

Burroughs

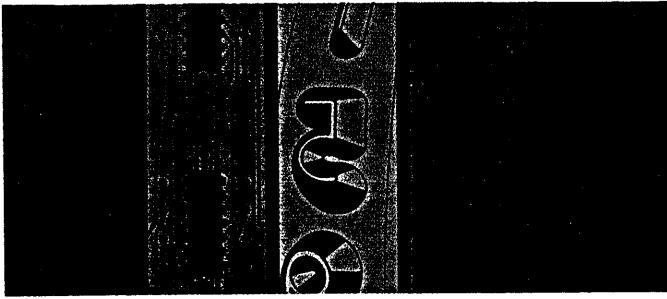
L3000 & L4000 ACCOUNTING COMPUTERS

Bring Computer Versatility
To Your
Accounting and Management
Reporting

ADVANCED MICROLOGIC

DISK MEMORY
MODULAR ELECTRONIC DESIGN

INTEGRATED CIRCUITRY



BRING COMPUTER VERSATILITY
to your accounting and management
reporting with Burroughs
SERIES L
ACCOUNTING COMPUTERS

Here is a line of versatile, internally programmed, desk-size computers capable of efficiently processing accounting records and generating timely management reports. Burroughs Series L offers every business an economical and highly responsive approach to its accounting requirements, both now and in the future.

FLEXIBLE SYSTEM DESIGN

A combination of powerful internal programming and variable forms handling capabilities provides broad applicational flexibility to do your kind of work. A wide variety of standard application programs are available to effectively meet your needs.

In addition, the Series L is easily upgraded to an on-line terminal computer, thereby providing the flexibility to meet your growing or changing requirements.

ADVANCED SOFTWARE DESIGN

Like all other Burroughs internally programmed computers, the Series L is programmable in COBOL—the standard business programming language of large electronic data processing systems.

RELIABLE ELECTRONIC DESIGN

Advanced micrologic . . . integrated circuitry . . . magnetic disk memory . . . modular electronic internal construction . . . these modern electronic concepts are combined to provide high reliability.

PRODUCTIVE PERFORMANCE

The Series L memory, full computational power, advanced logic, and powerful programming assure fast, accurate processing and decision making. These abilities make routine work of simple and complex accounting jobs. Optional input and output peripherals offer further automation and simplification of your accounting and management reporting. You'll do more than your daily accounting, you'll have the capability to do specialized analyses and reports tuned to your management information needs.

AND EASY TO USE

Your operator will require very little training to achieve proficiency. Constant machine/operator communications tell your operator what to do and when to do it—her decisions are reduced to only those you want her to make. And powerful program control works with your operator to encourage maximum speed and accuracy. It's that simple.

**A powerful basic system
that does your kind of work . . .**

- Sales and Customer Accounting
- Invoicing
- Payroll and Associated
Government Reports
- Purchase Order Preparation
- Purchase and Payment Accounting
- General Ledger
- Financial Statements
- Management Reports
- Cost Management
- Governmental Accounting
- What Would You Like It To Do ?



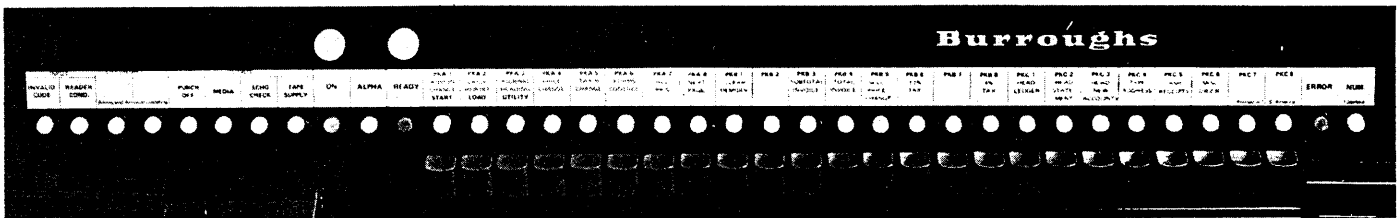
COMPUTER VERSATILITY *through* SIMPLE,

Powerful internal programing provides positive operator communication and control

The powerful internal program is the key to the accelerated productivity achieved by the Series L. It exercises complete control over all data input, processing, and output.

Programs are easily and quickly entered into memory at the start of each application. Each program contains complete instructions for every phase of the computer's operation—data input, computation, print formatting, forms movement, and peripheral input/output.

