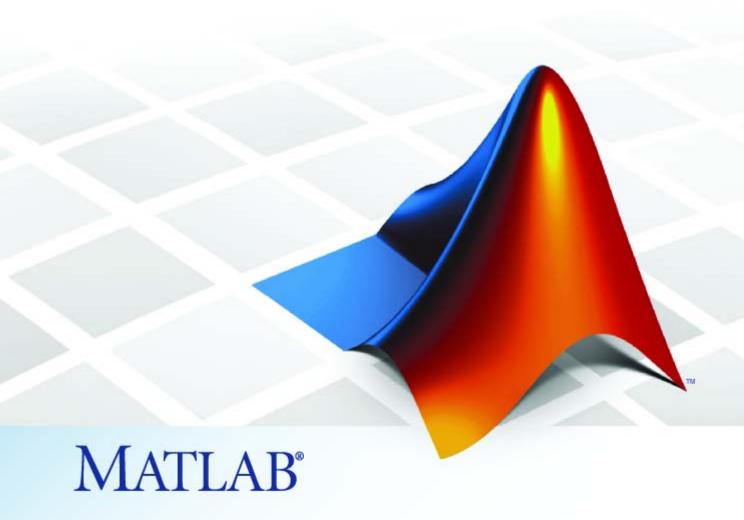
# MATLAB® & Simulink® Release 2008a Installation Guide for UNIX®





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comp.soft-sys.matlab Newsgroup

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Installation Guide for UNIX®

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# Standard UNIX® Installation and Activation Procedures

This topic describes how to install the MathWorks Release 2008a (R2008a) products on systems running the UNIX® and Linux® operating systems.

Installing MathWorks™ Software in a Standalone Environment (p. 1-2)

Describes how to install MATLAB® software in a standalone

Activating Your Installation (p. 1-11)

Describes how to activate the software after an installation

environment

Installing and Activating Without an Internet Connection (p. 1-22)

Describes how to install and activate MATLAB software when you do not have an Internet connection

Installing MathWorks™ Products in a Network Configuration (p. 1-34) Describes how to install MATLAB and the license manager on a server

After You Install (p. 1-46)

Describes common post-installation tasks

Deactivating and Removing a MATLAB® Installation (p. 1-53)

Describes how to deactivate and remove a MATLAB installation

System Requirements (p. 1-55)

Details the system requirements to run MATLAB software

Mounting Your DVD Drive (p. 1-58)

Provides the commands required to mount a DVD drive on supported

platforms

# Installing MathWorks™ Software in a Standalone Environment

#### In this section...

- "Step 1: Before You Install" on page 1-2
- "Step 2: Start the Installer" on page 1-3
- "Step 3: Choose Whether to Install Automatically or Manually" on page 1-4
- "Step 4: Review the Software License Agreement" on page 1-4
- "Step 5: Specify Installation Directory" on page 1-5
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- "Step 10: Begin the Installation" on page 1-9
- "Step 11: Complete the Installation" on page 1-9

#### Step 1: Before You Install

Before you run the Installer:

- Make sure you have your e-mail address and your MathWorks™ Account
  password handy. You log in to your account during installation. If you
  have multiple licenses associated with your account, know the number
  of the license you want to install.
  - If you don't have a MathWorks Account, you can create one during installation. However, to do this, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.
- Get the root password. To install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the license manager automatically at system boot time, you need superuser

status. If you do not have superuser status, you can still install MATLAB® software, but you must specify absolute pathnames to start the software. You can also set up these links after the installation is complete.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-22.

If you need to perform a network server or client installation, see "Installing MathWorks™ Products in a Network Configuration" on page 1-34.

#### Step 2: Start the Installer

Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. If your system requires that you mount the DVD drive, see "Mounting Your DVD Drive" on page 1-58.

**Note** Do not move to the newly mounted DVD directory.

If you are downloading product files over the Internet, save the files to a temporary location (referred to as \$TEMP in this documentation). See the downloads page for detailed instructions.

