

Burroughs L 6000 Series Accounting Computers



The L 6500 model of the L 6000 line features a magnetic record feeder/stacker that feeds records into the system's console for reading and updating and then restacks them automatically. Its use eliminates individual handling of the magnetic-stripe records and has increased throughput by 25 percent or more in Burroughs' benchmarks against the L Series Model 1 line. The L 6500 has 26-inch wide forms handlers and can utilize magnetic memory records in a variety of sizes; it can store up to 352 digits of information on each record.

MANAGEMENT SUMMARY

In May 1974, Burroughs Corporation, the dominant force in the small accounting systems market, announced the release of its L 6000 Series. This new family is a faster, improved-performance version of the company's highly successful L Series Model 1 line of business minicomputers (Report M11-112-101). Improved throughput is achieved by expanding the input/output hardware buffers, incorporating a faster, "all-electronic" keyboard, and implementing a photoelectric program loader that operates at 100 characters per second.

The L 6000 systems are designed to contribute substantial labor savings in the operations of business, commercial, and governmental offices. These systems are typically used in such accounting and management applications as sales and customer accounting, invoicing, payroll and government report preparation, purchase-order preparation, purchase and payment accounting, general ledger, financial statement and management report preparation, cost management, and government accounting.

The Burroughs L 6000 Series is the newest line of accounting minicomputers from the industry leader in this field. Four different systems with varying user memory sizes are offered as replacements for the successful L Series Model 1 line. The L 6500 has a magnetic ledger capability, while the three remaining models are billing and accounting versions.

CHARACTERISTICS

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

MODELS: L 6200, L 6300, and L 6400 Accounting Computers; L 6500 Magnetic Record Computer.

DATA FORMATS

BASIC UNIT: 64-bit word. Each memory word holds 15 decimal digits plus sign (4 bits for each digit and sign), or up to 4 instructions (16 bits per instruction).

FIXED-POINT OPERANDS: One word, consisting of 15 digits plus sign or 8 alphanumeric characters.

FLOATING-POINT OPERANDS: No provisions for floating-point arithmetic are offered.

INSTRUCTIONS: The machine language used with the L 6000 Series business minicomputers is Burroughs' System Language 3. Decimal instructions four digits in length are used, with arithmetic instructions being the one-address, "add-to-accumulator" type.

INTERNAL CODE: ASCII.

MAIN STORAGE

STORAGE TYPE: A non-removable ceramic, magnetic disk with fixed heads is used for main storage.

ACCESS TIME: Average disk access time is 5 milliseconds for all L 6000 Series models.

CAPACITY: L 6000 Series disk storage contains a maximum of 1,280 64-bit words organized into 5 blocks (256 words per block). Each block consists of eight tracks, with a read/write head servicing each track.

Memory is divided into three areas: normal, control, and variable. System control functions are under microprogram control. That is, two or more microinstructions (machine-level instructions) are linked together to execute a macroinstruction. The normal memory area is the user program storage area, where series of macroinstructions

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➤ A basic L 6000 system consists of a desk-size keyboard printer console, a central processor with disk memory for main storage, a 20-character-per-second ball printer, and a forms handler. Thirty such models are currently available, and the company offers a broad selection of forms handling and input/output devices for system use.

Purchase prices of the L 6000 systems range from \$7,350 to \$22,480. These prices are basic system prices only and do not include auxiliary input and output units or forms handling options. Burroughs currently offers the L 6000 systems for purchase only; no rental or lease prices are available at this writing.

All L 6000 computers are controlled by disk-resident firmware systems. This firmware is a form of microprogramming that consists of Burroughs-designed microinstruction sets. These microinstructions, strung together, perform the commands specified by the source-level (user) macroinstructions. Firmware is stored in the "control area" of disk memory, while user programs, constants, and accumulated totals are stored in the "normal area." The normal area is alterable by the user; the control area is not. The available user memory space in any L 6000 system depends on such factors as the number and types of input/output devices in the system. The user space ranges from 128 to 768 64-bit words in the L 6200, L 6300, and L 6400 systems. The L 6500 systems support 544 to 608 64-bit user words of disk memory, depending on the model.

➤ are stored as macroprograms. The control area stores all system microinstructions, and the composite of this area is called System Firmware. The variable area is available for enhancement of the user (macroprogram storage) and control (microinstruction storage) areas.