... and makes the **SERIES L** easy to learn



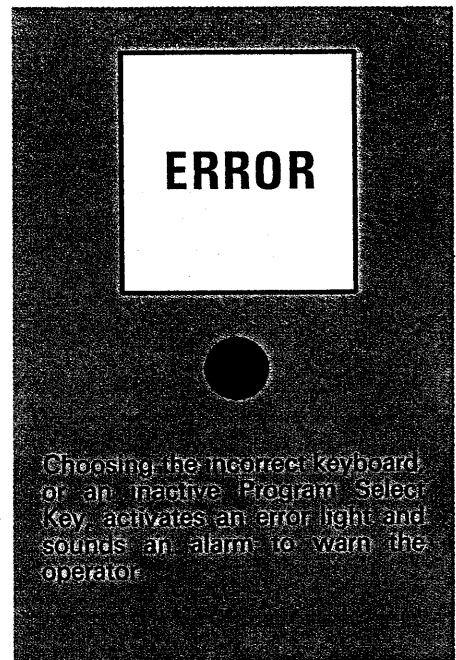
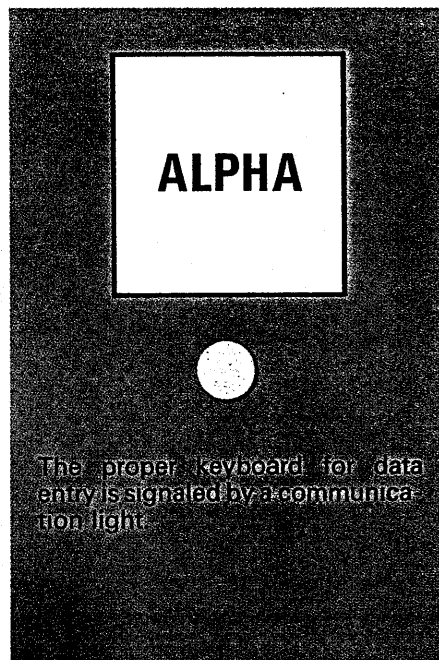
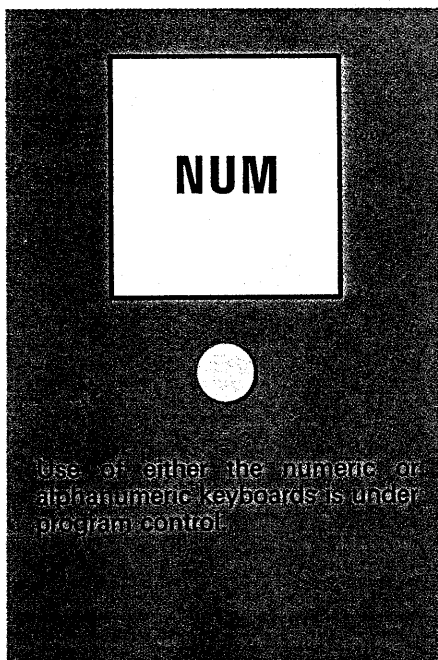
Above the typewriter are 24 Program Select Keys (16 on the L 3000)—each with an operator availability light for instant communication. Each key function is clearly labeled, and may represent a program segment, a complete sub-routine, or it may activate a different program.

These keys are selectively activated under program control to enforce a controlled sequence of operation. Indicator lights signal available keys during each program segment, and your operator's decisions are limited to

choosing between correct alternatives.

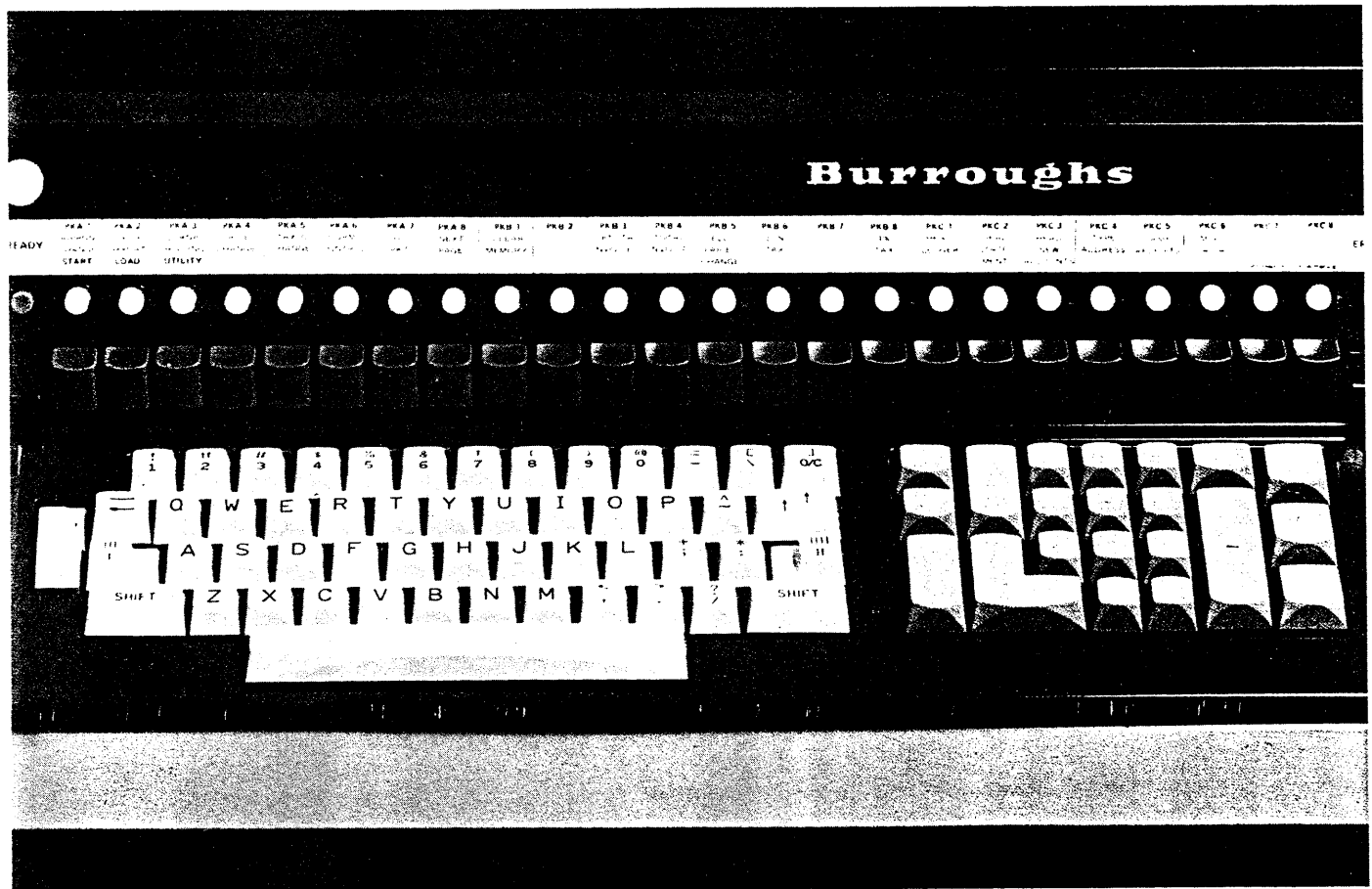
In addition, your operator has other communication lights to indicate the operating status of input/output peripherals.

