

Honeywell Bull

HONEYWELL BULL PRODUCT FAMILY AT A GLANCE

Enterprise Level Systems

DPS 9000: The newest family of Honeywell Bull's large-scale mainframe, the DPS 9000 system is the fastest and most powerful on-line, general-purpose computer available in the world today. It is compatible with the DPS 90, DPS 8, DPS 88 and the DPS 8000. These systems are based on the GCOS 8 operating system. In on-line transaction processing, a key strength, the system can handle more than 1,000 transactions per second when processing one of the industry's accepted debit/credit benchmark applications. The DPS 9000 system's technology includes vector processor in each Central Processing Unit for high-speed numerically intensive applications, a system-level cache architecture that speeds user's access to the most recently used data, and main memory cache. Central System Process start at \$6.15M which include the chilled water unit, channel connectors for disk tape and front-ends plus the central processing system.

DPS 90: This mainframe computer family includes single-, dual-, and quad-processor models, plus a fully duplicated component version. In addition to being one of the fastest general-purpose computers on the market, the DPS 90 includes an integrated array processor in each Central Processing Unit for numerically intensive applications. Prices range from \$3.55 million to \$7.6 million.

More than 200 Honeywell Bull DPS 90 computers have been installed worldwide. Groupe Bull of France also markets the DPS 90 in its sales areas.

DPS 8000: The DPS 8000 contains single-, dual-, triple- and quad-processor models, including fully duplicated fault-tolerant systems. These computers will eventually replace the DPS 8 which was introduced in October 1979.

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Technological features of the DPS 8000 include proprietary very-large-scale-integration (VLSI), high-density gate-array circuits, 256-kilobyte (KB) cache memory and a multiple pipeline architecture. The systems excel at interactive processing composed of a mix of on-line and traditional batch jobs. The quad-processor Model 84 can process approximately 220 transactions per second. The DPS 8000 also is positioned as the hardware platform for leading-edge relational software technologies.

Medium-Scale Systems

DPS 7000: A follow-on to the DPS 7 line, the DPS 7000 family comprises eight models developed to serve as central computing systems in medium-sized businesses or as distributed transactional systems for larger companies. Introduced in April 1987 and expanded in February and October 1988, these 32-bit mainframes have been designed for high-performance transaction processing and support of vertical markets such as manufacturing. They provide excellent price/performance and can handle between 11,000 and 122,000 transactions per hour at prices beginning at \$80,000.

The DPS 7000 range incorporates state-of-the-art technological advances in a proven architecture, including new Honeywell Bull VLSI complementary metal oxide semiconductor (CMOS) chip design. The basic architecture remains the proven 32-bit, virtual-memory design, supported by the GCOS 7 operating system. All models are fully compatible with one another, and with the DPS 7 range, protecting the software investment of current DPS 7 users.

The most recent version of GCOS 7 also provides an extensive range of tools and utilities and network and database-management capabilities. These systems are manufactured in France by Groupe Bull.

Small-Scale Systems

PC Family: The Honeywell Bull PC family comprises three series of 16-bit and 32-bit personal computers, the XP, AP-X and SP. All models run MS-DOS¹ 3.2. The SP Series is based on the 80386 chip, while the AP-X and XP are configured on the 80286 and 8088-2, respectively. Both the AP-X and SP feature Honeywell Bull's MicroProcessor Exchange technology, which allows users to upgrade the microprocessor easily as their needs change. Various models are available in each series, providing a choice of storage devices and memory, as well as a variety of keyboards, monitors, printers and communications facilities. Prices begin at \$2,165.

XPS-100: A family of three multi-user systems, X-15, X-22 and X-42, the XPS-100 Series (known as X-Superteam in Italy, Mexico and Australia) is based on the popular UNIX² operating system. The 32-bit architecture will support up to 96 users and offers processing speeds from 1.7 to 5.5 million instructions per second (MIPS). Non-proprietary, industry-standard design incorporating Motorola 68020 microprocessors and UNIX System V Release 3 allows XPS-100 to take advantage of the numerous applications developed for the UNIX world.

First introduced in September 1986 and expanded in May 1988, the series is targeted primarily for Honeywell Bull's indirect sales channels and selected commercial markets. Prices begin at approximately \$12,000, and a wide selection of peripherals is available for all three systems.

DPS 4: The successor to Honeywell Bull's Level 62, the DPS 4 is a 32-bit system for small to medium-sized business applications, supporting up to 8 MB of main memory and 96 communications lines. Sometimes referred to as a "small business mainframe," DPS 4s have seen primary use in transaction- and batch-processing. To date, more than 5,000 systems have been installed worldwide.