Maximum storage on all L 6000 systems amounts to 1,280 words of storage. Systems with the entire 1,280 words implemented are called "Series L with extended memory." In some systems, only part of the variable area may be implemented, with the normal user area ranging from 128 to 768 words of user (macroprogram) storage. The control area contains a minimum of 512 words for microinstruction storage. Where more than 512 words of microinstructions are required, the additional storage is taken from the variable area, thus reducing the available user storage by a corresponding amount.

L 6500 disk memory, for example, can be implemented with a minimum of 544 user words. Since all L 6500's are extended-memory systems, the control area contains up to 736 words for microinstruction storage. At the upper range of user storage, L 6500's can be implemented with a maximum of 608 user words. The control area then contains up to 672 words for microinstruction storage.

CHECKING: None.

STORAGE PROTECTION: The control area of disk is protected in that this area is not accessible to users and cannot be written into.

CENTRAL PROCESSOR

➤ GENERAL: Central processing functions are performed by defined strings of micrologic software instructions (firmware) stored as microinstructions in the control area

SUMMARY DATA FOR BURROUGHS L 6000 SERIES

| | L 6200 | L 6300 | L 6400 | L 6500 |
|--|-----------|-----------|-----------|------------|
| Date announced | 5/74 | 5/74 | 5/74 | 5/74 |
| Width of forms handler (inches) | 15.5 | 15.5 | 26 | 26 |
| Number of print positions | 150 | 150 | 255 | 255 |
| Type of forms feed | Rear | Front | Front | Front |
| Type of platen | Split | Split | Split | Split |
| Magnetic Memory Record facilities | None | None | None | Standard |
| Maximum capacity of magnetic-stripe documents (digits) | — | — | — | 349 |
| Basic user memory capacity (words) | 128 | 128 | 128 | 576/544 |
| Maximum user memory capacity (words) | 768 | 768 | 768 | 608 |
| Basic price | \$11,490* | \$12,990* | \$14,390* | \$18,690** |

* Basic price includes processor, disk memory with 512 user words, printer console, and keyboard.

**Basic price includes processor, disk memory with 608 user words, printer console, and keyboard.

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PERIPHERALS/TERMINALS

| DEVICE | DESCRIPTION | SPEED |
|--|--|---------|
| MAGNETIC TAPE EQUIPMENT | | |
| A 9490-25 | Cassette tape drive | 1 KCS |
| A 1495 | Industry-compatible, 12.5 ips, 9-track, 800 bpi | 10 KBS |
| PUNCHED PAPER TAPE/EDGE-PUNCHED CARD EQUIPMENT | | |
| A 562 | Punch; 5-, 6-, 7-, or 8-channel strip or fanfold tape | 40 cps |
| A 581 | Reader; 5-, 6-, 7-, or 8-channel strip or fanfold tape | 40 cps |
| PUNCHED CARD EQUIPMENT | | |
| A 595 | Card reader; 80-column | 100 cpm |
| A 596 | Card reader; 80-column, EBCDIC | 100 cpm |

➤ Burroughs has significantly increased system performance in three major areas. First, 32-character hardware buffers have been incorporated at the keyboard input and at the printer interface. In the Series L Model 1 equipment, the keyboard and printer are interfaced with a seven-character buffer. Four additional three-character buffers are implemented on disk. This arrangement tends to slow down system operations, since data to be processed and printed has to be accessed and routed under firmware control. Certain frequently used commands, such as "print alpha" or "print numeric," invoke interrupts which have a breaking effect on the data stream and a concomitant reduction in throughput data rates.

With the addition of the 32-character buffers at the keyboard and printer, system operations are maintained at rates, which, according to Burroughs, are 17 to 40 percent better than those of the L Series Model 1. Implementation of these buffers permits simultaneous operations in processing, indexing, and printing data. Now, instead of the operator waiting for the machine, the machine waits for the operator.

Secondly, from the operator's point of view, the new electronic keyboard should make work easier, since keys respond to a lighter touch. A gentler keystroke generally reduces the likelihood of striking more than one key at a time, thus reducing operator errors.

The third major improvement incorporated in all L 6000 series equipment is the photoelectric memory loader. The loader reads paper or Mylar tape at the rate of 100 characters per second—a big improvement over the L Series Model 1 paper tape readers, whose speeds are 15 characters per second.