This combination of enforced sequence of operation and direct communication provides a controlled operating simplicity for even the most complex applications. Operator training time is minimized and operator efficiency is automatically encouraged.



ELECTRONICALLY CONTROLLED INPUT

The SERIES L keyboard provides complete, simple input capability



The electronic alphanumeric typewriter and numeric ten-key keyboard provide versatile data input. The electronic keyboard concept permits the flexibility to program keyboard functions to best suit each application. Powerful keyboard input programming controls field sizing and enforced use or non-use of keys.

The standard numeric ten-key keyboard provides flexibility for indexing reverse or minus entries, multiple ciphers

with a single key depression, and special codes. Decimal alignment is automatic under program control.

The familiar typewriter keyboard permits full alphabetic and numeric input. It also has a full range of special character keys.

Both keyboards have four programmable Operation Control Keys which terminate keyboard input and permit the application program to continue its automatic execution.

Keyboard buffering assures operator productivity

The Series L incorporates an exclusive 35-character keyboard entry buffer. Buffering allows the operator to maintain a steady, rhythmic data input flow regardless of the action of the printer, forms movement, or internal processing.

This balancing of input with processing and output speeds keeps both the operator and the system operating at maximum productivity.

COMPUTER VERSATILITY *through* ADVANCED,

Burroughs Series L internal design incorporates many advanced, proven-in-use data processing concepts to enhance productive power and reliability. Among these modern electronic features are integrated circuitry, magnetic disk memory, modular electronic internal construction, and the advanced micrologic approach to computer design.

Advanced micrologic provides functional capabilities to meet system requirements

The Series L uses micrologic, one of the most advanced techniques in the computer industry, to provide powerful processing capabilities. Defined strings of micrologic software instructions are called "Firmware". Firmware performs the basic logic and arithmetic functions required in your accounting system—functions usually performed with hardware on other equipment in this price class.

Firmware Sets (defined strings of micrologic instructions) are available to efficiently meet the requirements of your accounting and report writing system. These requirements include the control of input/output peripherals, mathematical functions, and the moving, managing, and accumulating of data.

If the functional requirements of your system change—e.g., you add or change peripherals in the future—new Micrologic is easily loaded onto a special, protected area in disk memory.

You'll benefit from the responsiveness to easily and economically meet the growing or changing requirements of your accounting system.

A versatile memory for productive power

The Series L's compact memory is a magnetic disk. Its head-per-track design is similar in concept to the disk memory concepts used in highly successful, larger scale Burroughs Data Processing Systems. This random access disk memory provides throughput capability in accounting and management reporting.

The memory is multi-purpose and stores:

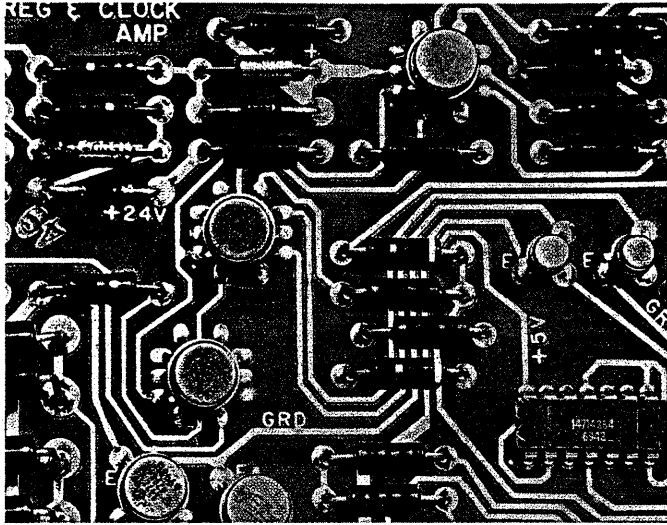
- The user application program, including alphanumeric constants and accumulated totals.
- Firmware—defined strings of micrologic instructions.

