6 Installing Video Drivers

A README file is provided for each application driver in the *mach64* installation disks. These files summarize the latest product revisions, contain directions for installation, and use of enhanced drivers. For added convenience, you can load and print README files using any word processor after their corresponding drivers have been installed.

README files for AutoCAD and MicroStation drivers are automatically displayed as you install the drivers. If you install the driver for Microsoft Windows, a README icon will be installed and placed in a program group called "*mach64* DeskTop." Click on this icon for feature and usage information about the driver.

Installation

Applications use video device drivers to display data on the screen. The *mach64* drivers give you more screen resolutions and color depths than standard device drivers. Furthermore, *mach64* supports IBM standard VGA and VESA drivers that normally come with most major software packages. To fully utilize the enhanced speed, resolution, color depth, and other features of this chip, you should use *mach64* drivers.

Note:
To conserve hard disk space, install only the drivers you use. You may require application software disks during driver installation.

De-Installation

This installation program allows you to effortlessly de-install some *mach64* drivers and return your application or operating environment to VGA support. This feature is available for Windows 3.1 and OS/2 Manager. Details are given in the respective sections.

Microsoft Windows 3.1

The *mach64* driver for Windows delivers increased performance at high resolutions and color depths. You need to install this driver using the steps outlined below.

The DRIVERS INSTALLATION option in the Main Menu sets **FlexDesk+** and **WinSwitch** automatically. FlexDesk+ customizes the operational/display settings of the driver. WinSwitch adds the capability of switching screen resolution and/or colors with a key.

De-Installation Procedure

Skip this section if you have not previously installed any *mach64* window driver. The program removes all existing driver from your hard disk and cleans up all associated Windows and MVA files.

Perform the following steps to de-install driver using Microsoft Windows 3.1:

1. Record the location of the Windows application.

2. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the Main Menu.

3. From the list of applications:

   a) Select Microsoft Windows
   b) De-Install Windows 3.1 driver
   c) Follow screen instructions to completion.

Installation Procedure

Perform the following steps to install drivers using Microsoft Windows 3.1:

1. Ensure your card has been installed and configured as described in Chapter 5 before continuing with this procedure.

2. Start Microsoft Windows to ensure it is properly installed, then quit Windows.

3. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the Main Menu.

4. From the list of applications:

a) Select MICROSOFT WINDOWS.
b) Select INSTALL WINDOWS 3.1 DRIVER and note the messages.
c) Follow screen instructions to completion.

5. After copying is done, record the Windows setup instructions, then press <Esc> to exit.

6. Exit the INSTALL program and restart Windows.

7. The ATI DeskTop icon is created automatically during driver installation. Select it to customize the look-and-feel of Windows.

AutoCAD 386 R10/R11/R12

Perform the following steps to install driver using AutoCAD 386:

1. Run AutoCAD 386 (protected mode) to ensure it is properly installed on your system. Note the directory location of the AutoCAD program files before you start the *mach64* installation program. You will need this information later.

2. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the Main Menu.

3. From the list of applications, select AutoCAD. When asked for source drive and directory, type in the information and insert requested diskettes.

4. Follow instructions on the screen to install the DLXpress driver.

5. When driver installation is completed, exit the installation program. Run ADIACAD.BAT to set the necessary driver parameters for the DOS environment as follows:

   ADIACAD <**Enter**>

   ADIACAD.BAT was created by the *mach64* installation program for your convenience. The parameters it sets must be in the environment before you start AutoCAD.

TIP: If you are using a batch file to start AutoCAD, consider adding ADIACAD to your batch file.

6. Start AutoCAD and reconfigure it to use the enhanced display list driver. For example, if you start AutoCAD using a batch file called ACADR12.BAT, type:

   ACADR1 -R <**Enter**>

   The "-R" parameter is supported only by AutoCAD release. For other releases, refer to your AutoCAD manuals.

   Documentation for the DLXpress driver is provided on the installation diskette. See the README.DLX file for details.

IBM OS/2 Presentation Manager 2.1

Installation Procedure

Perform the following steps to install driver using the IBM OS/2:

1. Start OS/2 2.1 to ensure that it uses the Video Graphics Array (VGA) driver before continuing with this procedure.

2. Insert the *mach64* installation disk #1 into a floppy drive.

3. Open the DOS Full Screen icon.

   The *mach64* installation program does not run in a DOS window. The DOS Box must be Full Screen for successful operation.

   Do not switch out of Full Screen to run Diagnostic Tests. Doing so will result in a corrupted display.

4. Type: **A:\INSTALL** <Enter> (For drive B, substitute **B**: for **A:**)

5. Select DRIVERS INSTALLATION from the Main Menu.

6. This will copy the *mach64* driver to the MACH_OS2 directory.

7. Open an OS/2 Window or OS/2 Full Screen icon and type: **DPINSTL** <Enter>.

8. When the Display Driver Install panel appears, select Primary Display and choose OK to bring up the selection list.

9. Select ATI Technologies *mach64* from the list and choose OK.

10. When the source directory panel appears, choose Change. Select the drive and directory where the *mach64* driver resides (e.g., C:\MACH_OS2) then choose Set and Install.

11. After the driver is installed, do a shut down, then restart OS/2.

12. The OS/2 driver will first come up as 640x480 in 256 colors. Perform the following steps to change screen resolution and/or color depth:
    a) Open the “OS/2 System” icon.
    b) Open the “System Setup” icon.
    c) Open the “System” icon.
    d) Select the “Screen” tab in the “System-Settings” window.
    e) Select desired resolution and color depth from list.
    f) Close the “System-Settings” window.
    g) Do a shutdown of OS/2, then restart your computer.

