

# X-Windows for IBM DOS

## **Product Description**

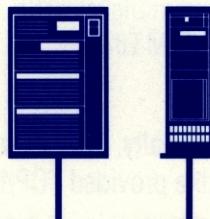
IBM X-Windows for IBM DOS (X on DOS) is a software product that transforms DOS-based personal computers into powerful X Window System display servers. It provides full support for multiple X applications, sophisticated window and desktop managers and any fonts necessary for a complete X Windows environment - all this while allowing the user to maintain access to DOS applications without exiting the server.

With X on DOS you can run multiple programs concurrently on one or more host computers from a single PC workstation. Operations are performed through a consistent graphics interface, so you can quickly learn to work in a multiple-computer environment. X on DOS places the power of a distributed computing network at your fingertips without requiring extensive training.

X on DOS supports a variety of standard personal computers, graphics adapters and network options, so you can configure the most cost-effective workstation for your application. Since X on DOS is based on MIT's X Window System Version 11 Release 3, X on DOS can be used with a wide range of X Window System applications.

## **Product Highlights**

X on DOS has a comprehensive set of features that allow you to bring the full power of an X workstation to an inexpensive personal computer.



### **Utilizes Standard, Existing Hardware**

All you need is a standard PC or PS/2. This protects your current investment in expensive hardware technology.

### **Ability to Run DOS and X Applications on Same Machine**

X on DOS provides local DOS functionality not available on X Terminals.

### **Extended Memory Support**

X on DOS fully implements sophisticated window and desktop managers along with full-scale X applications.

### **Extensive Graphics Adapter Support**

X on DOS supports over 30 EGA, VGA and Hercules graphics adapters, including the IBM 8514-A.

### **Quick Access to Local DOS Applications**

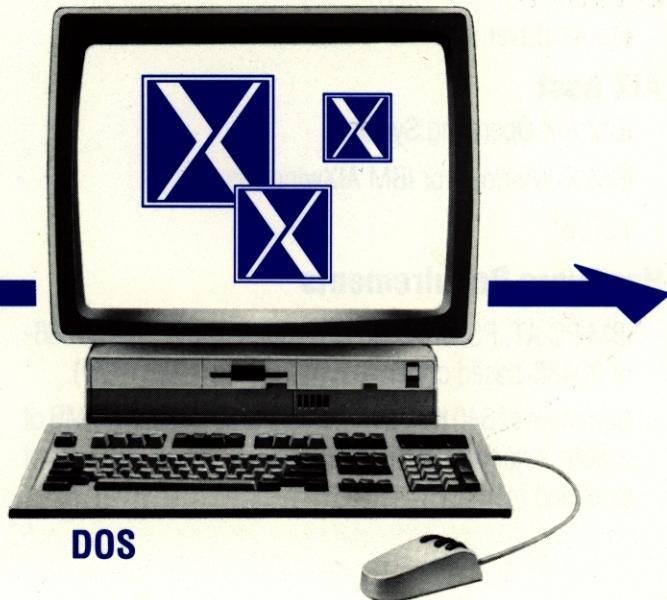
With X on DOS, you can suspend the X Server to run local DOS applications and then return to the server to resume your X session.

### **TCP/IP for DOS**

X on DOS includes TCP/IP for DOS; a compact, efficient TCP/IP implementation tailored specifically for X on DOS. TCP/IP for DOS provides all networking protocols and utilities necessary to run X on DOS.

### **Compatibility with AIX Access for DOS Users (AADU)**

AADU allows the X on DOS server to access a remote file system on which the user can store shared fonts and other utilities. All of IBM's products are designed to work in concert to provide the most comprehensive DOS-AIX connectivity solution available today.



## **Single Command Start-up with Xcall/Xanswer Programs**

X on DOS's start-up programs simplify start-up procedures. To further simplify the start-up procedure, the X on DOS server provides a built-in version of the RSH/RExec commands.

## **Memory Monitoring**

X on DOS automatically notifies the user of low memory conditions and can display memory usage and availability for server and DOS applications.

## **Virtual Screen Support**

X on DOS makes it possible for you to work in, and scroll over an area larger than the actual screen size.

## **Wide Variety of Supplied Fonts**

You may choose to implement some or all of the font options, including Open Look GUI fonts.

## **Two- and Three-button Mouse Support**

With X on DOS, two-button mouse users can access applications requiring a three-button mouse.

## **Software Requirements**

### **PC**

- MS-DOS or MS/PC-DOS, version 3.1 or later
- Mouse driver software

### **AIX host**

- IBM AIX Operating System
- IBM X-Windows or IBM AIXwindows
- TCP/IP

## **Hardware Requirements**

- IBM PC AT, PS/2, or 100% compatible 80286-, 80386- or 80486-based computers (minimum 2 MB RAM).
- Minimum of 640 KB base memory plus at least 1.4 MB of usable extended memory (supports up to 16 MB of extended memory).

- Minimum of one 5.25" high-density or one 3.5" high-or low density diskette drive.
- A fixed disk drive with at least 3 MB of space available.
- A two- or three-button mouse (three-button mouse recommended).
- An IBM 8514-A, EGA, VGA, or Hercules adapter.

## **Network Requirements**

- The X on DOS server is designed for use within IBM Token-Ring or Ethernet networks running TCP/IP. An X Window System (Version 11.2 or 11.3) with X application programs (clients) must be available on at least one of the remote host computers on your network.
- IBM's TCP/IP for X on DOS is provided. The following network adapters are supported:

### **AT Bus:**

- 3Com Etherlink (3C501)
- 3Com Etherlink II (3C503)
- 3Com Etherlink II+ (3C505)
- Digital Equipment DEPCA
- IBM 4 & 4/16 Token-Ring ISA
- Intel PC586
- Ungermann-Bass NIC ISA
- Western Digital 8023/MC
- Western Digital 8003
- Western Digital 8013
- XIRCOM Ethernet

### **MicroChannel Bus:**

- 3Com Etherlink/MC (3C523)
- IBM 4 & 4/16 Token-Ring
- Ungermann-Bass NIC
- Western Digital 8023/MC

Optionally, the following networks may be utilized in place of the provided TCP/IP:

- FTP Software's PC/TCP, Release 2.03 or higher
- Excelan's LAN WorkPlace Network Software for PC DOS TCP/IP Transport System
- AT&T's StarGROUP Software LAN Manager Server Program (NETBIOS), Release 3.2.2 or higher

**For Information, call 1-800-522-8638**

Refer to IBM programming announcements for IBM supported functions.