The disk has a total of 16,384 digits (16.3 K) of data organized into 1,024 words, variably divided into User and Firmware areas. Each 64-bit word can store 4 program instructions, 15 digits plus sign, or 8 alpha characters.

The disk revolves at 6000 RPM. Each track has its own read/write head assuring an average access time of 5 milliseconds.

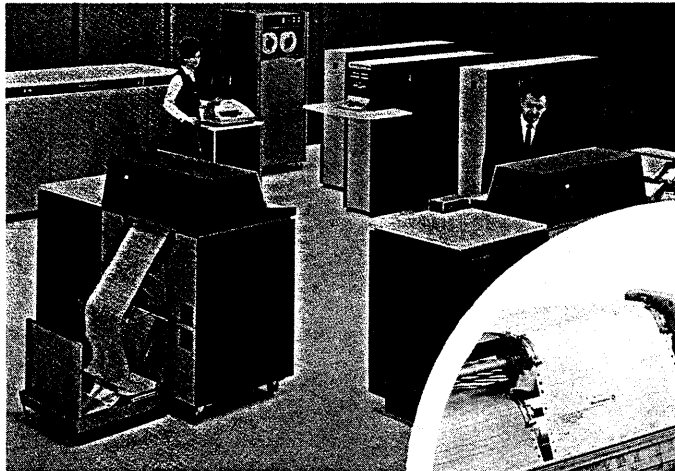


PROVEN-IN-USE DATA PROCESSING CONCEPTS



Modern electronic design for reliability

The use of compact integrated circuitry and disk memory working in combination with Firmware eliminates many fixed hardware components. This design provides high reliability and requires minimal maintenance. The Series L's six major components—memory, logic, power supply, keyboard, printer, and forms handler are modularly designed. This planned simplicity permits unitized replacement of components to maximize uptime.



The potential for future conversion to an on-line terminal computer

The system you install today may not be the system you'll want or need in the future. Your business will grow or change. Your accounting concepts will change. With the Series L, you'll be able to change right along with the trends. It has the built-in modularity for future conversion to an on-line terminal computer. You'll be able to communicate directly with your own central computer or a service bureau, and obtain the benefits of on-line, real-time electronic data processing.

In this on-line environment, the Series L becomes more than a powerful, versatile accounting computer. It becomes the heart of a dynamic information processing system.



CAPACITY

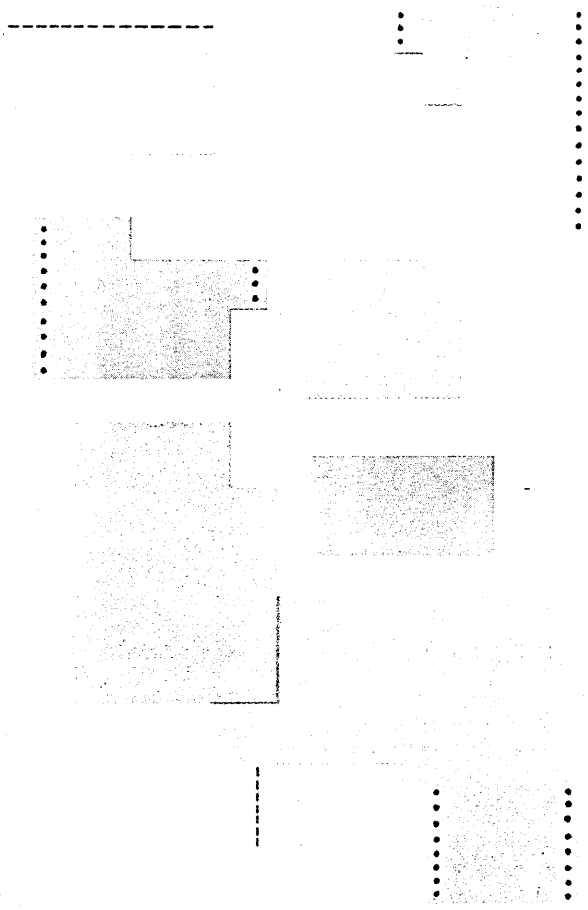
LEDGERS, JOURNALS, AND "UNIT SET" FORMS



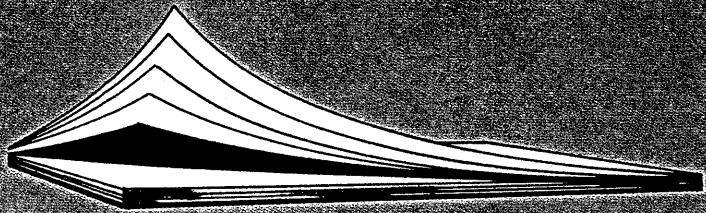
Ledgers, other accounting records, and unit set forms of varying sizes and thicknesses can be front-fed into the Series L forms handler—all in the same program. The design of the forms guide speeds and simplifies applicational changes to different forms sizes. Placement is variable in relation to journals—cut or continuous.

The Series L features easy insertion of front-fed forms. Limits are available for forms insertion to a fixed printing line. Positive 4 point alignment (front and rear) means your operator never touches the forms handler and assures form registration for "printing press quality" work.