**Note** On Linux® systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3

If you are installing from a DVD, execute the following command to run the installer.

```
/path to dvd/install &
```

If you are installing from downloaded files, extract the installer in the \$TEMP directory. For example, on Linux systems run the following command.

```
tar -xf boot.ftp
```

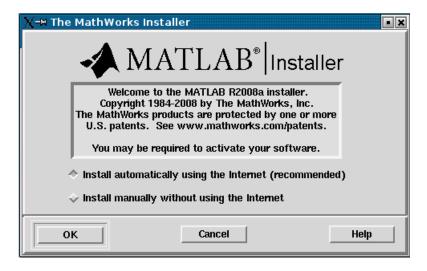
Once you have expanded all the installer files in the \$TEMP directory, execute the appropriate command to run the MathWorks installer on your platform.

./install

# Step 3: Choose Whether to Install Automatically or Manually

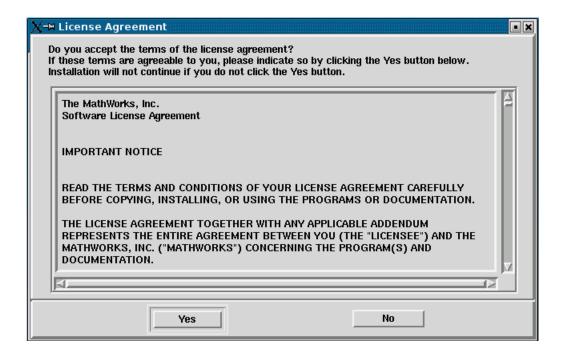
When it starts, the installer displays the following dialog box. Choose whether you want to install automatically or manually. When you install automatically, the installer contacts The MathWorks during installation to get license information. The MathWorks recommends installing automatically. If you choose to install manually, see "Installing and Activating Without an Internet Connection" on page 1-22 for step-by-step instructions.

Make your selection and click **OK** to proceed with installation.



#### Step 4: Review the Software License Agreement

Review the software licensing agreement and, if you agree to its terms, click **Yes** to proceed with installation.

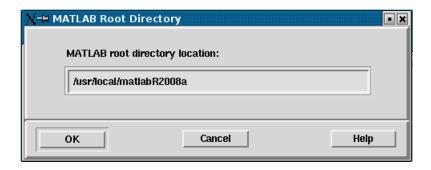


#### **Step 5: Specify Installation Directory**

Specify the name of the directory in which you want to install MathWorks products. If the directory does not exist, the installer creates it. When choosing a name for your installation directory, do not specify a name that contains an at (@) sign, the per cent (%) character, a plus sign (+), an exclamation point (!), or a dollar (\$) sign, or that includes a directory named private as part of the path.

**Note** When upgrading an existing installation, always install the new release in a new installation directory. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.

Click **OK** to proceed with the installation.



#### Step 6: Log In to Your MathWorks Account

Enter your e-mail address and your MathWorks Account password, and click **OK** to log in to your MathWorks Account.



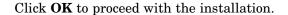
#### Step 7: Select the License You Want to Install

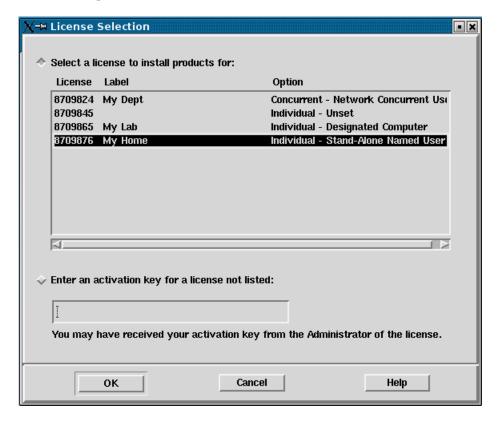
When you log in to your MathWorks Account, the installer displays all the licenses associated with your account. Each row contains:

- License number
- An optional descriptive text label that can help identify a license. To label your licenses, go to the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type has not yet been set on the license, the word "Unset" appears.

