

LaFarr Stuart

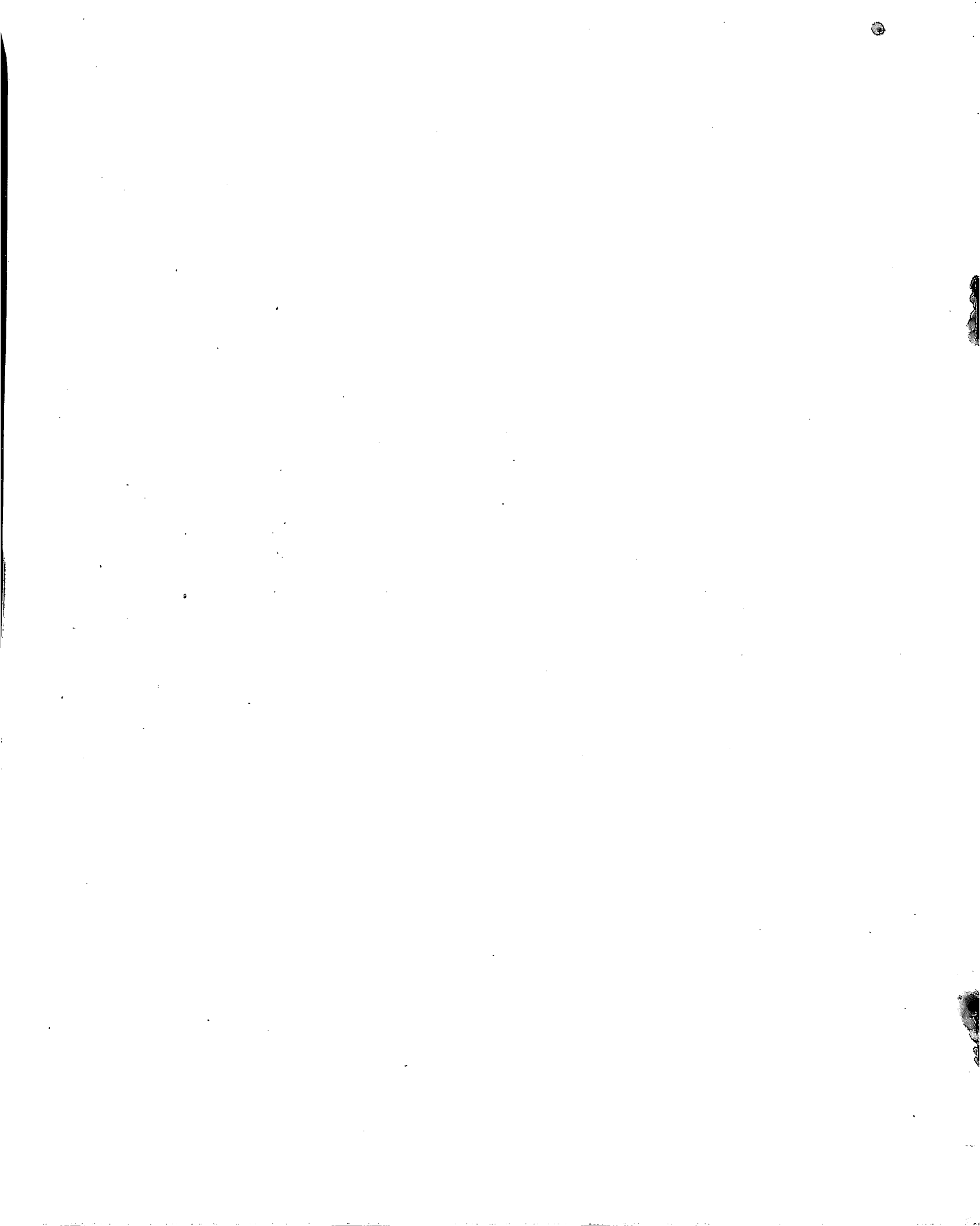
ElectroData

DIVISION OF BURROUGHS CORPORATION

**electronic
data
processing
systems**

**Authorized Catalog
General Services Administration
Federal Supply Service
Class 54, Part VI—Item 54-R-4248-200
Contractor: ElectroData,
Division of Burroughs Corp.
Period July 1, 1957, through June 30, 1958
Contract No. GS-00S-15410
GSA Distribution Code 76**