Single sheets, unit sets, journal rolls, ledgers, records, listing tapes, and marginally punched continuous forms can be used individually or in combination for the set-up which best meets your needs.



The ball printer prints up to 20 characters per second; positions at up to 200 characters per second—10 times faster than its printing speed—AND IT POSITIONS DIRECTLY TO THE MOST SIGNIFICANT DIGIT IN ANY NUMERIC FIELD. A remarkably fast overall printing capability.



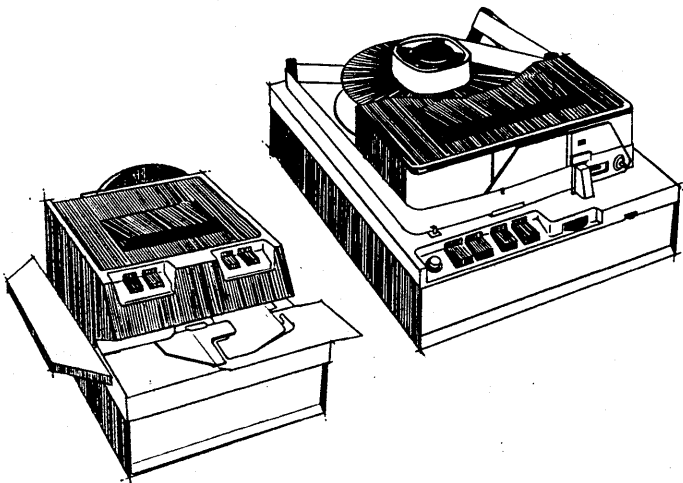
The printer provides exceptional printing quality. Multiple part forms are printed with exceptional clarity—the result of a unique device which senses the form's thickness and applies pressure accordingly.

COMPUTER VERSATILITY *through* EXTENDED SYSTEM

A choice of peripherals to maximize system throughput

The Series L works with a variety of automatic input/output peripherals enabling you to get more out of your system, easier, faster, and more accurately. It can accept its own output as input to further expand its productive power. You get management reporting capabilities unmatched by other systems in the Series L price range. And the Series L has the modularity to accept these peripherals at any time.

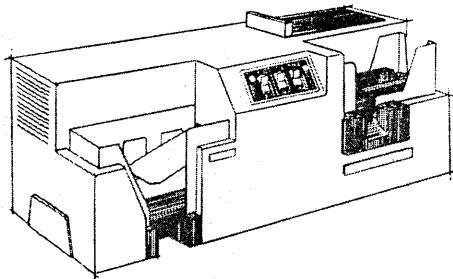
PUNCHED PAPER TAPE/EDGE PUNCHED CARD I/O



The Punched Paper Tape/Edge Punched Card Reader reads 5, 6, 7, or 8 channel tape photoelectrically at up to 40 characters per second. It accepts punched paper tape in reels or strips and various-size individual edge punched cards. Parity checking assures reading accuracy. Optional take-up and supply reels are available for efficient tape handling.

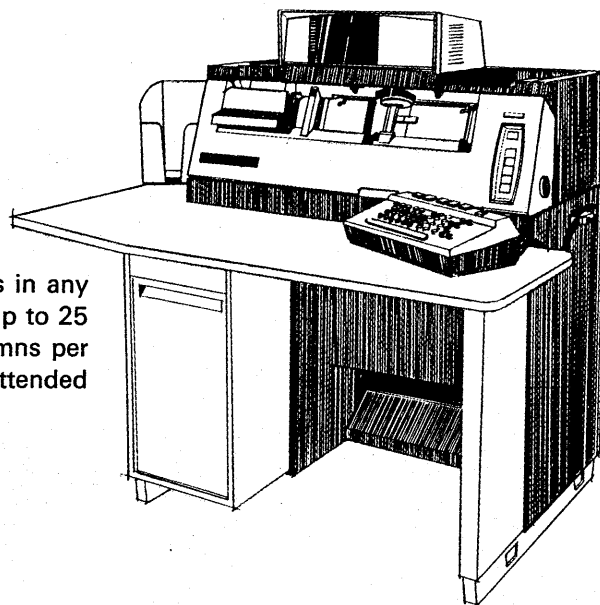
Burroughs Punched Paper Tape/Edge Punched Card Perforator punches 5, 6, 7, or 8 channel paper tape in strips or reels and various-size individual or continuous edge punched cards at up to 40 characters per second. Echo check assures punching accuracy. Supply and take-up reels provide efficient tape handling. Provision is also made for the efficient handling of continuous edge punched cards.

STANDARD 80-COLUMN PUNCHED CARD I/O



The Punched Card Reader reads standard 80-column punched cards serially by photoelectric sensing at up to 100 cards per minute during program loading. Card read speed during processing is program-dependent. The card reader features individual feeding and stacking hoppers.

Burroughs 80-Column Card Punch punches cards in any desired code. It punches, prints, and reproduces at up to 25 columns per second; skips and releases at 80 columns per second. It can also be used off-line as an operator attended keypunch.