Designed primarily for applications that involve visible records and keyboard entry of transaction data, L 6000 ➤

➤ of disk. Firmware accomplishes all processing tasks, including arithmetic and logical operations, input and output control, and data manipulation. Each macroinstruction in a user's program is decoded in the logic section and is carried out by executing the appropriate string of microinstructions in the System Firmware.

The L 6000 Series business minicomputers described in this report comprise the L 6200, L 6300, L 6400, and L 6500 systems. Each member of the series is targeted for use in the following accounting areas: the L 6200 is an electronic billing computer; the L 6300 is an accounting computer which is also available as a window accounting computer (in the latter configuration, the console is narrower but higher than the desk-type console to accommodate operators who normally stand while performing their duties, e.g., bank tellers, reservations agents, etc.); the L 6400 is an accounting computer with more extensive applications than either the L 6200 or L 6300 systems; and the L 6500 is a magnetic record computer with the widest accounting usage potential.

L 6200, L 6300, and L 6400 systems have similar logic and memory but exhibit differences in keyboards, console printers, and forms handling. The L 6200 provides rear feeding of cut or continuous forms. It is equipped with a 15.5-inch split platen (11 inches and 4 inches standard, with other splits optional). The L 6300 differs from the L 6200 in that it provides front forms feed. All versions of the L 6200 and L 6300 are equipped with 16 program selection keys. These keys are used to select program starting, program loading, utility routines, and alternate application-program routines.

The L 6400 system keyboard contains 24 program keys; its printer provides 255 print positions per line (the L 6200 and L 6300 printers have 150 print positions). The L 6400 is designed for front form-feed insertion, and it has a 26-inch split platen (12 inches and 13 inches, with other splits optional).

The L 6500 is a magnetic record minicomputer that processes magnetic striped ledgers. It is a "Series L with extended memory" whose total main storage capacity is 1,280 64-bit words. The L 6500 forms handler is a front-feed device with a 26-inch split platen and a 255-character print line. Magnetic records are automatically aligned by both program control and by the ➤

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▷ business minicomputers feature “human-engineered” controls and flexible forms-handling facilities that can accommodate a wide variety of continuous and cut forms, either singly or in various combinations. In addition, the L 6500 Magnetic Record Computers can read and write up to 352 digits of data on magnetic-stripe documents, which can be fed and stacked automatically by unique console attachments.

L 6000 Series minicomputers can be equipped with data communications interfaces to become TC 600, TC 750, TC 1600, or TC 2600 Series Terminal Computers. Data can be transmitted in either asynchronous or synchronous mode at speeds up to 2,000 bits per second. The TC Series terminals can communicate with other Burroughs computers or terminals, enabling them to serve a wide range of communications functions.

Hardware and software compatibility provide a bridge between the L Series Model 1 systems and the L 6000 Series systems. With the exception of the 80-column card punch equipment, all of the L Series Model 1 peripherals are usable with the L 6000 Series equipment.

All applications software prepared for the Model 1 systems runs on L 6000 systems. It is this compatibility, which provides a source of strength for L 6000 systems. Users can start with Model 1 equipment and advance through the Model 1 line or move into the L 6000 line without the disruption caused by generating new programs or adapting existing software to new systems. Furthermore, software compatibility enables the user to take immediate advantage of Burroughs' Business Management Systems (BMS).

Programs can be prepared in-house by users who have the personnel and facilities available to write COBOL or Assembler programs and compile object programs on punched tape or cards. Programs can be written in Burroughs L/TC COBOL or Assembler language and either compiled or assembled on the Burroughs medium-scale data processing systems, or assembled only on the L/TC Series systems themselves. Programs are prepared on punched paper tape and are easily loaded either at the console or through peripheral input units.

Alternatively, extensive software support is available from Burroughs Corporation. Application program packages, including documentation and program tapes, can be purchased from the company. Individual program products range in price from \$130 for a general accounting age-analysis package (for use on the L 6300) to \$2,745 for a Home Builders Job Cost with Accounts Payable package (for use on the L 6500). A representative list of program products and their prices is given in the accompanying software price list. ▷

▶ data stored on the card's magnetic stripe. Twenty-four program selection keys are standard.