Note:
The resolution you select for the OS/2 driver must be a supported and enabled resolution as defined by the Monitor Type setting chosen in the mach64 *installation program.*

De-Installation Procedure

Perform the following steps to de-install driver using IBM OS/2:

1. Open an OS/2 Window or OS/2 Full Screen icon and type:
   DPINSTL <Enter>

2. Select “Video Graphics Array (VGA)” as the Primary Display. The Source Directory panel appears.

3. Insert the OS/2 Display Driver disk in the floppy drive. Select the drive and directory where the VGA driver resides (typically A: or B:), choose Set, then choose Install.

4. After the driver is installed, do a shutdown of OS/2, then restart your computer.

Continue with the following steps if you wish to remove *mach64* files from your hard disk.

5. Open the DOS Full Screen icon.

6. Change to the *mach64* directory and type: **INSTALL**<Enter>

7. Select DRIVERS INSTALLATION from the Main Menu.

8. Select IBM OS/2 from the list of applications.

9. Select UN-INSTALL OS/2 Driver, then follow instructions on the screen.

Intergraph MicroStation 4.0

Perform the following steps to install driver using Intergraph MicroStation.

1. Ensure that MicroStation is properly installed on your system before continuing with this procedure.

2. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the Main Menu.

3. From the list of applications, select MicroStation. Enter the source drive and directory information, then insert the disk prompted.

4. Follow the instructions on screen to complete the driver installation.

5. When driver installation is completed, press <Esc> to exit.

6. Refer to the README.USD file that has been copied to your MicroStation directory for instructions and driver configuration details.

Microsoft Windows NT

Installation Procedure

Perform the following steps to install driver using Microsoft Windows NT:

1. Run the Windows NT Setup program. It is located in the Program Manager Main window.

2. Insert the ATI installation disk marked Windows NT Driver into your floppy drive.

3. Select Other, and supply the Setup program with the location of the NT files (i.e., B:\NT if using drive B). The program will install the ATI driver.

4. Restart Windows NT.

Note:
If the NT driver resolution selected is not supported, the display reverts to 640x480 regardless of the resolution setting selected in the Presentation Manager driver setup.

De-Installation Procedure

You may de-install the *mach64* driver for Windows NT using either of the following steps:

1. In the WINNT\SYSTEM32\DRIVERS directory, rename the ATI.SYS file, for example, to ATI.ATI. When you restart Windows NT, it will not find ATI.SYS, and boot up in VGA.

2. Run the Windows NT Setup program and select a non-ATI driver, for example, a VGA-Compatible driver. When you restart Windows NT, it boots up with the non-ATI driver you just selected.

Microsoft Word (for DOS) 5.x, 6.0

Mach64 drivers for Microsoft Word support 640x480, 800x600, and 1024x768 screen resolutions in 16 colors. Perform the following steps to install driver using Microsoft Word:

1. Run Microsoft Word to ensure it is properly installed on your system before continuing with this procedure.

2. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the main menu.

3. From the list of applications, select Microsoft Word.

4. Select an appropriate Word program version.

5. Follow the instructions on screen to complete the driver installation.

6. When driver installation is completed, press <Esc> to exit.

7. Refer to the README file that has been copied into your Word directory for instructions and driver configuration details.

WordPerfect (for DOS) 5.x, 6.0

WordPerfect Versions 5.0 and 5.1

The *mach64* drivers for WordPerfect 5.x support 800x600 and 1024x768 screen resolutions in 16 colors. Perform the following steps to install driver using WordPerfect Versions 5.0 and 5.1:

1. Run WordPerfect to ensure that it is properly installed on your system before continuing with this procedure.

2. Run the *mach64* installation program and SELECT DRIVERS INSTALLATION from the Main Menu.

3. From the list of applications, select WordPerfect.

4. When prompted, insert the disk and enter the source drive and directory information of the disk.

5. When asked, enter the directory where WordPerfect is installed. Press <Enter> to copy the necessary driver files to that directory.

6. When driver installation is completed, press <Esc> to exit.

7. Run the WordPerfect Setup program to select this enhanced driver, as follows:

   a) Run WordPerfect, press <Shift><F1> for the Setup option.
   b) Press <D> for Display.
   c) Press <G> for Graphics Screen Type.
   d) Select the *mach64* driver and press <Enter>.

WordPerfect Version 6.0

This chip supports the VESA SVGA BIOS Extension which supports several high resolution display modes. Perform the following steps to install driver using WordPerfect Version 6.0:

1. The *mach64* accelerator must be set up for the resolution intended to use.

2. Run the WordPerfect Setup program to select a VESA display mode as follows:

   a) Run WordPerfect, press <Shift><F1> for the Setup option.
   b) Press <D> for Display.
   c) Press <G> for Graphics Screen Type.
   d) Press <S> for Screen Type.
   e) Select VESA VBE (VESA BIOS Extension) and press <S>.
   f) Select one of the displayed modes and press <S>. A Driver Warning dialog may appear; if so, consult the WordPerfect documentation for information.
   g) Press <Enter> as prompted. When you exit the Setup program, you should be in the selected mode. If not, repeat Step1 to check if the card is correctly configured for this resolution.