Select the license you want to install by clicking anywhere in a row. (If the license is a network license option, see "Installing MathWorks™ Products in a Network Configuration" on page 1-34.)

If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that occurs when you activate the license.

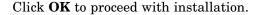


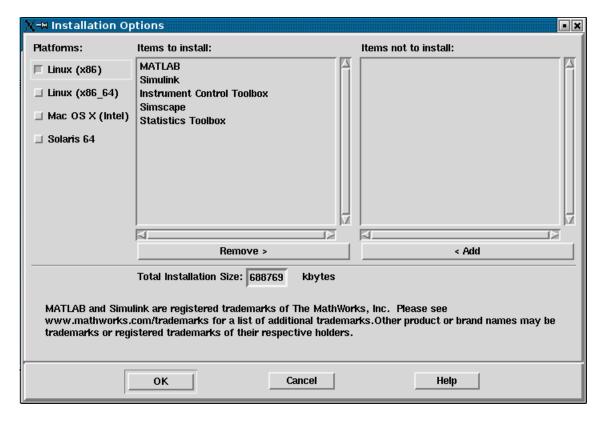


### **Step 8: Select the Products to Install**

Specify the products you want to install in the Installation Options dialog box. By default, the installer lists all the products that you are licensed to install in the **Items to install** pane. If you do not want to install an item, select it and click **Remove**. This moves the product into the **Items not to install** pane.

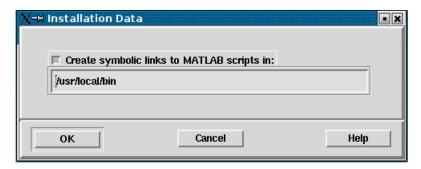
You can also choose which product binary files are installed on your computer from the **Platforms** list. By default, the installer preselects the platform on which you are running the installer. If you want to install product binary files for additional platforms, select them in the **Platforms** column.





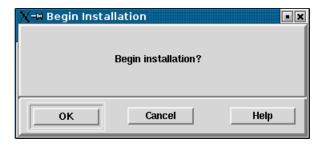
### **Step 9: Specify Location of Symbolic Links**

In the Installation Data dialog box, you can specify whether you want to create symbolic links to the matlab and mex scripts. Specify a directory such as /usr/local/bin that is common to all your users' paths and click **OK** to continue with the installation.



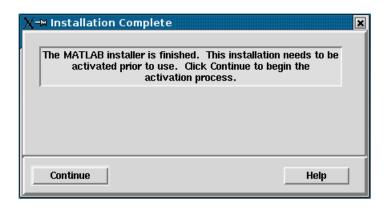
#### Step 10: Begin the Installation

To begin copying files onto your hard disk, click **OK**. The installer displays a dialog box indicating the progress of the installation.



#### **Step 11: Complete the Installation**

When the installation successfully completes, the installer informs you if your installation needs to be activated. While you can activate as a separate process, The MathWorks recommends activating immediately after installing. See "Activating Your Installation" on page 1-11 for step-by-step instructions.



For information about some common post-installation tasks, see "After You Install" on page 1-46.

Whether you choose to activate immediately or not, click Continue.

If you are going to continue on with activation, leave the MathWorks DVD mounted. If you decided to activate later, you can unmount the DVD drive and remove the DVD.

# **Activating Your Installation**

#### In this section...

- "Step 1: Start the Activation Application" on page 1-11
- "Step 2: Log In to Your MathWorks Account" on page 1-13
- "Step 3: Select the License You Want to Activate" on page 1-15
- "Step 4: Choose an Activation Type" on page 1-17
- "Step 5: Specify Login Name" on page 1-18
- "Step 6: Confirm Your Activation Information" on page 1-19
- "Step 7: Complete Activation" on page 1-20

#### **Step 1: Start the Activation Application**

If you let the installer start the activation application for you, and you were already logged in to your MathWorks<sup>TM</sup> Account, the activation application displays the following welcome dialog box. Your MathWorks Account log-in session continues into the activation process. If you exited the installer without starting the activation application, see "Starting the Activation Application Independently" on page 1-12.