All L 6000 Series accounting minicomputers have electronic keyboards for rapid, convenient data entry. Features of the keyboard include a set of program selection keys (16 keys for the L 6200 and L 6300; 24 keys for the L 6400 and L 6500), 4 operational control keys (located on both the alphanumeric and numeric keyboards), a set of operator communication lights (29 lights on the L 6200 and the L 6300, 37 lights on the L 6400 and L 6500), an alphanumeric keyboard, and a 10-key numeric keyboard.

Operational ambient conditions for the L Series are 50⁰ to 105⁰F with a relative humidity between 5 and 95 percent. Storage conditions (non-operating) are 50⁰F to 160⁰F with a relative humidity between 5 and 100 percent. Power requirements for the L 6200, L 6300, and L 6400 are a nominal voltage of 120 vac at 8 amperes with a voltage range between 108 and 126 volts at 60 Hertz; heat is dissipated at the rate of 2,389 BTU/hour (maximum). Power requirements for the L 6500 are a nominal 120 vac at 8.2 amperes with a voltage range between 108 and 126 volts at 60 Hertz; heat is dissipated at the rate of 2,457 BTU/hour (maximum).

REGISTERS: One 64-bit (15 digits plus flag) accumulator is used for temporary storage of numeric data. It serves as a working memory location to move data between memory word locations, and it temporarily stores numeric data for printing. The accumulator is active whenever data is entered in the numeric mode, and subsequent data entered in this mode replaces the previous contents with the new data. Four index registers are available, with indexing specified by a “Modify” instruction immediately preceding the instruction to be modified.

INDIRECT ADDRESSING: No.

INSTRUCTION REPERTOIRE: Firmware instructions are activated by 167 commands (macroinstructions) at the user or source level, which fall into the following groups: standard set (76); additional data communications, magnetic record (L 6500 only), and optional I/O device instructions (91). The standard set includes 12 keyboard instructions, 11 print instructions, 11 forms-handler and forms-control instructions, 17 arithmetic and data move instructions, 4 flag instructions, 6 index register instructions, 3 branch instructions, 9 skip/execute instructions, and 3 miscellaneous instructions. The 91 optional instructions include 32 data communications instructions, 22 punched card instructions, 21 paper tape instructions, and 16 magnetic unit record instructions. Because of the firmware system used in L Series equipment, all of the source-level instruction sets are alterable by Burroughs.

INSTRUCTION TIMINGS: All execution times listed below are in *milliseconds* for 15-digit (1-word) operands at the user level:

| | |
|---------------------|---------------|
| Move: | 30 |
| Add/Subtract: | 50/50 |
| Multiply/Divide: | Not available |
| Compare and Branch: | 60 |

INTERRUPTS: None. However, keyboard error conditions cause a machine halt, a sound alarm, and a keyboard indication (light). Pressing the reset key removes the error condition. ▶

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▷ Burroughs handles all servicing through its staff of field engineers, who are dispatched from major metropolitan offices throughout the United States and Canada. There are more than 300 sales offices staffed by over 4,650 service engineers in the U.S. alone.

The L 6000 Series business minicomputers compete against the NCR 299 and 399, Litton ABS 1200 Series, Philips P Series, and Nixdorf 800 Series. Burroughs, the leading manufacturer in the small accounting computer market, is followed by NCR, which poses the strongest competition.

Since their introduction in May, more than 150 of the L 6500 systems and 50 of the L 6200, L 6300, and L 6400 systems have been delivered at this writing.

The L 6000 Series provides a growth path for Burroughs users which bridges the gap between the L Series Model 1 and the L 8000 Series. Thus, as the user's business expands, he can acquire higher-performance systems to meet his needs. He can do this with relatively few problems in the area of software, since these systems are upward-compatible from group to group.

The overwhelming success of the L Series Model 1 systems may well serve as an indication of what is in store for Burroughs' new L 6000 Series. The company is optimistic about having a repeat performance with the L 6000's. However, the greatest threat to Burroughs' position in the small accounting computer market may yet come from IBM when the industry giant finally unleashes its long-rumored business minicomputer.

