

# Burroughs B 4900

## PRODUCT DESCRIPTION

Burroughs Corporation's new 4900 Series includes the Model B 4955, a multi-purpose computer system designed as a growth path for users of the firm's B 2000, B 3000, and B 4000 systems. The B 4955 offers 5 million bytes of main memory, and features pipeline processing, a concept also employed in the B 2910, B 2930 and B 3955. Pipeline processing allows the various steps in a processing task to be performed concurrently rather than one at a time.

The new Model B 4955 is offered in either single or multiple processor configurations. Through a Shared System Processor (SSP), up to four processors can be connected to share common disk data files. Included in the B 4955's design is hardware specifically designed for maintenance routines in each system module. The B 4955 is designed to address the needs of a wide spectrum of businesses, whether they are involved with heavy duty batch processing or high volume transaction data processing. In conjunction with a CP 3680 front-end processor, the B 4955 can operate in on-line data communications networks.

### RELATIONSHIP TO CURRENT PRODUCT LINE:

The B 4955 represents the next step up from Burroughs B 3955. It is the largest in the firm's range of B 2000, B 3000, and B 4000 systems. The central processor of the B 4955 operates up to 1.8 times faster than its predecessor, the B 4800. It also occupies up to 65 percent less floor space and has reduced air conditioning requirements by over 50 percent than the B 4800. The main memory capacity of the B 4955, which is 5 million bytes, surpasses the memory capacities of the B 4800 (0.5 to 1.0 megabytes) and of the B 3955 (2.0 to 4.0 megabytes), and also exceeds the memory capacities of the low-end B 5000 systems which range from 1.5 to 6.2 megabytes in the B 5930 and ▶

**PRODUCT ANNOUNCED:** The 4900 Series consists of one model, the B 4955, a medium-range system providing 5 million bytes of main memory. Compared with its predecessor, the B 4800, the Model 4955 operates up to 1.8 times faster, occupies up to 65 percent less floor space, and reduces air conditioning requirements by 50 percent. It is available in single or multiple processor configurations.

**COMPETITION:** Honeywell DPS 8 Series, IBM 4300 Series, IPL Systems 4400 Series, Magnuson M80 Series, Sperry Univac System 80 and 1100/60.

**DATE ANNOUNCED:** September 28, 1982.

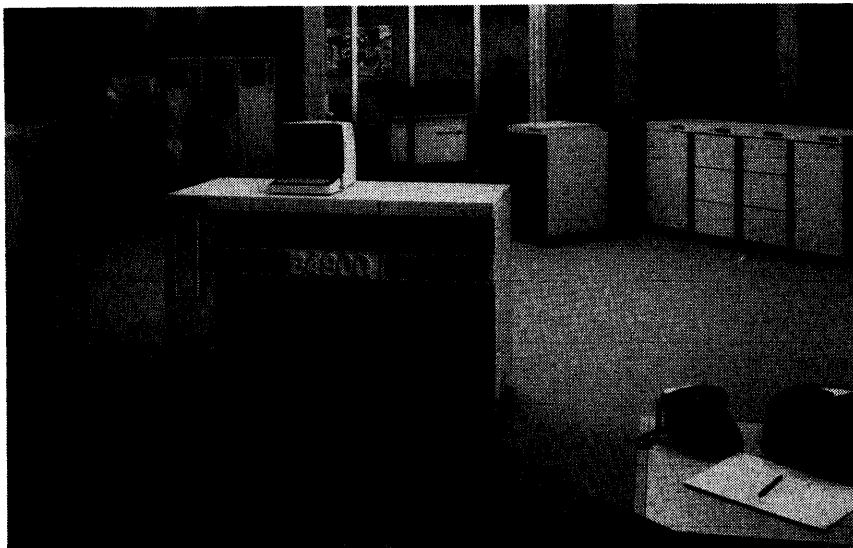
**SCHEDULED DELIVERY:** Deliveries of the Model B 4955 are scheduled to begin in the third quarter of 1983.

