Operating System Installation

The FastTrak adapter operates in various operating systems through either onboard BIOS or software drivers. These operating systems are fully supported by the FastTrak onboard BIOS driver:

- DOS 5.x and above
- Windows 3.1x
- Windows for Workgroups 3.1x operation

These operating systems have additional driver support provided on the Promise diskette.

- NetWare 3.1x, 4.0x, 4.1
- OS/2 Warp 3.0, 4.0
- Windows 95
- Windows NT 3.5x, 4.0

Mirroring Drives in Existing Installations

You can add Fault Tolerance to existing system drives with a FastTrak adapter. A mirrored disk array pair can be formed by duplicating the original drive to a second drive using the ABC setup utility. Follow the steps in Chapter 4.

The following sections detail installation instructions for particular operating systems.

DOS

The DOS operating systems are supported by the FastTrak onboard BIOS. No additional drivers are required.

For first time installation, follow the standard methods of installing the DOS operating system onto your hard disk:
Place "Disk 1" of your DOS installation diskettes into the A: drive and type "A:\SETUP" at the A: prompt. Follow the normal DOS installation procedures and refer to your DOS manual for additional details. **OR**
Place a DOS bootable diskette that contains both DOS FDISK.EXE and FORMAT.COM into the A: drive. At the A: prompt, run your DOS FDISK

utility program. Create a Primary partition onto the hard disk. The utility program will continue until it asks you to put a DOS bootable floppy into the system and press a key to restart the system. After rebooting to a DOS bootable floppy, run the DOS FORMAT command with the /S - type "FORMAT C: /S" from the A: prompt. Refer to the DOS Operating System manual for installation and partitioning/formatting additional hard disks.

Microsoft Windows 3.1x and Windows95

The Windows 3.1x and Windows95 operating systems are supported by the FastTrak onboard BIOS. No additional drivers are required.

Installing Windows 3.1 or Windows95

Follow the standard methods of installing Microsoft Windows onto your hard disk:

Place "Disk 1" of your WINDOWS installation diskettes into the A: drive and type "A:\SETUP" at the A: prompt. Follow the normal Windows installation procedure and refer to your Windows manual for additional details.

Adding Drives To a System

Partition and format each FastTrak Disk Array:

Boot the system. Run the DOS FDISK utility to partition the FastTrak Disk Arrays. Format the drive letters (as indicated by FDISK) with DOS FORMAT.COM.

Installing Promise Microsoft Windows95 driver

For DOS and Windows: No drivers need to be installed. The FastTrak BIOS will provide enhanced operation.

Windows95 setup will show a "New Hardware Found" dialog box. Under versions 4.00.950 and 4.00.950A an "Unknown PCI Device" will be detected. Under versions 4.00.950 B "PCI RAID Controller" will be displayed.

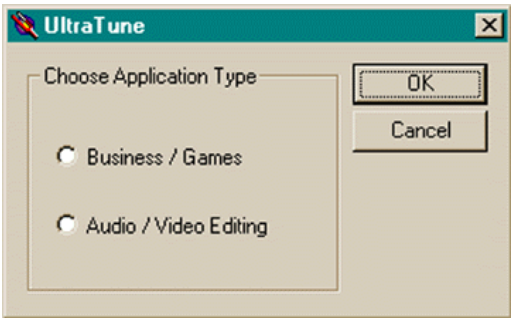
NOTE: To check the Windows95 version number click the Control Panel from My Computer followed by the System icon. Under "System:" note the version number.

In the dialog box choose "Driver from disk provided by hardware manufacturer" button. In the A: drive, insert the FastTrak utility diskette and type in "A:\WIN95" when prompted for the directory.

Select “Promise Technology, Inc. PCI FastTrak Driver” and click on Next. The FastTrak driver is now copied onto the system and entered into the Windows95 driver database.
When the "System Settings Change" dialog box appears, remove the floppy diskette and click on “Yes” to restart the system. Windows95 will then restart for the driver installation to take effect.

Confirming Windows95 Installation
From Windows95, open the Control Panel from My Computer followed by the System icon. Choose the “Device Manager” tab and click the “+” in front of the “SCSI Controllers” hardware type. The driver “Promise Technology, Inc. PCI FastTrak Driver” driver should be installed.

Installing UltraTune™ Utility and Driver Updates
From Windows95, insert the FastTrak diskette. Open the Start Button menu and click “Run”. Type in “A:\WIN95\SETUP.EXE” (or other directory containing update) and follow the onscreen directions to update the Promise driver (if necessary) and install UltraTune™. During setup, choose the initial UltraTune™ option as shown below. Click on your most commonly used application and confirm with the OK button. Upon completion, the computer must be restarted for the PnP changes to take effect.



The setup will create a shortcut for the UltraTune utility for you may re-optimize the Promise Windows95 driver. To relaunch UltraTune, open the Start Button menu, click on Programs, FastTrak Setup Utility, and then the

FastTrak Setup icon. Choose an application and click OK.

NetWare Drivers

Boot DOS and start to install NetWare. Run SERVER.EXE to get to the NetWare ":" prompt.

OR

Add the driver into the STARTUP.NCF which will automatically load on every boot.

For NetWare 3.1x installations:
load FSTTRK3.DSK
For NetWare 4 installations:
load FSTTRK4.DSK

Proceed with NetWare installation.