Regardless of competitive developments, the Burroughs position remains strong in the small accounting computer market. Addition of the L 6000 systems neatly fills a gap in the moderate price range of the company's L Series line. New as well as repeat customers continue to show strong interest in the Burroughs accounting computers. As long as Burroughs continues to service this market with reliable equipment and strong software support, the L 6000 family can be expected to meet with the same degree of success achieved by the other L Series computers. □

▶ **CONTROL STORAGE:** Micrologic firmware is stored in the main memory disk control section. The amount of storage depends upon the total system configuration. The L 6500 systems are all implemented with extended memory and have a firmware storage capacity between 672 and 736 64-bit words. Systems without fully extended memory have control areas for microinstruction storage (firmware) ranging from 256 to 896 words. The control area is used to perform the basic interpreter function of translating (interpreting) the user-level object-program code and causing execution of the appropriate microinstructions.

INPUT/OUTPUT CONTROL

I/O CHANNELS: Each type of peripheral device (except the console and keyboard) can use any available I/O control, and each I/O control requires an appropriate slot electrically connected to the system backplane. All I/O operations are performed under program control.

SIMULTANEOUS OPERATIONS: A 32-character hardware keyboard buffer and a 32-character hardware printer buffer permit simultaneous input/output and processing operations. The keyboard buffer accepts alphanumeric, program select, and operation control data while processing and printing previously entered data. Thus, indexing, processing, and printing operations can be performed simultaneously.

CONFIGURATION RULES: The number of peripheral devices and/or memory modules that can be used in an L Series system is limited by the capacity of the processor backplane, which can house a maximum of 60 circuit cards.

MASS STORAGE

Neither magnetic disk units nor any other types of random-access mass storage devices have been announced for the L 6000 Series business minicomputers.

INPUT/OUTPUT UNITS

See Peripherals/Terminals table.

CONSOLE: This basic unit, in different models, is the central component of every L 6000 system. It houses the system's processing logic, memory, keyboard, basic printer and forms handler, control keys and indicators, and basic program loader (a small paper tape reader). The L 6500 console also contains magnetic record facilities.

The basic program loader is a photoelectric paper tape reader that reads 8-channel paper tape from self-threading cartridges at a speed of 100 characters per second. Designed solely for program loading, the unit cannot be used for input of transaction data.

The integrated printer uses an interchangeable ball-shaped printing element that prints data one character at a time at a rated speed of 20 characters per second. The element contains 64 ASCII characters. The print line has a maximum of 150 character positions in the L 6200 and L 6300, and 255 position in all other models. Due to an optional print-in-place program, punctuation marks do not take up a character position. Forms can be inserted from the front in all models except the L 6200, which has a rear-feed forms handler. A split platen is standard in all models.

MAGNETIC RECORD FACILITIES: These facilities, standard in the L 6500 systems, permit data to be read from and recorded upon ledger cards containing magnetic stripes. The L 6500 models have a single-track magnetic record facility and can record a maximum of 349 data digits plus a block-check digit and two line-location digits on each document.

COMMUNICATIONS CONTROL

When equipped with a data communications interface, an L Series minicomputer can become a Terminal Computer ▶

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► (TC). Transmission can be in either asynchronous or synchronous mode at speeds up to 2,000 bits per second. In addition to the Burroughs standard line control procedures, used for communication with other Burroughs computers and terminals, the TC can be equipped to use the binary synchronous (BSC) procedures as well as numerous other communications disciplines and communicate with various IBM and IBM-compatible devices.

The TC can be equipped to handle dual data communications operations, with each operation occurring independently of the other. In addition, the two operations can use different transmission speeds, different modes, and different line control procedures. Thus, a TC can control a "mini-network" of smaller terminals while simultaneously communicating with a larger central computer, or it can act as a data concentrator for other Burroughs terminal systems. Hence, it can serve as a terminal, central processor, or data concentrator.

SOFTWARE

OPERATING SYSTEMS: None.

PROGRAMMING: The principal programming language used by the L 6000 Series minicomputers is L/TC COBOL. However, COBOL programs must be compiled on a larger Burroughs computer system before being loaded on the L 6000 Series. As an alternative to L/TC COBOL programming, programs can be written in assembler language and then assembled either on the L 6000 Series minicomputers themselves or on larger Burroughs computer systems such as the B 3500.

System software used with the L 6000 Series equipment includes debugging aids and a basic report writer. Object programs can be prepared on standard punched paper tape and loaded either at the keyboard (which includes a special paper tape reader) or, optionally, through a separate A 581 paper tape reader. Program loading can also be accomplished through the use of I/O devices such as tape cassettes or card readers.