**Federal Government Office
1145 19th Street, N. W.
Washington 6, D. C.**



ELECTRODATA
Division of Burroughs Corporation

MACHINE RENTAL

BASIC USE CHARGE

The Burroughs Corporation, ElectroData Division, will lease Electronic Data Processing equipment to the Federal Government under the General Services Administration contract on the basis that the monthly rental entitles the Government to a maximum of 176 hours of operational time within each calendar month.

Operational time is defined as that time during which the D.C. power is on and the equipment is not being used for either scheduled or unscheduled maintenance.

Equipment maintenance service, as defined below under Leased Equipment Service Maintenance, is included in the basic monthly rental.

The rental charges for the month will be reduced by 1/30 of the basic monthly rate for each continuous 24 hour period the System is unavailable for use because of the unquestioned physical failure of the System, providing that: (a) the failure was not due in any way to the negligence of the Government, (b) the system was required for use during the period of failure and that the Government would have been otherwise able to use the system during this period, (c) the Burroughs Corporation, ElectroData Division, has not made like time on a similar system available without additional rental charge to the Government, (d) naturally, rental charges will not be reduced during a calendar month in which, in spite of such down time, a total of 176 operational hours is logged, (e) the twenty-four hour period mentioned above will be calculated from the time that the customer notifies the contractor's representative that the equipment has failed.

EXTRA USE CHARGE

Hours of operational time in excess of the 176 hours within a calendar month shall be billed at thirty-five per cent of the regular hourly rate (basic monthly rental divided by 176 hours). Hours of extra use time shall be computed to the nearest one-half (1/2) hour.

ELECTRODATA
Division of Burroughs Corporation

EXTRA USE CHARGE (Continued)

When several units are normally mechanically or electrically coupled, the sum of the monthly rental of these units is to be taken as the monthly rental factor in the hourly rate formula.

There will be no carry-over of time from one month to the next in those cases where less than 176 hours were used during the month.

MAINTENANCE SERVICE - LEASED EQUIPMENT

Under the 176 hour concept, the Government may schedule the equipment unrestricted as to day, hour, or shift of clerks. Scheduled or unscheduled maintenance will not be counted as use time. Maintenance service as required to keep the equipment in good operating condition, including regularly scheduled maintenance periods daily, will be provided during any eight consecutive working hours between the time of 6:00 A. M. and 10:00 P. M., Monday through Friday, excluding holidays. Time outside of these hours, supplied at the request of the Government, shall be billed at the rate of nine dollars (\$9.00) per man hour, computed to the nearest one-half (1/2) hour.

In other words, maintenance service is not necessarily tied to the scheduled use time of the system. That is to say, in the case where hours in excess of 176 are being scheduled on equipment during a regularly scheduled maintenance period, as defined above, no additional charge will be made for service. However, in some cases, such as overtime or week-end work, where service is requested by the Government for its convenience outside of regularly scheduled maintenance periods, the Government may be billed additional service charges even though during the calendar month use of the equipment has not exceeded 176 hours.

In the case of large installations which may require the services of more than one Field Engineer, the manufacturer shall use his best efforts to schedule the Field Engineers' working hours in such a way that they overlap, if this will be a convenience to the Government and does not result in additional cost to the manufacturer.

Maintenance service will always be responsive to the needs of the Government.

ELECTRODATA
Division of Burroughs Corporation

DELIVERY

All items of equipment quoted in this schedule are current manufactured or installed and can be demonstrated as fulfilling specifications described above. All items can be shipped within 12 months from date order is accepted. Depending upon the complexity of the systems mix delivery may be as short as 90 days if required.