Click **Next** to proceed with activation.



#### **Starting the Activation Application Independently**

If you chose not to continue on with activation after installation, you can start the activation application independently. Go to the <code>matlabroot/bin</code> directory, where <code>matlabroot</code> represents the name of your MATLAB installation directory, and run the <code>activate\_matlab.sh</code> script. For example:

```
cd matlabroot/bin
./activate_matlab.sh &
```

When started independently, the activation application welcome dialog box asks whether you want to activate automatically or manually. If you are connected to the Internet, leave the **Activate automatically using the Internet** option selected and click **Next** to proceed with activation. The MathWorks recommends activating automatically. The option to activate manually is useful if you do not have an Internet connection—see "Step 11: Start the Activation Application" on page 1-29.



If your Internet connection requires a proxy server, click the **Advanced Options** button. You can enter the server name and port information in the Advanced Options dialog box.

#### Step 2: Log In to Your MathWorks Account

**Note** If you let the installer start the activation application, and you were logged in to your account during installation, the activation application skips this step.

Enter your e-mail address and MathWorks Account password and click **Next** to proceed with activation.

If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**. See "Creating a MathWorks Account" on page 1-14 for instructions.

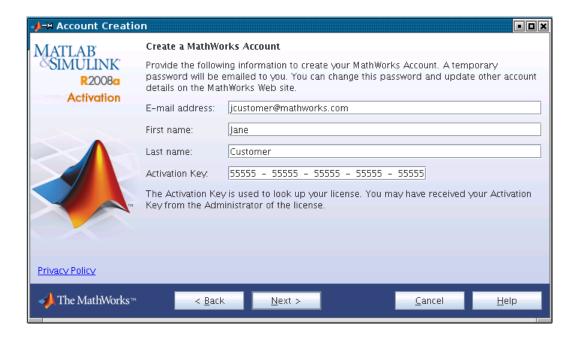


#### **Creating a MathWorks Account**

If you selected the **I need to create a MathWorks Account** option, the activation application displays the Account Creation dialog box. Provide the information required to create an account. Note that you must provide an Activation Key to identify a license to associate with the account. Ask the administrator on your license for the Activation Key.

Click **Next** to proceed with activation.

**Note** Because the Activation Key identifies a license, the activation application can skip the next step, license selection. If the license specified already has the activation type set, the activation application can also skip the activation type selection step.



#### Step 3: Select the License You Want to Activate

**Note** If you continued on with activation immediately after installation, the activation application assumes you want to activate the license that you just installed and skips this step. Likewise, if you created a new account in the previous step and specified an Activation Key, the activation application skips this step.

When you log in to your MathWorks Account, the activation application displays all the licenses associated with your account. Each row contains:

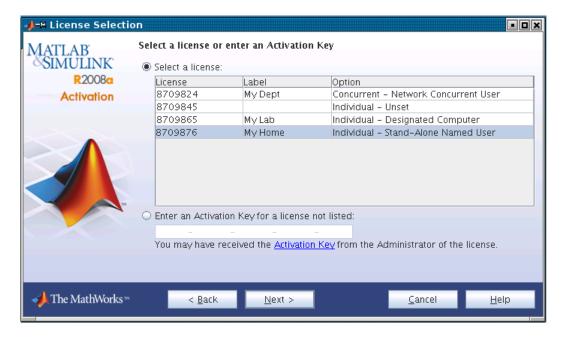
- License number
- An optional descriptive text label that can help identify a license. To label a license, go to the License Center at the MathWorks Web site. See License Center Help for instructions.

Information identifying the license option and the activation type. If an
activation type has not yet been set on the license, the word "Unset"
appears.

Select the license you want to activate by clicking anywhere in a row.

If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that occurs when you activate the license.