APPLICATIONS: Burroughs offers a wide variety of standard accounting, billing, and report programs from its comprehensive program library. A partial list of application programs is included in the software price list at the end of this report. These and other programs are available

for use in areas such as manufacturing, contracting, credit unions, hospitals, retailing, banking and government.

PRICING

POLICY: Burroughs currently offers the L 6000 Series systems for purchase only. The standard equipment maintenance agreement permits use of the equipment during one eight-hour period per day. For usage in excess of eight hours per day, Burroughs may negotiate for extra-shift charges; however, this is not normally done unless the user wants extended maintenance coverage during these extra-use periods.

SUPPORT: Burroughs technical assistance is available for \$120 per day, in half-day increments. Burroughs also offers fixed-price turnkey contracts under which it assumes total responsibility for the programming and installation of a system.

EQUIPMENT: The following systems include all necessary control units.

MINIMUM L 6200 BILLING COMPUTER SYSTEM: Consists of a processor, 1,280-word disk memory with 128 words available to the user, standard alphanumeric keyboard, 16 program keys, console printer, and 15.5-inch rear-feed forms handler. Purchase price is \$7,350.

L 6300 ACCOUNTING COMPUTER WITH CASSETTE TAPE: Consists of a processor, 1,280-word disk memory (extended memory) with 768 user words, standard alphanumeric keyboard, 16 program keys, printer console, 15.5-inch front-feed forms handler, and one cassette tape station. Purchase price is \$14,930.

MINIMUM L 6500 MAGNETIC RECORD COMPUTER SYSTEM: Consists of a processor, 1,280-word disk memory with 608 user words, alphanumeric keyboard with 24 program keys, built-in magnetic stripe reader, printing console, and 26-inch front-feed forms handler. Purchase price is \$18,690.

EXPANDED L 6500 MAGNETIC RECORD COMPUTER SYSTEM: Same as the minimum L 6500 (above) except that it has a 576-word user memory capacity and includes a console magnetic record handler with automatic reading of magnetic ledgers and an 80-column punched card reader. Purchase price is \$25,430. ■

EQUIPMENT PRICES

| | | Purchase Price | Monthly Maint.** |
|--|--|----------------|------------------|
| L 6200 ELECTRONIC BILLING COMPUTERS | | | |
| L 6204-200 | System, 128-word store | \$ 7,350 | \$42.50 |
| L 6204-220 | System, 256-word store | 8,350 | 42.50 |
| L 6219-260 | System, 512-word store, I/O, cassette potential | 11,490 | 49.83 |
| L 6219-290* | System, 768-word store, I/O, cassette potential | 12,490 | 49.83 |
| L 6239-260* | System, 512-word store, I/O, cassette potential, communications-compatible | 11,690 | 49.83 |
| L 6239-290* | System, 768-word store, I/O, cassette potential, communications-compatible | 12,690 | 49.83 |
| L 6300 ACCOUNTING COMPUTERS | | | |
| L 6301-200 | System, 128-word store | 8,990 | 42.50 |
| L 6301-220 | System, 256-word store | 9,990 | 42.50 |
| L 6316-200 | System, 128-word store, I/O, cassette potential | 9,990 | 42.50 |
| L 6316-220 | System, 256-word store, I/O, cassette potential | 10,990 | 42.50 |
| L 6316-240 | System, 384-word store, I/O, cassette potential | 11,990 | 45.33 |
| L 6316-260* | System, 512-word store, I/O, cassette potential | 12,990 | 49.83 |

* Words available to user may be less than figures given, depending on firmware requirements.

** These rates apply to the regular 8-hour shift and to systems within metropolitan areas serviced by Burroughs field engineers.

