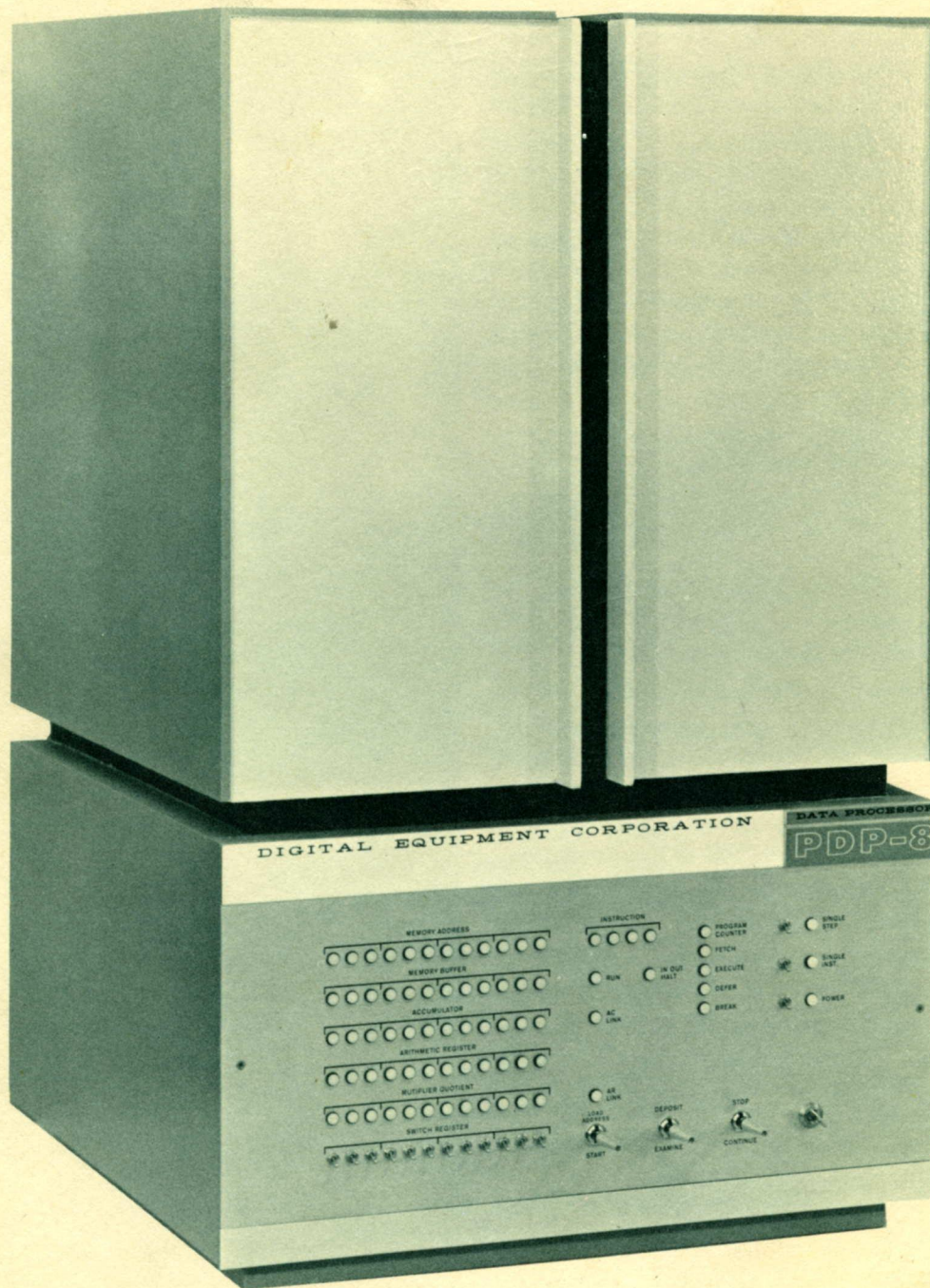


PDP-8

THE \$18,000 DIGITAL COMPUTER



DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

FEATURES

Customer Tested Software — already used in over 70 PDP-5 installations

One-Pass FORTRAN Compiler — now ready and working (includes Dynamic Error Correcting mode for tape modification without recompiling)

Integrated All-Silicon Circuits — from Digital's popular new FLIP CHIP™ Module line

1.6 μ sec Cycle Time — gives the PDP-8 an add time of 3.2 μ sec for a maximum computation rate of 314,000 additions per second

Fast Throughput — with an input-output transfer rate of 625,000 words or 7½ million bits per second

Fully Parallel Arithmetic Operation — simplifies maintenance and increases reliability

Continuous Display of Active Registers — including memory address and memory buffer registers, accumulator register and Link, instruction register, program counter, and optional multiply/divide register

Economical DECTape System — plus IBM-compatible tape system and magnetic drum system for easy memory expansion

Flexible Mechanical Design — allows table-top operation or mounting in any 19-inch rack

Simplified I/O Device Connection — through an input/output bus system without changes to the processor

Micro-Programmable Instructions — include 49 operate instructions plus input/output commands and automatic multiply/divide instructions

Indirect Addressing — simplifies subroutine linkage

Auto-Indexing — facilitates program searching, multiple input/output list processing, and sorting operations

Single Step Instruction Modes — permit machine state to be examined at each step of the program

Program Interrupt — permits an input/output device to interrupt an operating program

High Speed Data Interrupt — enables transfer of 12-bit words to or from memory at 1.6 μ sec per word

Buffered Input/Output — allows input/output devices to operate simultaneously at their maximum speed (central processor does not wait for device to complete its cycle)