OS/2

The IBM OS/2 operating system requires drivers to support FastTrak drives.

Installing the FastTrak driver during OS/2 installation

1. Make a copy of the OS/2 diskette 1 and label it FastTrak OS/2 Boot disk.
2. On the FastTrak OS/2 Boot disk, free approximately 60K of space by deleting unused drivers. For example, if the Adaptec 152x and 164x SCSI adapters are not installed in the system, delete the AHA152x.ADD and the AHA164x.ADD drivers respectively.
3. Copy the FASTTRAK.ADD driver to the FastTrak OS/2 disk.
4. Edit the CONFIG.SYS and delete or remark out the Basedev statements referring to the deleted drivers. From the previous example, delete the lines "Basedev=aha152x.add" and "Basedev=aha164x.add" from the CONFIG.SYS.

   Add the line the following lines below the "Basedev= IBM1s506.ADD" line in the CONFIG.SYS:

BASEDEV=FASTTRAK.ADD
SET COPYFROMFLOPPY=1 (for OS/2 4.0 users only)

Installing the FastTrak driver in an existing OS/2 System

1. Double-click the System Setup icon from OS/2 System.
2. Double-click the Device Driver Install icon.
3. Click the Source directory "Change" button, set Source directory to A:\OS2.
4. Click the "Install" button.
5. Select Device Driver to for the particular OS/2 version and then click OK
6. OS/2 DDINSTALL will automatically copy the driver and change CONFIG.SYS, then exit and click OK to restart your system,

OR

1. Copy FASTTRAK.ADD to the \OS2\BOOT directory of your OS/2 WARP bootable hard drive.
2. Use a text editor to edit the CONFIG.SYS file.
3. Add the following line:
   BASEDEV = FASTTRAK.ADD
4. Restart the system.

Windows NT 3.5x and NT 4.0

The FastTrak supports operation under Windows NT 3.5x and later versions.

Installing the Driver During Windows NT 3.5x and NT 4.0 installation

1. a) Floppy Install: Boot the computer with the Windows NT installation diskettes.
   b) Floppyless Install: Boot from floppy and type "WINNT /B". After files have been copied, the system will reboot. On the reboot, press <F6> when the message "Setup is inspecting your computer's hardware configuration...".
   c) CD-ROM Install: Boot from the CD-ROM and press <F6> when the message "Setup is inspecting your computer's hardware configuration...".
2. Press "S" to add a SCSI adapter.

3. Select “Other (requires disk provided by hardware manufacturer).”
4. Specify “a:\”, insert the Promise driver diskette into drive A: and press ENTER.
5. Select the “Promise Technology Inc. FastTrak RAID Controller” and click “OK”.
6. Follow the normal setup installation procedure.

Installing the FastTrak driver in an existing Windows NT 3.5x system

1. In “Program Manager,” double-click on “Windows NT Setup” in “Main” group.
2. In “Windows NT Setup,” select “Options”, next choose “Add/ Remove SCSI Adapters...”
3. In “SCSI Adapter Setup,” click on “Add...”
4. In “Select SCSI Adapter Option,” select “Other (Requires a disk from a hardware manufacturer)” in the “Adapter:” box.
5. One “Insert Diskette” box will appear. Insert the driver diskette into Drive A: and type “a:\” into dialogue box.
6. One “Select OEM Option” box will appear. Select “Promise Technology Inc. FastTrak RAID Controller” and click on “OK”.
7. One “Select SCSI Adapter Option” will appear. Click on “Install”.
8. After successful installation, the “SCSI Adapter Setup” box will show that “Promise Technology Inc. FastTrak RAID Controller” has been installed.
9. Reboot your computer to assure the proper working of the driver.

Removing the FastTrak driver for Windows NT 3.5x

1. In “Program Manager,” double- click on “Windows NT Setup” in “Main” group.
2. In “Windows NT Setup”, select “Options”, next choose “Add/ Remove SCSI Adapters...”
3. In “SCSI Adapter Setup,” select “Promise Technology Inc. FastTrak RAID Controller” and click on “Remove.”
4. After successful removing, the “SCSI Adapter Setup” box will show that “Promise Technology Inc. FastTrak RAID controller” has been removed.

Installing the FastTrak driver in an existing Windows NT 4.0 system

1. In “Start” Button choose “Control Panel” in “Setup” group.
2. In “Control Panel”, select “SCSI Adapter”, next choose “Drivers” Label
3. Choose “Add” button.
4. In “Install Driver” dialog, push “Have Disk...” button.
5. One “Install From Disk” box will appear. Insert the driver diskette intoDrive A: and type “a:\” into dialogue box. Choose “OK”
6. One “Install Driver” box will appear. Select “Promise Technology Inc. FastTrak RAID Controller” and click on “OK”.
7. One “Select SCSI Adapter Option” will appear. Click on “Install”.
8. After successful installation, the “SCSI Adapter Setup” box will show that “Promise Technology Inc. FastTrak RAID Controller” has been installed.
9. Reboot your computer for the driver to take effect.

Removing the Driver

1. In “Start” Button choose “Control Panel” in “Setup” group.
2. In “Control Panel,” select “SCSI Adapter,” next choose “Drivers” label
3. Choose “Remove” button.
4. After successful removing, the “SCSI Adapter Setup” box will show that “Promise Technology Inc. FastTrak RAID Controller” has been removed.