DELAYS - Liquidated Damages

If the contractor refuses or fails to make delivery of the materials or supplies on or before date specified or any extension thereof; the actual damage to the Government for the delay will be impossible to determine, and in lieu thereof the contractor shall pay to the Government, as fixed, agreed, and liquidated damages for each calendar day of delay in making delivery, \$100.00 per day per system for each day's delay beyond that specified, and the contractor and his sureties shall be liable for the amount thereof; provided, however, that the Government reserves the right to terminate the right of the contractor to proceed with deliveries or such part or parts thereof as to which there has been delay, and to purchase similar material or supplies in the open market or secure the manufacture and delivery thereof by contract or otherwise, charging against the contractor and his sureties any excess cost occasioned the Government thereby, together with liquidated damages accruing until such time as the Government may reasonably procure similar material or supplies elsewhere; provided further, that the contractor shall not be charged with liquidated damages or any excess cost when the delay in delivery is due to causes beyond the control and without the fault or negligence of the contractor, including, but not restricted to, acts of God or the public enemy, acts of the Government, fires, floods, epidemics quarantine restrictions, strikes, freight embargoes, unusually severe weather, and delays of a subcontractor due to such causes unless the contracting officer shall determine that the materials or supplies to be furnished under the subcontract are procurable in the open market, if the contractor shall notify the contracting officer in writing of the cause of any such delay, within 10 days from the beginning thereof, or within such further period as the contracting officer shall, with the approval of the head of the department or his duly authorized representative, prior to the date of final settlement of the contract, grant for the giving of such notice. The contracting officer shall then ascertain the facts and extent of the delay and extend the time for making delivery when in his judgment the findings of fact justify such an extension and his findings of fact thereon shall be final and conclusive on the parties hereto, subject only to appeal, within 30 days, by the contractor to the head of the department concerned or his duly authorized representative, whose decision on such appeal as to the facts of delay and the extension of time for making delivery shall be final and conclusive on the parties hereto.

ELECTRODATA
Division of Burroughs Corporation

PROGRAM TESTING

ElectroData will guarantee up to, and including, 40 hours of machine time at its installation in Los Angeles, California, or installations in other cities if and when installed, for the purpose of program testing and debugging. As an alternative, it will make available 80 hours on the customer's installation within the first two week period following acceptance without charge. If requested by the customer, a combination of the above alternatives can be worked out.

CONTRACTOR'S PROGRAMMING ROUTINES

The contractor maintains programming routines and publications. All automatic routines and libraries belonging to the company will be available to any Government agency using the equipment; but not necessarily those that have been developed by other commercial customers and which are not in the hands of the company for general distribution.

USE OF CONTRACTOR'S SYSTEMS SERVICE PERSONNEL

The contractor agrees to supply the services of qualified systems personnel to assist in the development of programs and routines to be used on the contractor's Data Processing equipment.

TRAINING OF GOVERNMENT PERSONNEL BY ELECTRODATA

The contractor agrees to train operating and training personnel, without extra cost to the Government, including the original staff at the time of the initial acquisition of a DATATRON and any additional staff that may be used for any subsequent addition to the system or the replacement of personnel due to attritional losses.

STAND-BY SERVICE

The contractor will provide stand-by service in Los Angeles, California, and other locations where it may later install data processing systems, or on customer's equipment, at the cost of ElectroData. This stand-by service, having to do with the conversion to new systems, is to be limited to a maximum of 80 hours of computer time. ElectroData reserves the right to schedule this at any time during the 24 hour period.

DISCONTINUING RENTAL

The Government may discontinue any machine 30 days after receipt by ElectroData of a written notice specifying the serial number of machine.

