

XEROX

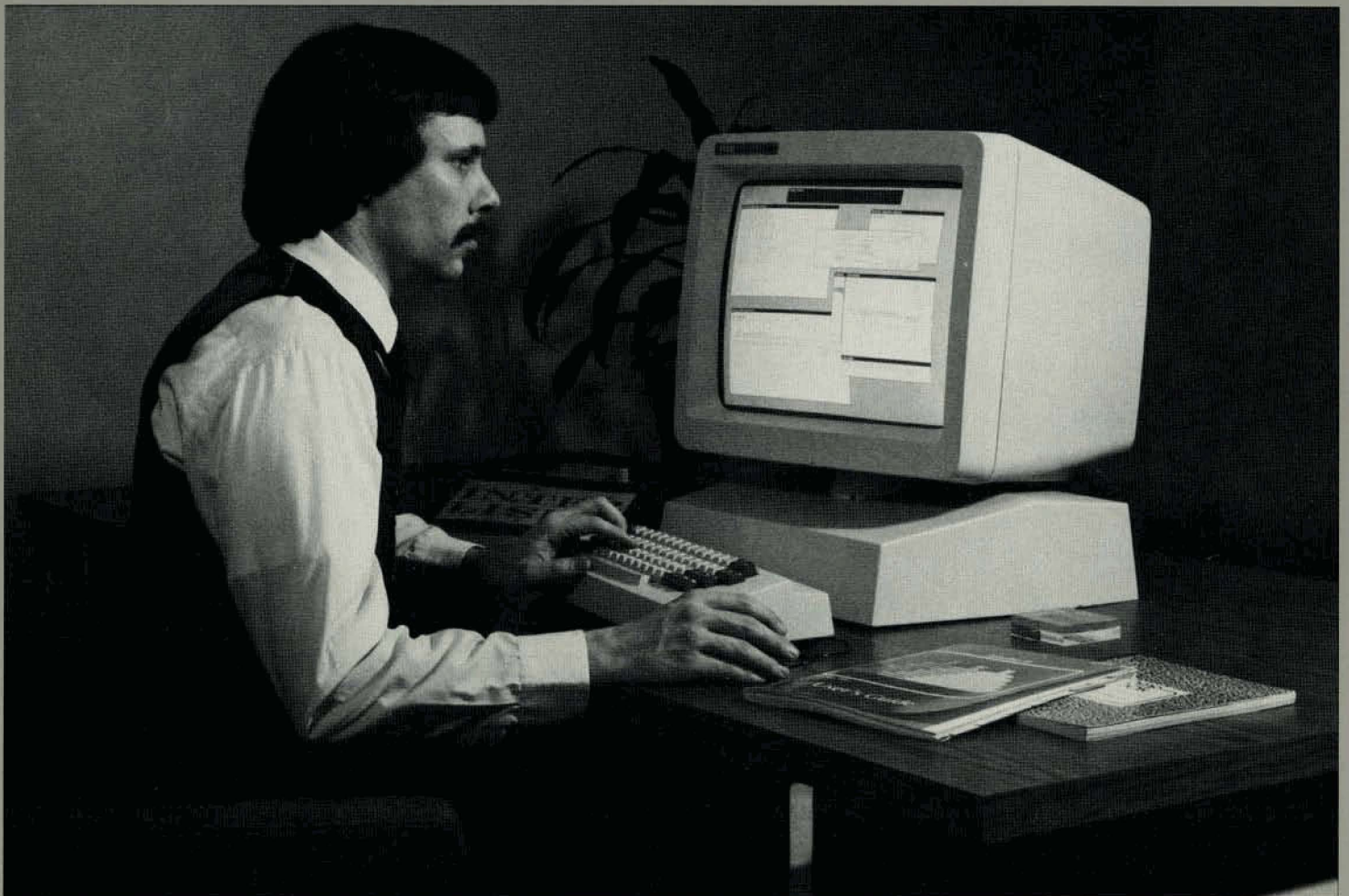
1100 Scientific Information System

The Xerox 1100 provides a unified environment for all phases of programming, including interactive facilities for program writing, editing, executing, debugging, sharing, filing and documenting. Interlisp-D, a personal machine implementation of Interlisp, takes advantage of the personal machine features of the Xerox 1100 and allows the delivery of end-user applications in areas such as interactive symbolic computation, computer aided design, knowledge engineering, and expert systems. The 1100 also features a large, high-resolution display, keyboard, and mouse cursor control to provide a highly efficient user interface.

The Xerox 1100 is a dedicated personal computer workstation that supports the Interlisp-D and Smalltalk-80™ programming environments. Both environments take full advantage of the personal machine features of the 1100, such as the high resolution bitmapped display and the mouse, to facilitate exploratory programming, rapid prototyping, and advanced system development.

Interlisp-D, a powerful, personal implementation of the Interlisp dialect of LISP, combines the powerful programming tools of Interlisp and the personal machine features of the Xerox 1100. While retaining the facilities that have made Interlisp widely used in research and development, the Xerox 1100 also makes it feasible to deliver Interlisp-based end-user applications in areas such as interactive symbolic computation, computer aided design, knowledge engineering, and expert systems.

The Smalltalk-80 System is a personal, integrated, interactive environment ideally suited to exploratory programming and prototype development. The result of over 10 years of research and development at the Xerox Palo Alto Research Center, it uniformly applies an object-oriented point of view to the design and implementation of software systems. Typical applications of Smalltalk-80 include user interface design, simulation and modeling, and graphics-oriented applications. The Xerox 1100 implementation is notably the first commercially available Smalltalk-80 System.



Processor

4M words (8 Mbytes) virtual address space
1 - 2 Mbytes main memory
200 ns microinstruction cycle time
Rigid disc, capacity 23 Mbytes formatted
(29 Mbytes unformatted)

Serial I/O port:

RS232C

Parallel I/O port:

8 output lines, 5 input lines
8 bidirectional tristate lines

Local network interface

Display

Large format CRT display (17" diagonal)
High resolution bitmap (1024 x 808 pixels)
Usable viewing area: 12.75" wide by 10" high
Refresh rate: 38.5 frames per second, interlaced
Distance from processor: up to 250 feet

Keyboard

64 keys, both downstroke and upstroke sensed

Pointing Device

3-button mouse

Communications

Local network controller, transceiver, and cable connector
Xerox 1100s have been networked with DEC system-10/20s,
DEC VAXs, and other mainframes.

Software highlights:

- Direct microcode support
- Deep binding
- CDR encoded 32-bit CONS cell
- Transaction garbage collection
- Raster scan graphics
- Communications software

Service

The Xerox 1100 is designed for reliable field deployment. Modular design and extensive diagnostics simplify maintenance. In addition, the 1100 is backed by Xerox Special Information Systems service and parts support.

Training

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

Size

Processor

19" wide x 23" high x 28" deep

Display unit

17" wide x 19" high x 15" deep

Keyboard

17" wide 3.25" high x 15" deep

Pointing device (Mouse)

2" wide 2.5" high x 3.25" deep

Weight

Processor

200 lb

Display Unit

60 lb

Keyboard

5 lb

Power

Processor

115V, 60 Hz, 10 amps

Display

115V, 60 Hz, 1 amp

XEROX

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