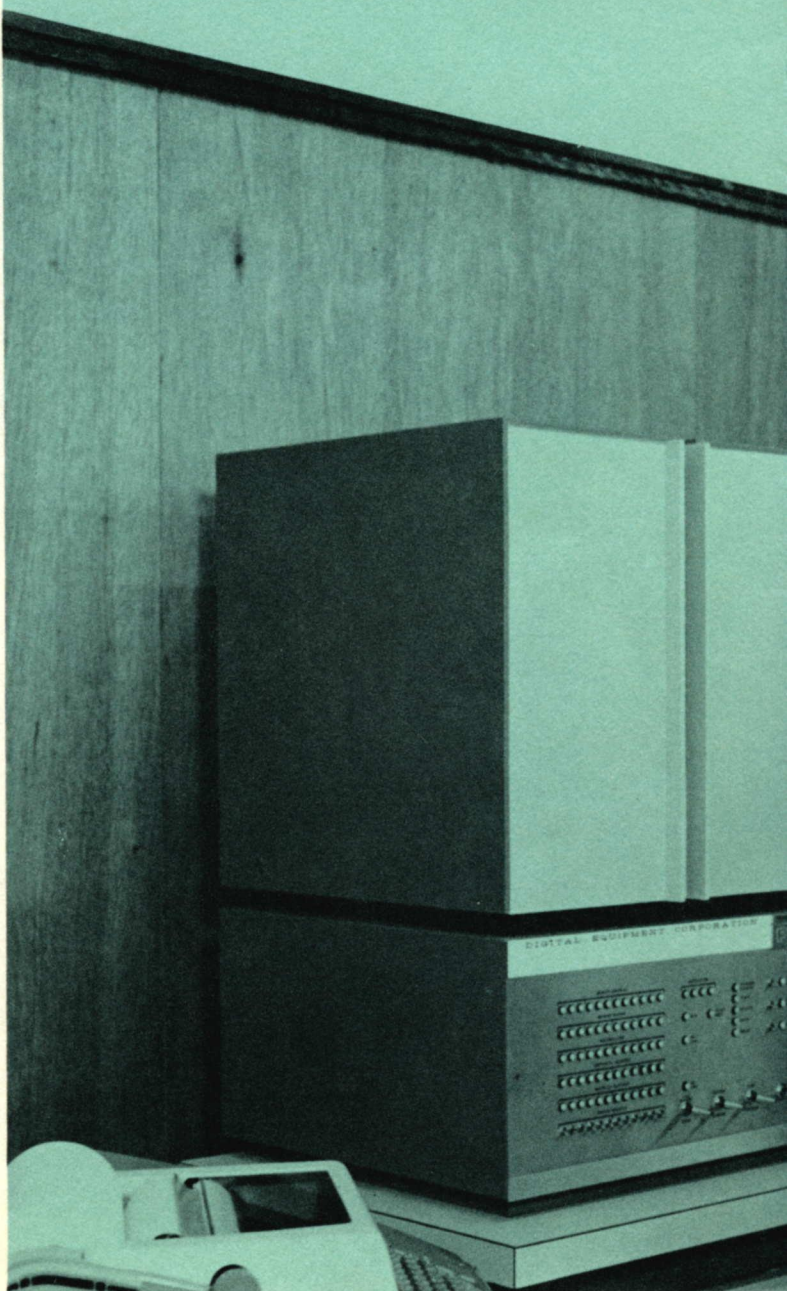
FLIP CHIP is a trademark of Digital Equipment Corporation

PDP-8

The latest in a small, low-cost computer for real-time applications

PDP-8, it has all the desirable features of the 5 plus features at a much lower cost. These improvements result from the use of FLIP CHIP Modules.

A single address, 12-bit, fixed word-length machine, the PDP-8 has a "Link Bit" to assist multiple precision. It has an expanded complete cycle time of 1.6 microseconds and a maximum instruction rate of 314,000 per second. The complete software package, which includes a FORTRAN compiler, has been fully field tested in over 70 computer installations.



In addition to the Programmed Data Processor line is a high speed, general purpose digital computer designed for time applications. As the successor to the popular PDP-7, it offers faster operating speed and more compact packaging at the use of Digital's new integrated circuit silicon FLIP

The PDP-8 uses 2's complement binary arithmetic with expandable random-access magnetic core memory with a maximum computation rate of 314,000 additions per second. It includes a FORTRAN compiler and an on-line debugging routine, has 128 registers.



BASIC \$18,000 CONFIGURATION INCLUDES

Central Processor — registers, information handling elements and operator console in table-top cabinet or rack-mounted

Complete Software Package — including FORTRAN compiler, symbolic assembler, DDT on-line debugging routine, SED on-line symbolic tape editor, floating point arithmetic, and utility routines

4096-Word Random Access Core Memory — expandable to 32,768 words

Full Duplex TTY Model ASR-33 — provides keyboard, pageprinter, paper tape punch, and paper tape reader facilities

Choice of Packaging — for table-top operation or panel mounting at no difference in price

Auto-index Registers — eight separate index locations for address modification

Wired-in A/D Converter — can be implemented economically by addition of required modules

Liberal Warranty — on standard equipment and options

Free Programming School — includes basic maintenance instruction

Users Group Membership — offers opportunity to share in supplementary software development by hundreds of PDP users

FIELD PROVEN STANDARD OPTIONS

- Automatic Multiply/Divide
- Real-time Clock
- DECtape System
- IBM-compatible Magnetic Tape System
- Drum Systems
- Cathode Ray Tube Displays
- Oscilloscope Displays
- Incremental Plotters
- Light Pen
- High Speed Paper Tape Punch and Reader
- Card Punch and Reader
- Line Printers
- A/D and D/A Converters
- Analog Multiplexers

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