ELECTRODATA
Division of Burroughs Corporation

AIR-CONDITIONING

Air-conditioning and site preparation specifications for environmental conditions in which this equipment is to be operated will be provided in the form of ElectroData Installation Manuals. Air-conditioning is not an integral part of the system and must be provided by the customer. Heat throw off per unit is listed in the Preplanning and Installation Specifications (TM 4040).

CHARGES

Monthly charges are to commence in each case on the day following that on which each machine is installed and ready for use. Charges for fractional parts of a calendar month are to be computed at a rate of 1/30 of the monthly charges for each day the machines are installed ready for use, except that a machine installed to replace another machine will be billed for the number of days such machine is installed and ready for use through the last calendar day of the month, and the replaced machine will be billed for its monthly charge less 1/30 of such charges for each day billed for the new machine. This method of computation will be made for each calendar month of the contract year.

SITE PREPARATION

This information is provided in the Preplanning and Installation Manual (TM 4040).

OPTION TO PURCHASE

Rentals are creditable against the purchase at the rate of 40 per cent of all rentals paid on the equipment purchased up to a maximum of 60 per cent of the purchase price. All equipment is FOB, Pasadena. In addition, upon the termination of a contract by the Federal Government activity they will provide transportation back to the factory in Pasadena.

ELECTRODATA

Division of Burroughs Corporation

Purchase prices are included as a guide in applying option to purchase provision on page 5.

<u>DATATRON ELECTRONIC DIGITAL COMPUTERS</u>	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>DATATRON DIGITAL COMPUTER MODEL 204</u> Includes cabinet, plug-ins, and 12-inch magnetic drum with read-write heads for 4080-word memory. Also includes motor-generator unit, power control unit, and A-C line regulator. (Subject to availability)	119,200	3,715
<u>DATATRON DIGITAL COMPUTER MODEL 205</u> Includes cabinet, plug-ins, and 12-inch magnetic drum with read-write heads for 4080-word memory. Also includes Magnetic-Electronic Power Supply and Power Control Unit. This model includes all of the features found in the 204 Computer and is also designed for use with the 506 CARDATRON and the 360 Floating Point Unit.	135,000	3,900
<u>CONSOLE MODEL 402</u> Desk incorporates controls and keyboard used in remote operation of the computer; displays all registers; includes a Photoelectric Reader and a Tape Perforator unit which are housed in console unit. Photoelectric Reader: Reads a 6-hole code from Flexowriter tape at the rate of about 540 decimal digits per second. Photoreader Loop Adapter and Photoreader Reel Adapter may be used interchangeably. Tape Perforator: Perforates tape under control of the computer at the rate of about 20 decimal digits per second. (Subject to availability)	13,270	423
<u>CONSOLE MODEL 403</u> Desk incorporates controls and keyboard used in remote operation of the computer; displays all registers; provides housing for, but does not include, Photoelectric Reader and Tape Perforator units.	7,050	230

ELECTRODATA
Division of Burroughs Corporation

	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>CONSOLETTIE MODEL 405</u>		
Table-top unit, contains decimal keyboard and essential controls and indicators, but does not include neon-lamp displays of the registers.	1,980	70
<u>CONTROL CONSOLE MODEL 406</u>		
Desk incorporates controls and keyboard used in remote operation of the computer; displays all registers; includes a Photoelectric Reader housed in console unit (as described above) and a High Speed Tape Punch mounted in a separate cabinet.	14,210	490
High Speed Tape Punch: Perforates tape under control of the computer at the rate of about 60 decimal digits per second.		
<u>CONSOLE 409</u>		
Desk incorporates controls and keyboard used in remote operation of the computer; displays all registers; provides housing for both Photoelectric Reader and Tape Perforator units but includes Photoelectric Reader only (as described above).	11,230	362
<u>TYPEWRITER CONTROL UNIT MODEL 446</u>		
Usable with the 402, 403, 406 and 409 Consoles. 446 includes the stand which supports the 458 Flexowriter; contains external format control equipment and a relay translator.	4,560	137
<u>MODIFIED FLEXOWRITER MODEL 458</u>		
Incorporates the correct code for alpha-numeric print-out under the computer's control; both a Tape Punch and Tape Reader are attached to the typewriter. The Tape Reader may be used for slow in-put to the computer.	3,135	95

