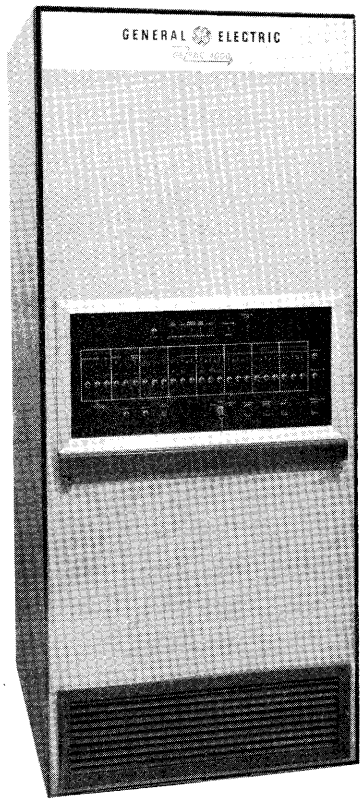
GE PAC 4000

GENERAL ELECTRIC PROCESS AUTOMATION COMPUTER

FORTY FORTY main frame



Computer Type: Binary, fixed point

Circuitry: Solid state, silicon semiconductors throughout

Environment: 32 to 131°F; 5 to 95% RH

Memory: Temperature-regulated magnetic core
- Capacity: 2048 to 16,384 words
- Cycle Time: 5 μs

Mass Memory: Magnetic drum
- Capacity: 16,386 to 262,144 words
- Access Time: 3.5 ms avg
- Transfer Rate: 61.5K char/sec
- Type: Magnetic disc
- Capacity: 262K words/disc
  1 to 16 disc/control
- Access Time: 5 ms/track
  Rotational delay 50 ms
- Transfer Rate: 163.8K char/sec

Word Size: 24-bits plus parity

Instruction Execution Times:

Add (full)	16 μs	I/O Word Rate	200 KC
Multiply	300 μs	Levels of Interrupt	to 128
Full Shift	16 μs	Lines of Interrupt	to 2000
Logical	16 μs		

No. of Instructions: 22 basic plus I/O, general, bit logic and testing

Words/instr:	One
Bit/char. manipulation	Yes
Index registers	Seven
Quasi commands	Many

I/O Equipment:

Typewriters	15 cps
Paper tape readers	100/200 cps
Paper tape punch	120 cps
Card readers	30/to/300/400 cpm
Card punch	100 cpm
Line printers	120 col-300 lpm 12 col-1200 lpm
Magnetic tape Transfer rates	37.5/75/150 ips 7.5 to 120 kc
Operator consoles	Many standard models available
Digital clock	Memory clock in hours, minutes, seconds
Display devices	CRT, trend recorders, annunciators

Process Communications:

Analog Inputs	8 to 2048 pts/control 2 & 3 wire 40 to 200 pts/sec.
Analog Accuracy	.1% of full scale
Analog Range	10 millivolts to 10 volts
Contact Inputs	Groups of 20 at computer execution rates
Pulse Inputs	Any number at computer execution rates
Analog Outputs	to 64 or more of up to 12-bit resolution
Contact Outputs	Groups of 16

Numerous other interface items as required by processes.

2/66 (1M) Litho in USA

GENERAL ELECTRIC

PROCESS COMPUTER SECTION

PHOENIX, ARIZONA