*** Monthly rental includes maintenance.

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EQUIPMENT PRICES (Continued)

| | | <u>Purchase Price</u> | <u>Monthly Maint.**</u> |
|---|--|-----------------------|-------------------------|
| L 6300 ACCOUNTING COMPUTERS (Continued) | | | |
| L 6316-290* | System, 768-word store, I/O, cassette potential | 13,990 | 49.83 |
| L 6336-200 | System, 128-word store, I/O, cassette potential, communications-compatible | 10,290 | 49.83 |
| L 6336-220 | System, 256-word store, I/O, cassette potential, communications-compatible | 11,290 | 49.83 |
| L 6336-260* | System, 512-word store, I/O, cassette potential, communications-compatible | 13,290 | 49.83 |
| L 6336-290* | System, 768-word store, I/O, cassette potential, communications-compatible | 14,290 | 49.83 |
| L 6400 ACCOUNTING COMPUTERS | | | |
| L 6401-200 | System, 128-word store | 10,390 | 45.33 |
| L 6401-220 | System, 256-word store | 11,390 | 45.33 |
| L 6416-200 | System, 128-word store, I/O, cassette potential | 11,390 | 45.33 |
| L 6416-220 | System, 256-word store, I/O cassette potential | 12,390 | 45.33 |
| L 6416-240 | System, 384-word store, I/O cassette potential | 13,390 | 51.67 |
| L 6416-260* | System, 512-word store, I/O, cassette potential | 14,390 | 56.67 |
| L 6416-290* | System, 768-word store, I/O, cassette potential | 15,390 | 56.67 |
| L 6436-260* | System, 512-word store, I/O, cassette potential, communications-compatible | 14,690 | 56.67 |
| L 6436-290* | System, 768-word store, I/O, cassette potential, communications-compatible | 15,690 | 56.67 |
| L 6500 MAGNETIC RECORD ACCOUNTING MACHINES | | | |
| L 6501-260 | System, 608-word store | 18,690 | 70.17 |
| L 6501-261* | System, 576-word store, console magnetic record handler modularity | 19,690 | 70.17 |
| L 6511-261* | System, 576-word store, console magnetic record handler modularity, single I/O potential | 20,690 | 70.17 |
| L 6501-269* | System, 576-word store, console magnetic record handler | 22,480 | 85.58 |

Monthly Rental***

| <u>Purchase Price</u> | <u>Monthly Maint.**</u> | <u>1-year Lease</u> | <u>3-year Lease</u> | <u>5-year Lease</u> |
|-----------------------|-------------------------|---------------------|---------------------|---------------------|
|-----------------------|-------------------------|---------------------|---------------------|---------------------|

PERIPHERALS

N.B.: Although the basic L 6000 Series computers are available on a purchase basis only, the peripherals can also be rented at the prices shown here.

| | | | | | | |
|-----------|---|----------|---------|-------|-------|-------|
| A 562 | Paper Tape/Edge Punched Card Perforator | \$ 1,715 | -- | \$ 52 | \$ 48 | \$ 40 |
| A 581 | Paper Tape/Edge Punched Card Reader | 1,500 | -- | 46 | 42 | 35 |
| A 595 | Card Reader; 80-column, 100 cpm | 2,950 | -- | 97 | 89 | 74 |
| A 1495-1 | Magnetic Tape Unit and Controller; 2 Ports | 11,500 | \$37.00 | 365 | 305 | 280 |
| A 1495-2 | Magnetic Tape Unit and Controller; 4 Ports | 11,750 | 37.00 | 373 | 312 | 286 |
| A 1495-3 | Magnetic Tape Unit and Controller; 6 Ports | 12,000 | 37.00 | 381 | 319 | 292 |
| A 1495-4 | Magnetic Tape Unit and Controller; 8 Ports | 12,250 | 37.00 | 389 | 326 | 298 |
| A 9161-1 | Magnetic Record Read | 4,790 | 25.42 | 148 | 135 | 112 |
| A 9362-1 | Console Magnetic Record Handler | 2,990 | 14.00 | 84 | 80 | 75 |
| A 9490-25 | Cassette Tape Drive and Controller | 1,940 | 8.08 | 55 | 52 | 50 |
| PF 21 | Pin-Feed Device, rear feed, single synchronous (15½") | 250 | -- | 7 | 7 | 6 |
| PF 22 | Pin-Feed Device, rear feed, single asynchronous (15½") | 250 | -- | 7 | 7 | 6 |
| PF 23 | Pin-Feed Device, rear feed, dual (15½") | 500 | -- | 14 | 13 | 13 |
| PF 24 | Pin-Feed Device, front feed, single synchronous (15½") | 250 | -- | 7 | 7 | 6 |
| PF 25 | Pin-Feed Device, front feed, single asynchronous (15½") | 250 | -- | 7 | 7 | 6 |
| PF 26 | Pin-Feed Device, front feed, dual (15½") | 500 | -- | 14 | 13 | 13 |
| PF 27 | Pin-Feed Device, front feed, single synchronous (26") | 250 | -- | 7 | 7 | 6 |
| PF 28 | Pin-Feed Device, single asynchronous (26") | 250 | -- | 7 | 7 | 6 |
| PF 29 | Pin-Feed Device, front feed, dual (26") | 500 | -- | 14 | 13 | 13 |

* Words available to user may be less than figures given, depending on firmware requirements.

