IBM IntelliStation - Second Microprocessor Installation

> **Important**
>
> - Use this procedure to install a second microprocessor. If you are replacing or upgrading the existing microprocessor, see the documentation supplied with your computer for instructions.
> - Be sure to perform a backup of the hard disk before you perform this procedure.
> - If you do not perform the following steps in the proper order, your computer might be unusable after you have installed a second microprocessor.
> - Before installing a second microprocessor, you must run the ADDCPU.EXE utility program. You do not have to reinstall Microsoft Windows NT Workstation 4.0.
> - Refer to "Updating System Programs" in the documentation supplied with your computer to download and install the current *Flash BIOS Update* program for your computer. It might be necessary to install the latest version Flash BIOS again after installing the second processor. This is required only if a different step level processor has been installed.

1 Verify the *Ready-to-Configure Utility Program* CD supplied with your computer is Version 1.1 or later.

If you do not have the correct version of the CD, download the latest version of the ADDCPU.EXE file from the World Wide Web at www.us.pc.ibm.com/files.html.

When instructed to run ADDCPU.EXE, use either the downloaded file or run it from the *Ready-to-Configure Utility Program* CD. The ADDCPU.EXE utility program can be run from Windows NT Explorer, the Start menu, or a command window.

2 Determine if your computer has IBM-installed Windows NT by performing the following steps:

    a. Using the right mouse button, click **My Computer**.
    b. Using the left mouse button, click **Properties**.

      If the following message is displayed on the screen, you have IBM-installed Windows NT:

```
Manufactured and supported by IBM
```

If your computer does not indicate `Manufactured and supported by IBM`, use Procedure B.
If your computer indicates `Manufactured and supported by IBM`, continue with Step 3 to determine which Service Pack is installed.

3 Determine which Service Pack is installed on your computer by performing the following steps:

    a. Using the left mouse button, double-click **My Computer**.
    b. Click **Help**.
    c. Click **About Windows NT**.

      If the following message is displayed on the screen, you have Service Pack 3 installed:

```
Version 4.0 (Build 1381:  Service Pack 3)
```

If your computer indicates `Service Pack 3` is installed, continue with Step 4 to determine if the C:I386 folder (directory) exists.

If any of the following messages are displayed, you do not have Service Pack 3 installed and should use Procedure B.

```
Version 4.0 (Build 1381:  Service Pack 1)
Version 4.0 (Build 1381:  Service Pack 2)
Version 4.0 (Build 1381:  Service Pack 4)
```

4 Determine if the C:\I386 folder (directory) exists by performing the following steps:

- Using the left mouse button, double-click **My Computer**.

- Double-click the C: drive. For example: **IBM_PRELOAD(C:)**
- Look for the **I386** directory.

If the I386 directory does not exist, use Procedure B. Otherwise use Procedure A.

Procedure A

Use this procedure only if you DO HAVE IBM-installed Windows NT and have Service Pack 3 and have the C:\I386 directory.

1. Run ADDCPU.EXE and read the displayed instructions; then click **OK**. You might receive a message about a Service Pack having been installed. Click **Yes** to continue.

2. **Attention:** In this step, be sure to select the path correctly. If you select the wrong path, your computer might be unusable after it is restarted.

   From the Location of the Windows NT Files window, under **Drives:**, click the C: drive. For example, **C:IBM_PRELOAD** then under **Directories:**, double-click **I386**. Click **OK**.

3. When ADDCPU.EXE has completed (ADDCPU.EXE finishes silently if there are no errors) shut down Windows NT, turn off the computer, and unplug the power cord from the electrical outlet.

4. Install the second microprocessor using the instructions in the installing options documentation for your computer.

5. After the second microprocessor is installed, plug in the power cord and turn on the computer. The Configuration/Setup Utility program runs automatically after the computer is restarted. A 162 POST error message is displayed but this is normal. To continue, save the configuration and exit the configuration program. When Windows NT starts, it automatically recognizes and uses the second microprocessor. If you receive a 167 error message after rebooting, install the latest version Flash BIOS update.

Procedure B

Use this procedure if you DO NOT HAVE IBM-installed Windows NT, DO NOT HAVE Service Pack 3, or DO NOT HAVE the C:\I386 directory.

1. If you have not already done so, determine which Service Pack is installed on your computer by performing the following steps:

   a. Using the left mouse button, double-click **My Computer**.
   b. Click **Help**.
   c. Click **About Windows NT**.

      In the following message displayed on the screen, note which Service Pack is installed:

         Version 4.0 (Build 1381: Service Pack ?)

   If the message states **Service Pack 1**, skip Step 2 and go directly to Step 3. Otherwise, continue with Step 2.

2. If you do not have the Service Pack CD that matches the Service Pack on your computer, download it from the World Wide Web at:

         www.microsoft.com/support/winnt

3. Run ADDCPU.EXE and read the displayed instructions; then click **OK**. If you receive a warning message about a Service Pack having been installed, then click **Yes** to continue.

4. Insert the *Microsoft Windows NT Workstation 4.0* CD into the CD-ROM drive.

Attention: In this step, be sure to select the path correctly. If you select the wrong path, your computer might be unusable after it is restarted.

From the Location of the Windows NT Files window, under **Drives:**, click on the CD-ROM which corresponds to the drive in which you inserted the *Microsoft Windows NT Workstation 4.0 CD*. Then, under **Directories:**, double-click **I386**. Click **OK**.

5. When ADDCPU.EXE has completed (ADDCPU.EXE finishes silently if there are no errors) *DO NOT shut down Windows NT or restart the computer yet*. If your computer has Service Pack 1 installed, skip Step 6 and go to Step 7. Otherwise, continue with Step 6.

6. Run UPDATE.EXE from your Service Pack CD or, if you downloaded a Service Pack from the World Wide Web, run its install program (for example: NT4SP3_I.EXE).
   Attention: If the following message appears, click **No**. Selecting **Yes** might cause your computer to be unusable after it is restarted.

   ```
   This file has been identified as an OEM installed file.
   Would you like to overwrite the version of the file
   on your system with the Service Pack version?
   ```

   Follow the Service Pack installation instructions and wait for the Service Pack program to complete.

7. When the program has completed, shut down Windows NT, turn off the computer, and unplug the power cord from the electrical outlet.

8. Install the second microprocessor using the instructions in the installing options documentation for your computer.

9. After the second microprocessor is installed, plug in the power cord and turn on the computer. The Configuration/Setup Utility program runs automatically after the computer is restarted. A 162 POST error message is displayed but this is normal. To continue, save the configuration and exit the configuration program. When Windows NT starts, it automatically recognizes and uses the second microprocessor. If you receive a 167 error message after rebooting, install the latest version Flash BIOS update.