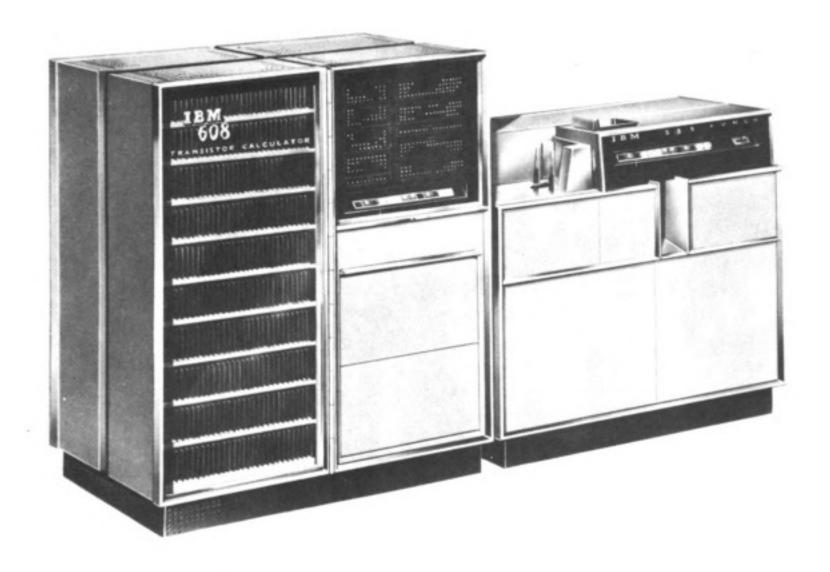
### MANUFACTURER

International Business Machines Corporation



Picture by International Business Machines Corporation

### APPLICATIONS

Manufacturer Business and scientific computing.

# NUMERICAL SYSTEM

Internal number system Decimal digits per word Instructions used Arithmetic system Instruction type

Number range

Binary coded decimal

12

Fixed point One or two address Variable, depending on

program

## ARITHMETIC UNIT

Time Microsec

Add (exclud. stor. access) 220

Mult (exclud. stor. access) 11,000 average
Div (exclud. stor. access) 13,420 average
Construction Transistors and cores
Basic pulse repetition rate 100 KC

Arithmetic mode Parallel Timing Synchronous Operation Sequential

#### STORAGE

Media Words Digits Access
Magnetic cores 40 360 220

Each word may be split into a 3 digit and 6 digit

#### INPUT

Media Card Reader-Punch

word with separate signs.

Speed 155 cards/min

## OUTPUT

Media Card Reader-Punch Speed 155 cards/min

### CHECKING FEATURES

Checking possible through control panel wiring.

# POWER, SPACE AND WEIGHT

Power, computer 2.3 KVA

Space, computer 160 cu. ft. 30 sq. ft.

Weight, computer 2,400 lbs

### PRODUCTION RECORD

Models have been produced. None are in customer service.

## COST, PRICE AND RENTAL RATE

Rental rates of basic system \$1,600/month and up. Rental rate includes engineering maintenance and parts.

### ADDITIONAL FEATURES AND REMARKS

Manufacture:

IBM's new "608", the first completely transistorized calculator for commercial applications, operates without the use of a single vacuum tube.

Transistors -- tiny germanium devices that perform many of the functions of conventional vacuum tubes -- make possible a 50% reduction in computer-unit size and a 90% reduction in power requirements over a comparable IBM tube-model machine. They are mounted, along with related circuitry, on banks of printed wiring panels in the 60%.

The machine's internal storage, or "memory", is made up of magnetic cores -- minute, doughnut-shaped objects that can "remember" information indefinitely, and recall it for use in calculations in a few millionths of a second.

For IBM, the 608 marks the achievement of production techniques for the manufacture, on a large scale basis, of computing and data processing equipment combining transistors, printed circuits and other forms of miniaturization.