CAPABILITY... PROVIDES EXPANDED MANAGEMENT REPORTING

PROFIT AND LOSS STATEMENT				
PERIOD FROM JAN., 7- TO MAY, 7-				
%	MTD AMOUNT	DESCRIPTION	%	YTD AMOUNT
49.68	35,070.02	SALES GROUP I	33.94	130,040.04
28.44	20,077.00	SALES GROUP II	18.30	70,120.00
21.86	15,430.80	SALES GROUP III	47.74	182,881.20
100.00	70,577.82	TOTAL SALES	100.00	383,041.24
73.59	51,944.11	COST OF SALES	74.87	286,806.90
26.40	18,633.71	GROSS MARGIN	25.12	96,234.34
5.11	3,610.65	SALARIES - SALES	4.58	17,544.60
4.30	3,036.60	SALARIES - OFFICE	3.96	15,180.00
2.56	1,810.00	SALARIES - OTHER	2.41	9,255.30
2.07	1,465.40	COMMISSION	1.72	
14.05	9,922.65	TOTAL SALARIES EXPENSE	12.68	
.46	325.00	ADVERTISING	.34	
.07	50.30	AUTO EXPENSE	.06	
.15	110.05	OFFICE EXPENSE	.10	
.12	87.60	POSTAGE EXPENSE	.11	
.31	220.00	FREIGHT EXPENSE	.20	
.15	110.50	TRAVEL-ENTERTAINMENT	.16	
.57	404.77	DELIVERY EXPENSE	.52	
.10	76.50	OTHER SUPPLIES	.09	
.13	98.05	TEL-TEL EXPENSE	.09	
.14	100.00	LEGAL EXPENSE	.05	
.01	12.50	DUES/PUBL.	.01	
.00	.00	BAD DEBT EXPENSE	.07	
.09	65.10	MISC. EXP.	.06	
2.35	1,660.37	TOTAL SEMI-FIXED EXP.	1.94	
2.09	1,480.00	RENT EXPENSE	1.10	
.18	133.69	AMORT. LEASEHOLD IMP.	.11	
.72	510.65	MAINT. BUILDINGS	.73	
1.79	1,265.02	MAINT. EQUIP.	1.33	
.43	305.60	UTILITIES	.37	
.58	410.00	INSURANCE	.42	
.56	397.50	TAXES-PAYROLL	.51	
1.06	754.66	TAXES-PROPERTY	.92	
.60	430.00	DEPR-BUILDING	.44	
1.41	1,000.00	DEPR-EQUIP.	.57	
.42	300.00	DEPR-DELIVERY EQUIP.	.18	
.28	200.00	DEPR-OFFICE EQUIP.	.21	
.00	.00	DEPR-FURN. FIXTURES	.00	
10.18	7,187.12	TOTAL FIXED EXPENSE	6.95	
.19	136.43	GROSS PROFIT	3.53	
2.34	1,655.80	CASH DISC EARNED	1.88	
1.01	714.66	INTEREST EARNED	.86	
.75	535.02	BAD DEBT RECOVERED	.52	
.14	103.50	SALE OF SCRAP	.11	
.07	55.75	OTHER INCOME	.08	
.07	52.88	CASH OVER	.03	
4.41	3,117.61	TOTAL OTHER INCOME	3.51	
1.48	1,050.33	CASH DISC ALLOWED	1.49	5,726.10
1.24	876.11	INTEREST PAID	.87	3,365.28
.12	87.50	OTHER DEDUCTION	.08	320.00
.07	55.80	CASH SHORT	.05	220.70
2.93	2,069.74	TOTAL DEDUCT. FROM INC.	2.51	9,632.08
1.48	1,047.87	NET INCOME ADJUSTMENT	.99	3,826.28
1.29	911.44	NET PROFIT		
		NET PROFIT	4.53	17,371.71

These sample reports have been produced using the powerful report writing capability of the Series L. Other Burroughs standard software programs are available to meet your management reporting needs.

PRODUCT SALES AND PROFIT ANALYSIS				
DATE <u>June, 7-</u>				
PROD. NO.	PRODUCT	NET SALE	COST	GROSS PROFIT
1	ELECTRIC TEST FIXTURES	52,885.56	32,937.50	19,948.06
2	REPLENISHERS	500.00	265.00	235.00
3	MAGNETIC TAPE REEL LAB	855.00	360.00	495.00
4	NO 10. BOLTS	59.00	35.00	24.00
5	K & W WATERLESS SOAP	650.00	320.00	330.00
6	MOLDING GRADE IRON	16.12	10.00	6.12
7	COPPERED MUSIC WIRE	2,350.00	1,725.00	625.00
8	#451 BRAIDED ROPE	537.00	285.00	252.00
9	HASTINGS SCREW 3 1/2"	60,000.00	32,500.00	27,500.00
10	CUTMAX-105	750.00	510.00	240.00
11	601 IB HI SPEED CIRCUIT	7.00	2.75	4.25
810.15				
26	CASE COPPER COAT	99.50	47.50	52.00
27	A-1/4" HAMMER DRILLS	76.40	32.20	44.20
28	RUBBER TIRE	148.00	85.00	63.00
29	51151 1/4 GUIDE	50.00	20.00	30.00
30	MISC.	225.00	150.00	75.00
		149,515.13	84,020.55	65,494.58
		NET SALE	COST	GROSS PROFIT

OTHER TYPES OF MANAGEMENT REPORTS WHICH CAN BE PRODUCED INCLUDE:

- Balance Sheet
- Aged Trail Balance of Accounts
- Job Cost Labor and Material Reports
- Factory Labor Analysis Reports
- Inventory Status Reports
- Governmental Budget and Revenue Reports
- Special Reports To Meet Your Needs

DAILY SALES AND COMMISSION SALES REPORT		
SALES SUMMARY		
GROSS	\$	107,201.93
MISC TAX		1,258.18
SALES TAX		4,051.22
ADD-ONS		3,622.40
DEDUCTIONS		5,270.12
DISCOUNTS		1,782.47
NET		109,081.14
SALES BY SALESMEN		
SALESMAN	SALES	COMMISSION SALES
SALESMAN 1	\$ 15,293.35	\$ 2,874.86
SALESMAN 2	18,818.58	.00
SALESMAN 3	11,079.01	1,343.68
SALESMAN 4	11,747.01	8,263.07
SALESMAN 5	11,997.66	2,026.20
SALESMAN 6	.00	.00
SALESMAN 7	14,568.85	3,941.20
SALESMAN 8	10,326.63	.00
SALESMAN 9	13,343.87	13,343.87
HOUSE SALE	26.97	.00

COMPUTER VERSATILITY *through* POWERFUL

Software is a full partner in system performance

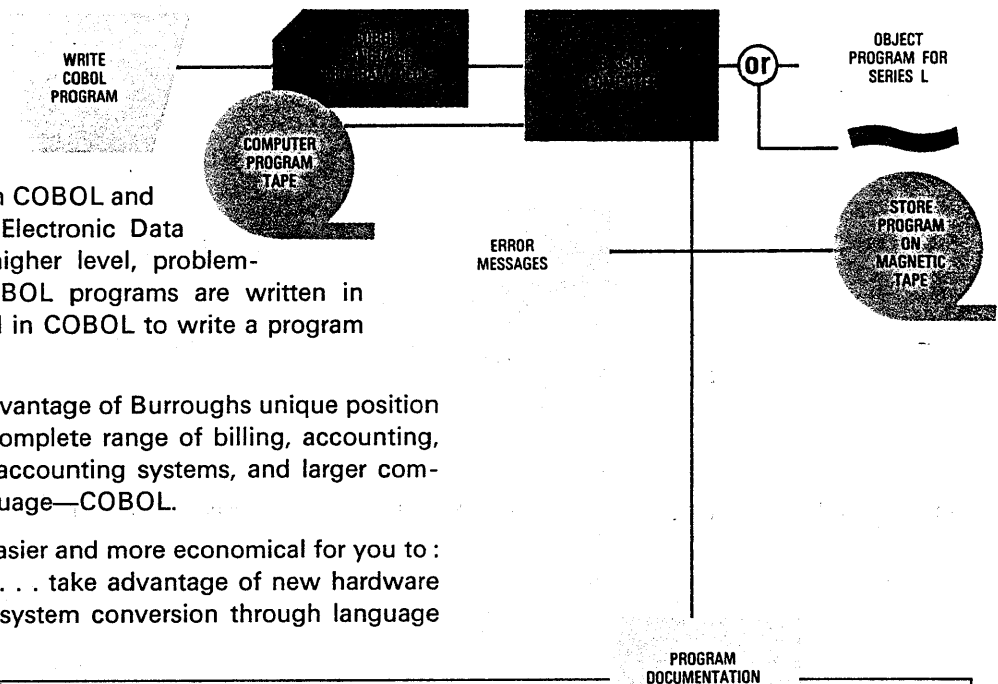
Much of the Series L's responsiveness and high performance results from powerful software developed concurrently with hardware design. The ability to do COBOL* and Assembler programming gives you the most powerful programming capabilities available for operator attended systems. Complete software capability assures optimum efficiency from your Series L system.

COBOL PROGRAMING*

Series L programs can be written in COBOL and compiled on a Burroughs B 3500 Electronic Data Processing System. COBOL is a higher level, problem-oriented programming language. COBOL programs are written in English. This enables anyone trained in COBOL to write a program without learning machine language.

Series L customers can take full advantage of Burroughs unique position in the industry—that of offering a complete range of billing, accounting, and terminal computers, electronic accounting systems, and larger computers programable in common language—COBOL.