ELECTRODATA
 Division of Burroughs Corporation

	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>PUNCHED CARD CONVERTER UNIT MODEL 500</u>		
Permits use, under computer control, of an IBM type summary punch as input, and an IBM type tabulator or gang punch as output.	18,625	567
<u>CARDATRON MODEL 506</u>		
Buffer Control Unit & Auxiliary Power Supply	31,000	770
Input Station	22,500	560
Output Station (80 Character)	26,300	660
Output Station (120 Character) (maximum number of stations: seven)	27,550	690
	81,350	
Permits simultaneous high-speed communication between standard punched-card machines and the 205 DATATRON. Alphabetic, special, and numeric characters may be intermixed in any manner.		
<u>MAGNETIC TAPE CONTROL UNIT MODEL 543</u>		
Master control system which provides electronic control for up to ten Storage Units; either 544 Datareader or 560 Datafile.	25,000	750
<u>MAGNETIC TAPE CONTROL UNIT MODIFIED FOR DATATRON MILLISADIC COMPATIBILITY</u>		
A plant modification to the DATATRON Magnetic Tape system which will permit the use of MillisADIC-prepared tape as input to the DATATRON.	32,500	1,060
<u>DATAREADER MODEL 544</u>		
Magnetic Tape Storage unit includes read-write heads and tape drive mechanism and operates under control of the 543 Magnetic Tape Control Unit. Reel storage accommodates up to 2400 feet of tape. Capacity: maximum 400,000 ten-digit (decimal) words, addressed in 20-word blocks.	12,000	375

ELECTRODATA
Division of Burroughs Corporation

	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>DATAFILE MODEL 560</u>		
Multiple magnetic tapes for data storage under control of the 543 Magnetic Tape Control unit. Includes drive mechanism for fifty lengths of tape (one hundred logical tapes) stored in partitioned bin and brought out over a series of guide rods. Two recording heads can be servo positioned to any tape position. Up to 12,500 feet of tape in each Datafile. Capacity: maximum 2,000,000 ten-digit (decimal) words, addressed in 20-word blocks.	25,000	825
<u>FLOATING POINT CONTROL MODEL 360</u>		
Provides automatic floating point arithmetic for the operations of addition, subtraction, multiplication, and division.	21,200	725
<u>TAPE PERFORATOR AND VERIFIER MODEL 454</u>		
Includes a decimal keyboard, tape perforator, and tape reader. Used to prepare, verify, or automatically duplicate numeric perforated tape.	3,790	133
<u>EXTERNAL SWITCHING UNIT & OUTPUT SELECTOR MODEL 420</u>		
For use in certain external switching operations, such as employing both IBM type tabulator and summary punch as output for the 500 Punched Card Converter.	4,375	155
<u>EXTERNAL SWITCHING MODEL 421</u>		
Provides selective switching to eight external sources as directed by the computer program. Includes computer conversion kit and external relay closures, but does not include the Output Selector Unit for use with the 500 Punched Card Converter.	2,890	105
<u>NUMERIC CODE CONVERTER MODEL 460</u>		
Provides conversion digit by digit from one punched paper tape code to another. Includes a motorized tape reader, motorized tape punch, and two matrix cards (Burroughs to Teletype and Teletype to Burroughs Code). Matrix card prices for other codes will be quoted separately upon request.	3,680	110

ELECTRODATA
Division of Burroughs Corporation

<u>Purchase Price</u>	<u>Monthly Rental</u>
---------------------------	---------------------------

MANUAL TAPE PUNCH MODEL 453

Designed to accommodate standard Teletype and Commercial Controls Flexowriter tapes, the ElectroData Manual Tape Punch will correct up to a maximum of an eight hole code. Tape insertion is simplified by a tapered guide slot which, in conjunction with three feed hole pins on the punch base, accurately position the tape before starting the punching operation. This precision unit has particular application as a method for the insertion of information into an already prepared tape.