** These rates apply to the regular 8-hour shift and to systems within metropolitan areas serviced by Burroughs field engineers.

*** Monthly rental includes maintenance.

SOFTWARE PRICES

| L 6200 | <u>Purchase Price</u> |
|-------------------------------------|-----------------------|
| Accounts Payable Direct Pay Plan | \$ 320 |
| Basic Billing | 195 |
| Billing and Report Writing | 430 |
| Brokerage Freight Billing | 275 |
| Client Accounting—Basic | 1,080 |
| Client Accounting—Payroll & Reports | 1,080 |
| Commodity Freight Billing | 665 |
| Completion Billing | 470 |

Burroughs L 6000 Series
Accounting Computers

SOFTWARE PRICES (Continued)

| | <u>Purchase Price</u> |
|---|---------------------------|
| L 6200 (Continued) | |
| General Billing | 480 |
| General Billing Report Writing—80-Column Card I/O | 435 |
| General Billing with Back Ordering & Analysis | 170 |
| Lumber Billing—Wholesale | 770 |
| Manifest Freight Billing | 355 |
| Net Billing Using Standard NRMA Format | 145 |
| Sales Audit | 570 |
| Simplified Route Accounting | 270 |
| Stock & Bonds Confirmation Notice Preparation | 550 |
| Style, Color and Size | 455 |
| Suppliers Billing—Dry Cleaning Industry | 390 |
| L 6300 | |
| Bank Proof | 160 |
| Commercial Loans | 360 |
| Demand Deposit—Including Service Charge | 255 |
| Installment Loans | 170 |
| Savings—Daily Interest | 190 |
| Auto Dealer (Ford) | 1,185 |
| Billing, Acct. Update | 420 |
| Cash Receipts | 250 |
| Clinic Patient Accounting | 370 |
| General Accounting: | |
| Accounts Receivable | 135 |
| Age Analysis | 130 |
| Accounts Payable | 185 |
| Payroll | 150 |
| Hotel, Front Office | 455 |
| Radio/TV Billing | 970 |
| L 6400 | |
| Accounts Payable | 590 |
| Balance Transfer & Report | 295 |
| Budgetary Accounting | 315 |
| Cash Receipts & DR/CR Posting | 250 |
| General Billing—Automated Sales Accounting | 545 |
| Payroll Accounting | 620 |
| L 6500 | |
| Accounts Payable Direct Pay | 545 |
| Accounts Payable Vendor Record | 935 |
| Accounts Receivable DR/CR Posting | 770 |
| Auto Dealer | 1,890 |
| Billing Accounts Receivable—80-Column Card | 995 |
| Billing Accounts Receivable Inventory Record | 870 |
| Budgetary | 1,325 |
| Commercial Loan Accounting | 565 |
| Contractor—Job Cost Accounts Payable | 1,115 |
| Contractor—Labor Analysis | 685 |
| Credit Union | 1,255 |
| Cycle Billing | 1,172 |
| Financial Statements | 345 |
| General Ledger | 260 |
| Home Builders—Job Cost with Accounts Payable | 2,745 |
| Hospital Patient Accounting—Keyboard Input | 2,005 |
| Hospital Patient Accounting—Punched Card Input | 1,965 |
| Installment Loan Accounting | 785 |
| Inventory Record Update—80-Column Card | 285 |
| Mortgage Loan Accounting | 470 |
| Payroll—Certified Contractor | 1,095 |
| Payroll—Keyboard Entry | 1,375 |
| Payroll—Labor Report | 395 |
| Payroll—Tape Input | 1,365 |
| Payroll—Wage Accrual | 1,615 |
| Report Program | 335 |
| Savings Accounting | 1,035 |
| W2/941a | 170 |
| Report Writer or 941a/W2 Reports | 400 |
| Water Billing | 690 |