Enhancements include a recent version of the GCOS 4 operating system, GCOS 4/OS 3, that includes an interactive relational database system and improved transactional throughput. DPS 4 performance ranges from 100 to 486 KOPS (Thousands of Operations Per Second). Prices begin at approximately \$70,000.

DPS 6: Based on 16- and 32-bit architectures running the GCOS 6 MOD 400 operating system, this family of mini and superminicomputers provides key strengths in departmental-, transaction- and distributed-data processing, including office automation. DPS 6s are also frequently used as front-end processors for Honeywell Bull's large-scale systems.

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First introduced in 1980, the DPS 6 line includes 11 systems supporting from two to 120 users and offers a range of processing power from .2 to 3 MIPS in both stand-alone and network environments. More than 40,000 systems have been installed worldwide. The GCOS 6 operating system is compatible throughout the family and each system is expandable and/or upgradeable across the full line. Prices begin at approximately \$20,000, and a wide variety of peripherals is available for each model.

DPS 6 PLUS: The DPS 6 PLUS range, introduced in June 1986, is a follow-on to the mid-range DPS 6 systems and provides an ideal platform for Honeywell Bull's Office Network Exchange architecture and other departmental computing applications. Based on VLSI technology, the DPS 6 PLUS range features a 32-bit virtual architecture and superior flexibility for various communications and networking requirements.

Current models support between 4 and 150 users. Performance ranges are available, depending on configuration of from one to four processors and model 200 or 400 series. Basic system configurations begin in price at approximately \$17,000. All models run the HVS 6 PLUS operating system, which is compatible at the application level with the DPS 6 operating system, GCOS 6 MOD 400.

Communications and Networking

Relational Database Management System (Relational DBC):

Relational DBC is an integrated decision support solution that combines advanced hardware, software and firmware and employs an innovative parallel processing architecture built upon low-cost, industry-standard microprocessors. It can manage from two gigabytes to more than one trillion bytes of information at speeds that reduce traditional response time from days or hours to minutes and seconds. The Relational DBC is available for Honeywell Bull's large systems family operating under GCOS 8, including the DPS 8000, the DPS 9000, and the DPS 90 computers.

Distributed Systems Architecture (DSA):

DSA is the communications platform for Honeywell Bull's and Groupe Bull's entire range of computers, from micros and minis to medium and large systems. DSA uses the same original model on which the OSI standards are based, providing users with a smooth transition to OSI as standards continue to evolve. Honeywell Bull local area network (LAN) products, private branch exchange (PBX) interconnections and application software also are supported by the DSA framework.

The DSA installed base encompasses more than 1,500 sites worldwide. DSA products include DATANET network communications processors, network control facilities and SNA gateways.

Application Software

Honeywell Bull directs significant resources to the development and acquisition of software applications running on the company's small, medium and large computer systems. The company offers a variety of solutions, in environments ranging from the office -- where Office Network Exchange PLUS (ONE PLUS) provides an integrated departmental system linking Honeywell Bull and non-Honeywell Bull users -- to the factory, where Honeywell Bull Manufacturing System (HMS) provides support for the total manufacturing process.

Customized software packages also support applications in the fields of science, engineering, financial management, business, education, banking, retailing and the public sector.

Service and Support

Honeywell Bull's Customer Services operation, headquartered in Newton, Mass., provides all hardware and software service for Honeywell Bull's U.S. customers and specific international customers. The division has over 250 field locations providing optional on-site service, and more than a dozen walk-in/mail-in service and support centers.

The Logistics Inventory Data System (LIDS) allows service personnel to access parts at hundreds of stocking locations nationwide, 24 hours a day, seven days a week. Its three Technical Assistance Centers provide on-line remote diagnostic service should hardware or software need attention. A National Response Center, located in Atlanta, accepts toll-free calls 24 hours a day, seven days a week, for requests for remedial maintenance. In addition, the company provides service to more than 50 manufacturers under its TotalCare service program.

1. MS-DOS is a trademark of Microsoft Corp.
2. UNIX is a trademark of AT&T.

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HONEYWELL BULL'S DPS 9000, THE MOST POWERFUL general purpose mainframe computer in the world. Targeted for high-volume, information-intensive usage such as transaction processing and data management, the DPS 9000 is rated at more than 1,000 transactions per second in the industry standard debit/credit benchmark.