Click **Next** to proceed with the activation.

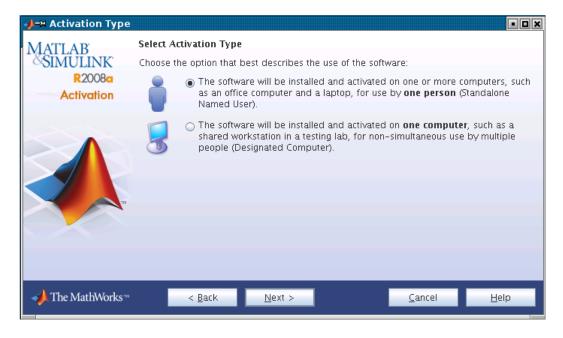


### **Step 4: Choose an Activation Type**

**Note** If the license you installed (or selected) has the activation type preset, the activation application skips this step.

Select an activation type for your license. If you want to ensure that you are the only person who can use the software, select the Standalone Named User option. If you want to share the installation for nonsimultaneous use by several people, choose the Designated Computer option.

After making your selection, click **Next** to proceed with activation.



#### **Step 5: Specify Login Name**

**Note** If you picked the Designated Computer activation type for the license, the activation application skips this step; you do not need to specify a user name.

If you selected the Stand-Alone Named User activation type, you must specify the *operating system user name* of the person who will use the software. The operating system user name is the ID under which a user gains access to a computer. It is also known as computer login name. Standalone Named User activation types lock to this user name in addition to the computer host ID. Accept the default user name or enter a new one and click **Next** to proceed with activation.

If you are the administrator of the license, you can activate the license for someone else. Select the **Someone else** option and specify their e-mail address, name, and operating system user name. When you click **Next**, the activation application looks for their MathWorks Account or creates a new account for them.



#### **Step 6: Confirm Your Activation Information**

If all the information displayed is correct, click **Activate**.

To activate an installation, The MathWorks creates a License File that is locked to the computer. If you selected the Standalone Named User activation type, The MathWorks also locks the License File to a particular user. The activation application copies this License File onto your computer. This License File enables you to run MathWorks products on your computer. The MathWorks also keeps a record of the activation in MathWorks systems.



### **Step 7: Complete Activation**

After activation is complete, you can run the MathWorks software on your computer. Click **Finish** to exit the activation process.



## **Installing and Activating Without an Internet Connection**

#### In this section...

- "Step 1: Before You Install" on page 1-22
- "Step 2: Start the Installer" on page 1-23
- "Step 3: Choose Whether to Install Automatically or Manually" on page 1-24
- "Step 4: Review the License Agreement" on page 1-24
- "Step 5: Specify Installation Directory" on page 1-25
- "Step 6: Enter the File Installation Key" on page 1-26
- "Step 7: Select the Products to Install" on page 1-27
- "Step 8: Specify Location of Symbolic Links" on page 1-28
- "Step 9: Begin the Installation" on page 1-28
- "Step 10: Complete the Installation" on page 1-28
- "Step 11: Start the Activation Application" on page 1-29
- "Step 12: Specify the Location of Your License File" on page 1-30
- "Step 13: Complete Activation" on page 1-32

#### Step 1: Before You Install

Before you run the installer:

- Make sure you have a *File Installation Key* and a License File. The File Installation Key is a code that determines which products you can install. The File Installation Key is not unique to a license. The License File identifies the products you can run. The administrator on the license can retrieve the File Installation Key and License File at the License Center at the MathWorks Web site. See License Center Help for instructions.
- Get the root password. To install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the MATLAB license manager automatically at system boot time, you need superuser status. If you do not have superuser status, you can still install MATLAB® software, but you must specify absolute pathnames to start the software. You can also set up these links after the installation is complete.

If you have an Internet connection, follow the instructions in "Installing MathWorks™ Software in a Standalone Environment" on page 1-2. The MathWorks recommends installing and activating automatically using an Internet connection.

