



Burroughs

E101

A few typical applications

Engineering

Aircraft and marine lofting
Load and stress calculations
Wing skin flat pattern
Vibration and energy damping
Wind tunnel test data reduction
Bearing load calculations
Cam design
Electric motor design
Plate-to-plate distillation column design
Turbine performance calculations

Statistics

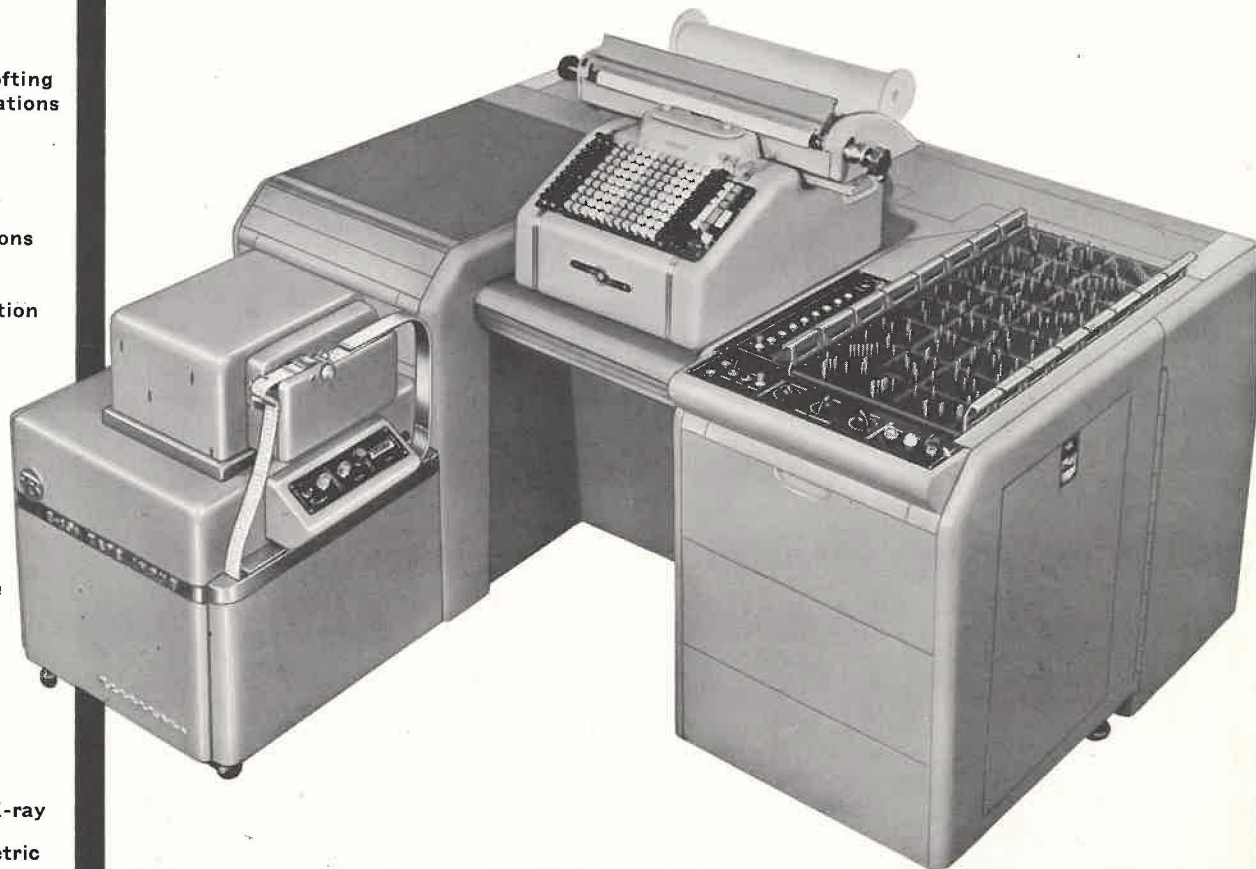
Means, variances, standard deviations
Simple, partial and multiple correlation coefficients
Auto-correlation coefficients
Analysis of variance

Research

Fourier analysis for X-ray diffraction
Eigenvalues of symmetric matrices
Matrix inversion
Tables of special mathematical functions

Business

Loan accrual
Asset shares calculation
Special utility billing
Premium computations
Train operating statistics
Retrospective time and budget reports
Branch office sales quota calculation
Securities analysis
Spreading overhead costs
Building assessment valuation
General interest tables
Pension plan rate tables
Loan reduction payment schedules
Material control



Here's something completely new to electronic computation. It's a desk-size computer that's as simple to operate as a conventional desk calculator—yet performs the automatic operations of a large-scale computer. Lowest in price of all general purpose electronic digital computers, the E 101 is designed to solve those problems that are too complex for efficient solution on desk calculators, and yet are too small for economical solution on giant "brains." What's more, it opens the door to answering problems whose answers are merely guessed at today.

NOTE: All components completely self-contained in a single desk size unit, 60 inches wide by 38 inches deep.

E101 SPECIFICATIONS

INPUT:

11-column full keyboard of proven Burroughs bookkeeping machine; data may also be entered automatically via optional tape input unit.

OUTPUT:

2 print cycles per second (24 digits per second); completely flexible format control on rolls or forms up to 18 in. wide; front-feed insertion for unit documents, duplicating masters, etc.

NUMBER SYSTEM:

Decimal number system; word length of 12 digits (plus sign).

DATA STORAGE:

100-word data storage capacity on magnetic drum; programmed split-register storage; 220-word data storage available as optional feature.

PROGRAM STORAGE:

Program stored by pin settings in 8 removable pinboard units; pins can be dropped thru the marked holes in paper templates; templates provide permanent program storage; instructions may also be read from optional tape input unit.

PROGRAMMING:

Machine language of 29 single-address instructions; 128 program steps; 2 automatic address-modification counters with programmed limits; unconditional and 2 conditional transfer instructions.

SPEED:

Addition and subtraction at 20 per second, multiplication and division at 4 per second (including access times).

OPTIONAL TAPE INPUT:

Punched Paper Tape Input Unit reads data and instructions from 5-, 6-, 7-, or 8-channel tape at 20 characters per second. Optional at extra cost or available on rental basis.

OPTIONAL EXPANDED MEMORY:

Expanded Memory provides a total of 220 words of internal data storage. Optional at extra cost or available on rental basis.

Burroughs E101 can be purchased, rented or rented with an option to purchase.

For further details, write:

Burroughs Corporation

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