XEROX

1108
Scientific Information Processor

The Xerox 1108 enables state-of-the-art exploratory programming on an affordable, high-performance personal computer. The Xerox 1108 reflects 15 years of research and development in programming environments and workstation, network, and electronic printing technology. Being fully compatible with Xerox system integration standards, the Xerox 1108 can communicate with an expanding line of print, file, and communication servers. Advanced Interlisp-D is fully supported, both as an integrated program development environment and as a base for the efficient execution of application programs in a variety of areas.

User Interfaces

The Xerox 1108 provides an affordable dedicated personal computer with a high-resolution display. Interlisp-D allows the rapid implementation of highly responsive user-oriented systems. Together, they constitute an ideal environment for producing user-friendly, responsive, front-end systems to provide sophisticated user interfaces to other, possibly remote, applications systems.

Text Manipulation

One important area of interactive systems is text manipulation. The Xerox 1108 with Interlisp-D provides an excellent, low cost environment for building special purpose text processing, formatting, and printing systems. The high-resolution display can be used to display high-quality text in multiple fonts.

Knowledge Based Systems

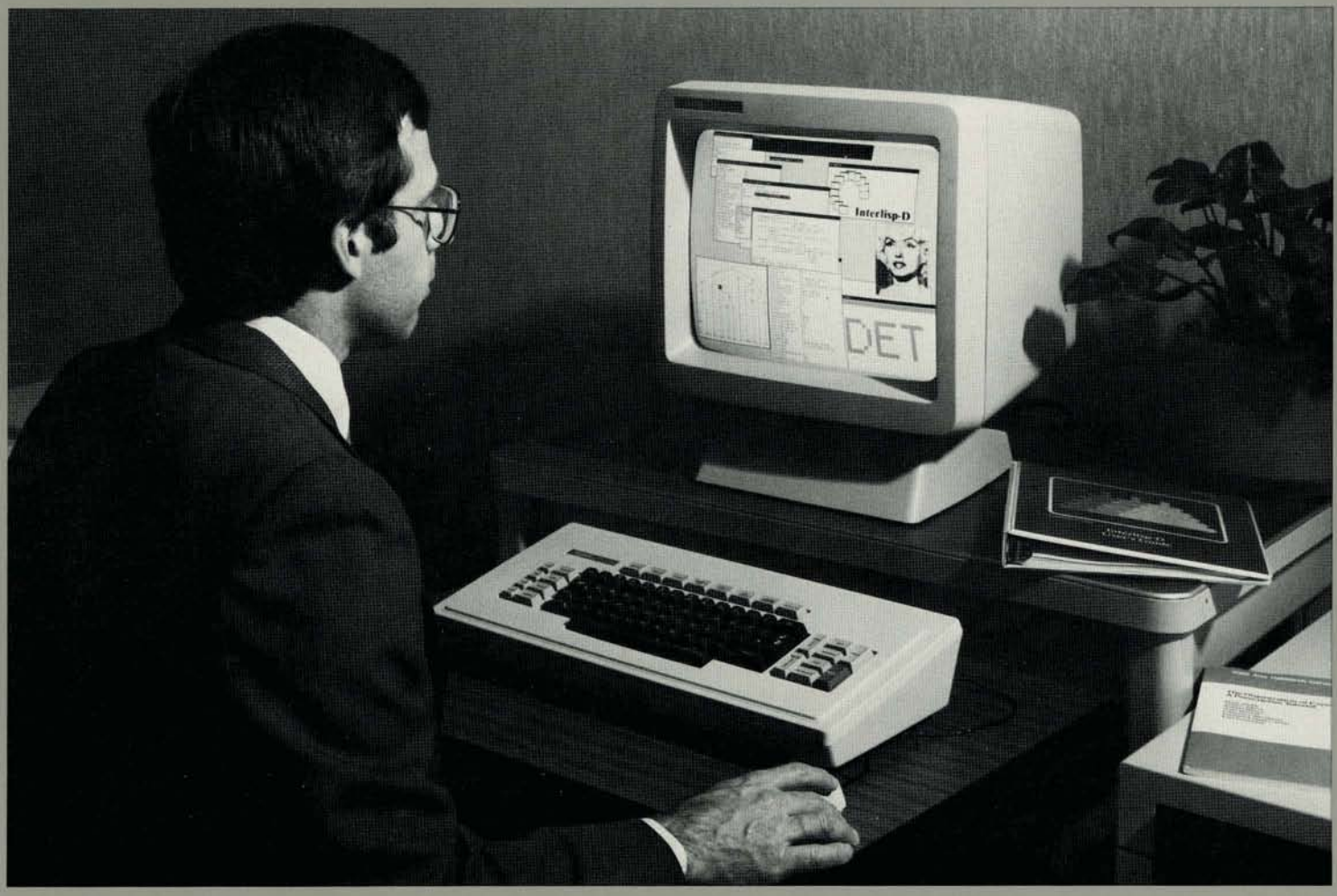
Originally developed for research on artificial intelligence, Interlisp-D is ideally suited for the development of knowledge based, or expert systems. The Xerox 1108 provides the resources and processing power that make large applications truly practical. Until now, such systems have existed mainly in the laboratory. The Interlisp-D software in conjunction with the 1108 workstation, delivers these powerful systems in an end-user environment at very low cost.

Computer Aided Design

One rapidly-growing application area is the use of powerful systems for VLSI design and other CAD tasks. Interlisp-D provides an ideal system for such applications.

Communications

Customized electronic mail systems, and other communications applications, are straightforward to implement using sophisticated network communications and display facilities of Interlisp-D.



Processor
1.0 Mbytes main memory
Expandable to 1.5 Mbytes
8 Mbytes virtual memory
137 ns microinstruction cycle time

Local Storage
10 Mbyte rigid disc, 40 Mbyte rigid disc or
29 Mbyte rigid disc
1.2 Mbyte double-sided, double-density floppy disc drive

Communications
10 Mbyte Ethernet controller (IEEE 802)
RS232C serial port 9600 Baud (optional)

Display
Large format CRT display (17" diagonal)
High resolution bitmap (1024 x 808 pixels)
Usable viewing area : 12.8" wide by 10" high
Refresh rate: 38.5 frames per second, interlaced
Distance from processor: up to 9 feet

Keyboard
78 keys, 24 function keys
Distance from processor: 8 feet

Pointing Device
Mouse

Software
Advanced Interlisp-D Programming Environment

The Xerox 1108 provides a dramatic extension of Interlisp's capability in a personal computer environment.

Software highlights:

- Interactive graphics
- Display editor and inspector
- Debugging tools
- Text editing
- Direct microcode support
- Deep binding
- CDR encoded 32-bit CONS cell
- Transaction garbage collection
- Raster scan graphics
- Communications software

Electrical Requirements

Processor/Display

Voltage:	115 VAC
Frequency:	60 Hz
Current:	12 Amps
Receptacle:	Two pole, three wire, grounded duplex

Operating Environment

Temperature:	50 - 90^{O}F
Relative Humidity:	15 - 80%

Size

Processor
12" wide x 25" high x 30" deep (10 Mbyte)
24" wide x 25" high x 30" deep (29 Mbyte)

Display unit
17" wide x 19" high x 15" deep

Keyboard
20" wide 3.5" high x 9" deep

Pointing device (Mouse)
2.5" wide 1.5" high x 3.5" deep

Service
Xerox Special Information Systems provides service support through Xerox National Service for the 1108.

Training
Xerox Special Information Sytems offers user training at customer sites and at various Xerox locations.

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