SCU) include: input/output multiplexer (IOM) ports allowed per SCU—8; words transferred per memory cycle—4; control unit battery power backup—in excess of two minutes; memory word size—four 9-bit bytes; memory accessed per cycle—2 double words (16 bytes); memory cycle time—750 nanoseconds; memory interleaving—yes; weight—1665 lbs.; and dimensions—68 inches high, 62 inches wide, and 29.3 inches deep. IOM specifications include: transfer rate—4 megabytes per IOM; channels supported—4; maximum number of peripheral subsystems multiplexed—16 per IOM; weight—1425 lbs.; and dimensions—68 inches high, 62 inches wide, and 29.3 inches deep. Specifications for the communications processor include: number of asynchronous lines—80 in the Level 66/DPS/B3, 120 in the Level 66/DPS/C3, and 120 in the Level 66/DPS/C5; maximum number of processors configurable—4; line protocols supported—22K to 72K bps synchronous and 110 to 19.2K bps asynchronous; weight—900 lbs.; and dimensions—61.5 inches high, 27 inches wide, and 33 inches deep.