37.50	----
-------	------

ELECTRODATA
Division of Burroughs Corporation

E SERIES ELECTRONIC DIGITAL COMPUTERS

	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>ELECTRONIC DIGITAL COMPUTER MODEL E-102</u>		
Includes Magnetic Drum Memory of 220 words of 12 digits each, 16 removable pinboards for external programming (8 pinboards may be used with E-102 at one time) and Keyboard Printer (Sensimatic Model F1) with 11 column full keyboard for input and 12-digit, semi-ganged printer operating at 24 digits per second for output. Computer is mounted on casters.	38,325	1,000
<u>ELECTRONIC DIGITAL COMPUTER MODEL E-101</u>		
Same as E-102 except with Magnetic Drum Memory capacity of 100 words of 12 digits each. (Subject to availability)	35,100	915
<u>KEYBOARD PRINTER MODEL F2</u> (To replace F1 on E-101 and E-102)		
Same as F1 except includes an additional level of control through switches actuated by carriage position.	250*	7*
<u>KEYBOARD PRINTER MODEL F6</u> (To replace F1 on E-101 and E-102)		
Same as F1 except includes ten mechanical accumulators and an additional level of control through switches actuated by carriage position.	2,150*	60*

*Add to Computer Rental

ELECTRODATA
Division of Burroughs Corporation

	<u>Purchase Price</u>	<u>Monthly Rental</u>
<u>"H" INSTRUCTIONS</u>		
H-4, H-5 and H-6 instructions optional on E-101 (standard on E-102). Enables setting of address modification switches according to least significant digit in the accumulator.	265	7
<u>PUNCHED PAPER TAPE INPUT MODEL A531</u>		
Reads data and instructions from either 8 channel or 5 channel tape at 20 characters per second. Will accept tape prepared on equipment similar to the Flexowriter (FPC 8-Special E-101) or the Burroughs Sensimatic with punched tape output for 8 channel code, or Teletype for 5 channel code.	3,765	100
<u>PUNCHED PAPER TAPE OUTPUT MODEL A516</u>		
Perforates paper tape under the control of the computer for either 8 channel or 5 channel tape codes at approximately 30 characters per second.	3,765	100

ELECTRODATA
 Division of Burroughs Corporation

COMPONENT PARTS AND SUPPLIES FOR
 E SERIES ELECTRONIC DIGITAL COMPUTERS

<u>Symbol</u>	<u>Description</u>	<u>Purchase Price</u>	<u>Monthly Rental</u>
3ES9	Pinboard Set (8) (Includes 8 covers & 400 pins)	215	10
1-2ES9	Pinboard)		
1-ES17	Cover) 1 Pinboard Set	27	2
50-ES18	Pin)		
ES18	Pins	.10/ea	
ES77-5	Punched Paper Templates	.10/ea	

SPECIAL CARRIAGES AND PLATENS

22" CARRIAGE FOR KEYBOARD PRINTER (any model) (replaces standard 18" carriage)	173	5
15" CARRIAGE FOR KEYBOARD PRINTER (any model) (replaces standard 18" carriage)	No Charge	

PLATEN SPLIT FOR KEYBOARD PRINTER

For 15" carriage: split 3", 5" or 7½" from either end.	90	3
For 18" carriage: split 3 5/8", 5", 6", 8" or 9" from either end.	90	3
For 22" carriage: split 3 5/8", 6", 9" or 11" from either end.	90	3
For 15", 18" or 22" carriage: any split other than above but not less than 3" from either end.	140	4

Administrative Services
 Pasadena
 FAS/ea
 5/14/57