You can use this procedure to install the software in a standalone environment and in network configurations. For detailed instructions about performing installing in a network configuration, see "Installing MathWorks<sup>TM</sup> Products in a Network Configuration" on page 1-34.

#### Step 2: Start the Installer

Log in to the system on which you want to install MATLAB software.

Insert the MathWorks™ DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. If your system requires that you mount the DVD drive you intend to use to do the installation, use the following instructions. If you are downloading product files over the Internet, save the files to a temporary location (referred to as \$TEMP in this documentation). See the downloads page for detailed instructions.

**Note** On Linux<sup>®</sup> systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3

If you are installing from a DVD, execute the following command to run the installer.

```
/path_to_dvd/install &
```

If you are installing from downloaded files, extract the installer in the \$TEMP directory. For example, on Linux systems run the following command.

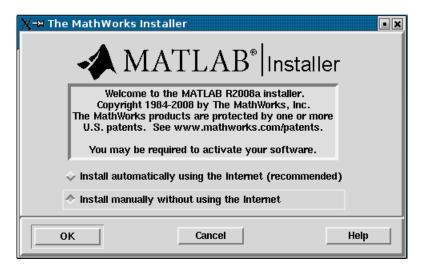
```
tar -xf boot.ftp
```

Once you have expanded all the installer files in the \$TEMP directory, execute the appropriate command to run the installer on your platform.

./install

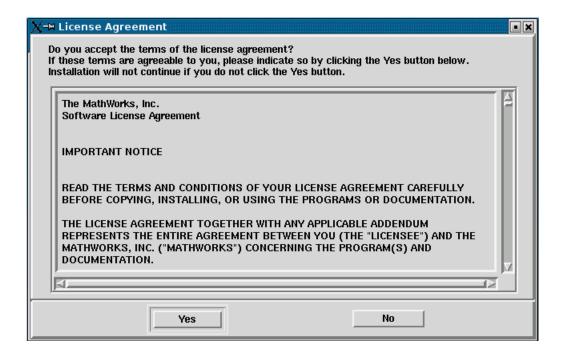
# Step 3: Choose Whether to Install Automatically or Manually

When it starts, the installer displays the following dialog box. If you do not have an Internet connection, select the **Install manually without using the Internet** option and click **OK** to proceed with installation.



#### **Step 4: Review the License Agreement**

Review the software licensing agreement and, if you agree to its terms, click **Yes**.

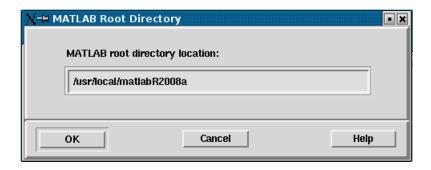


#### **Step 5: Specify Installation Directory**

Specify the name of the directory in which you want to install MathWorks products. If the directory does not exist, the installer creates it. When choosing a name for your installation directory, do not specify a name that contains an at (@) sign, the per cent (%) character, a plus sign (+), an exclamation point (!), or a dollar (\$) sign, or that includes a directory named private as part of the path.

**Note** When upgrading an existing installation, always install the new release in a new installation folder. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.

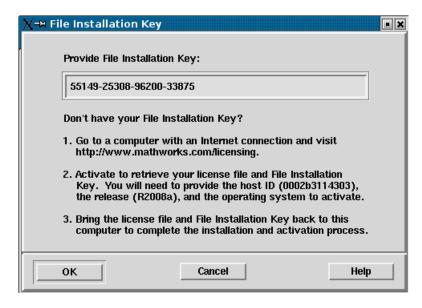
Click **OK** to proceed with the installation.



### Step 6: Enter the File Installation Key

Enter your File Installation Key and click OK.