## BASIC SPECIFICATIONS

**MANUFACTURER:** Burroughs Corporation, Burroughs Place, Detroit, Michigan 48232. Telephone (313) 972-7000.

**CONFIGURATION:** The B 4900 Series consists of the Model B 4955 which includes a central processor with 5 million bytes of memory. The B 4955 is available with single or multiple processor (up to four) configurations. Multiple systems use the Shared System Processor (SSP) to implement concurrent access to the same disk files by multiple processors. In a multiple system, the sharing of peripherals is achieved via exchanges and/or peripheral switches.

**CENTRAL PROCESSOR:** The central processor contains 5 million bytes of memory and performs up to 1.8 times faster than its predecessor, the B 4800. The architecture, which is based on Burroughs' microprogramming techniques and a series of powerful ▶



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▷ from 3.1 to 6.2 megabytes in the B 5920. In addition, the I/O burst bandpass of the B 4955 provides a 100 percent improvement over the capabilities of the B 4800. Users of the B 2910, B 2930 and the B 3955 can convert to the Model B 4955 with the assurance of total software compatibility.

**COMPETITIVE POSITION:** Designed to service businesses with a wide range of needs, whether heavy duty batch processing or high volume transaction data processing, the B 4900 system fits in between the high-end IBM 4300 Series processors and the low-end 308X Series processors. The Model B 4955 competes with the Honeywell DPS 8 Series, the IPL Systems 4400 Series, the Magnuson M80 Series, and Sperry Univac's System 80 and 1100/60□.

▷ function processors, ensures compatibility with Burroughs' full complement of system and environmental software. The B 4955 employs pipeline processing, a concept that allows a number of tasks to be performed concurrently. These tasks include: instruction pre-fetch, program address and data address calculations; data fetch and manipulation; instruction execution; and independent input/output initiation and transfer.

**INPUT/OUTPUT PROCESSOR:** The I/O processor (IOP) initiates data transfers between the memory and peripheral subsystems independently of the central processor. The IOP is connected to the subsystems by means of Data Link Processors (DLPs), each of which functions as an independent processor specifically programmed for the subsystem that it serves. A minimum of at least one DLP is connected to each subsystem; some subsystems (e.g. magnetic store) can be accessed via multiple DLPs.

A maximum of 64 Data Link Processors can be configured with the Model B 4955. The two Input/Output processors provide the capability for a cumulative bandpass of 16 million bytes per second, depending on the Input/Output configuration and record length.

**DATA COMMUNICATIONS:** When used with a CP 3680 front end processor, the B 4955 can also be used in an on-line data communications network. To accomplish this, the CP 3680 operates and manages the network, eliminating this task from the B 4955 central processor to permit more efficient processing of applications programs.

**ENHANCED MASTER CONTROL PROGRAM:** The MCP IX, a new Master Control Program, has been developed for the B 4955, taking advantage of the B 4955's hardware and microcode to increase total system throughput.

**DIAGNOSTIC FEATURES:** Advanced diagnostic circuitry, firmware, and software have been incorporated into the B 4955. A maintenance processor monitors the status of the processor, memory, Data Link Processors (DLPs), and Input/Output processor. When an interruption of operations occurs, a status message is generated that indicates the cause and designates which procedures are required. Checks on power and air temperature are implemented by automatic environmental monitoring. Additional diagnostic capabilities of the B 4955 include remote dump diagnosis and remote test routines.

**SOFTWARE:** Licensed software includes a new MCP operating system, language compilers, a data base management system, and a wide range of application program products and on-line programming aids.

**PRICING:** The Model B 4955 is offered for purchase and on one-year, three-year, and five-year lease plans. The purchase price for the B 4955, exclusive of maintenance costs, starts at \$780,000. One-year lease prices start at \$32,119 per month.■