This common language makes it easier and more economical for you to: expand your present system . . . or . . . take advantage of new hardware development. The result is ease of system conversion through language compatibility.



```
033300 CHANGE-EMPLOYEE-NO-ROUTINE.
033400   ADVANCE 1 LINE.
033500   POSITION TO 40.
033600   DISPLAY "EMP NO".
033700   POSITION TO 49.
033800   ACCEPT EMP-NO FROM KEYBOARD-PRNTR.
033900   ADVANCE 1 LINE.
034000   GO TO CHANGE-EMP-NO.
034100 WRITE-CHECK.
034200   POSITION TO 40.
034300   DISPLAY CHECK-DATE.
034400   POSITION TO 53.
034500   DISPLAY FIRST-CK-NO.
034600   ADD 1 TO FIRST-CK-NO.
034700   POSITION TO 42.
034800   ACCEPT 20 CHARACTERS FROM KEYBOARD-PRNTR.
034900   POSITION TO 109.
035000   DISPLAY PAYROLL-END-DT.
035100   IF SW8 GO TO DT-HRS-PARA.
035200   IF SW2 GO TO CALC-NEXT-PAY.
035300 HOURS-LISTING.
035400   IF SW6 ADVANCE 1 LINE.
035500   MOVE 0 TO SW6 SW7.
035600   IF SW8 GO TO RFG-HRS-PARA.
035700   ACCEPT AMOUNT1 FROM KEYBOARD.
035800   IF UCK4 GO TO PEG-PAY-PARA.
035900   IF DCK1 GO TO REG-HRS-PARA.
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This is an excerpt from
a Series L COBOL pro-
gram documentation.

*Series L COBOL is based on USASI COBOL with additional constructs to enable operator attended features and certain unique hardware characteristics.

PROGRAMING TECHNIQUES

YOU ALSO BENEFIT FROM:

IMPROVED COMMUNICATION

During program definition, program requirements are communicated in the same language that the programmer will use.

The result is better communication with fewer errors of interpretation.

EASIER AND FASTER PROGRAM CREATION

Using COBOL, the entire program is written in English. The programmer can concentrate on the logical correctness of the program, instead of the details of hardware manipulation.

The result is faster and easier creation of programs for your installation.

EASILY UNDERSTOOD DOCUMENTATION

Program documentation is in the English language.

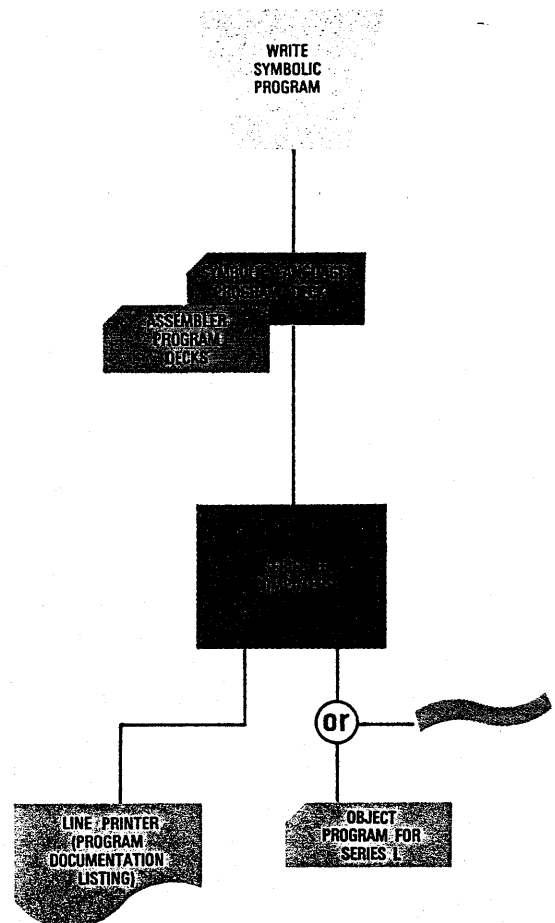
The result is high-quality, easily understood program documentation to support your installation.

EASIER MAINTENANCE

Program maintenance is faster, easier, and with easy-to-read documentation to facilitate future changes. The result is future changes are easily made, even if programing personnel have been changed.

SYMBOLIC PROGRAMING LANGUAGE: ASSEMBLER

Burroughs also offers the choice of programing in assembler language. Assembler level programs are written with a simple, powerful symbolic language. They can be assembled on the Series L itself, or on large-scale Burroughs Electronic Data Processing Systems.





Burroughs L 3000 Accounting Computer with a 15½" forms handler.

Application software and system support from Burroughs

Series L Accounting Computers offer a program/system design to fit your requirements—industrial, commercial, financial, or governmental. Standard Application Program Packages are available from Burroughs Program Library. Selecting a Standard Program Package assures you of a proven program and enables faster installation of your system at a lower cost.

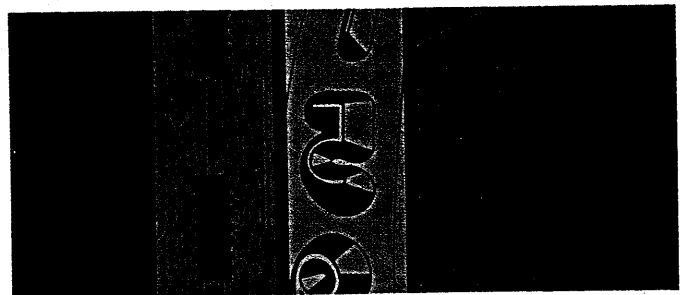
You may also choose the following in obtaining software:

- Modification of standard Application Program Packages by Burroughs Application Software Representatives.
- Customized programs written by Burroughs Application Software Representatives.
- Writing your own programs after Burroughs training.

Burroughs also provides systems analysis and forms consultation by Representatives and Specialists familiar with your business needs and problems.

After your system is installed, your Representative will provide an operator's manual and personally train your operator until the fundamentals of operation are mastered.

Your Representative will also show you a program of preventive maintenance available through a Burroughs Maintenance Agreement. Burroughs has a nationwide force of Field Engineers ready to provide any necessary service; and for your convenience, they offer a complete line of quality business supplies.



Wherever There's
Business There's



Burroughs