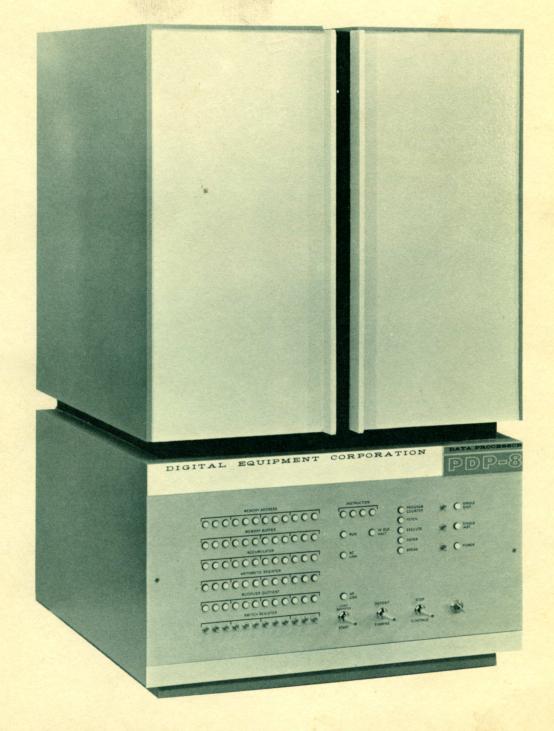
PDP-8

THE \$18,000 DIGITAL COMPUTER



DIGITAL EQUIPMENT CORPORATION . MAYNARD, MASSACHUSETTS

ATURES

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 CHIPTM 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 $1.6\,\mu$ 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)

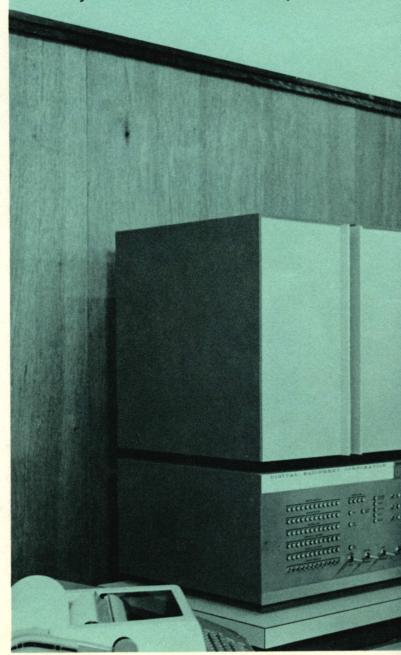
FLIP CHIP is a trademark of Digital Equipment Corporation

PDP-8

The lates a small, for real

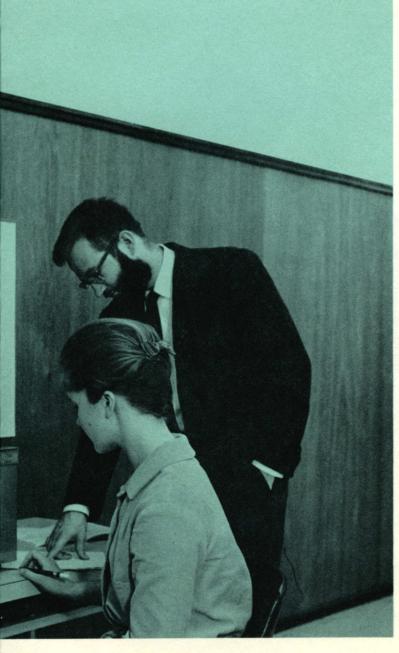
PDP-5, it has all the desirable features of the 5 plus for a much lower cost. These improvements result from the CHIP Modules.

A single address, 12-bit, fixed word-length machine, that a "Link Bit" to assist multiple precision. It has an expromplete cycle time of 1.6 microseconds and a maxim. The complete software package, which includes a FO been fully field tested in over 70 computer installation.



addition to the Programmed Data Processor line is igh speed, general purpose digital computer designed time applications. As the successor to the popular ster operating speed and more compact packaging at e use of Digital's new integrated circuit silicon FLIP

e PDP-8 uses 2's complement binary arithmetic with indable random-access magnetic core memory with a m computation rate of 314,000 additions per second. TRAN compiler and an on-line debugging routine, has



\$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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