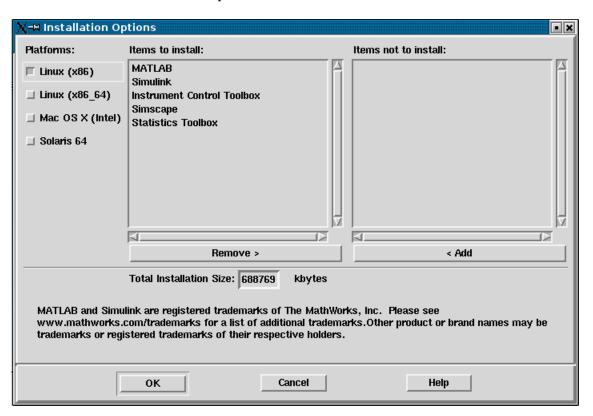
If you do not have your File Installation Key, note the host ID and release number information given in this dialog box and click **Cancel** to exit the installer. Take this information to a computer with an Internet connection and visit the License Center at the MathWorks Web site. Provide The MathWorks with this information to retrieve the File Installation Key and License File.



#### Step 7: Select the Products to Install

Specify the products you want to install in the Installation Options dialog box. By default, the installer lists all the products that you are licensed to install in the **Items to install** pane of this dialog box. If you do not want to install an item, select it and click **Remove**. This moves the product into the **Items not to install** pane.

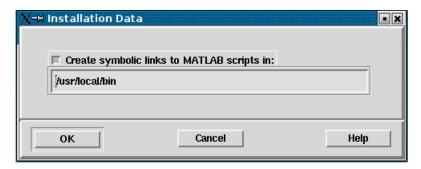
You can also choose which product binary files are installed on your computer from the **Platforms** list. By default, the installer preselects the platform on which you are running the installer. If you want to install product binary files for additional platforms, select them in the **Platforms** column.



Click **OK** to proceed with installation.

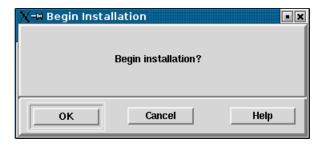
### **Step 8: Specify Location of Symbolic Links**

In the Installation Data dialog box, you can specify whether you want to create symbolic links to the matlab and mex scripts. Specify a directory such as /usr/local/bin that is common to all your users' paths and click **OK** to continue with the installation.



#### Step 9: Begin the Installation

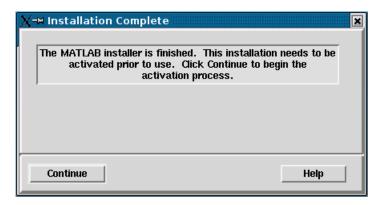
To begin copying files onto your hard disk, click **OK**. The installer displays a dialog box indicating the progress of the installation.



#### **Step 10: Complete the Installation**

When the installation successfully completes, the installer displays the Installation Complete dialog box. This dialog box gives you the option to proceed directly to activating your installation. While you can activate as a separate process, The MathWorks recommends activating immediately after installing. Click **Continue** to proceed to activation or exit the installer.

This procedure for installing and activating without an Internet connection assumes you choose to continue with the activation process at "Step 11: Start the Activation Application" on page 1-29.



For general information about some common post-installation tasks, see "After You Install" on page 1-46.

# **Step 11: Start the Activation Application**

If you clicked **Continue** on the last installer screen, or started the activation application independently, the activation application displays the welcome dialog box. Select the **Activate manually without the Internet** option and click **Next**.

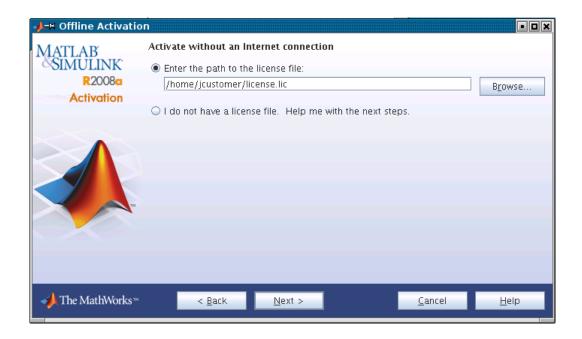


# Step 12: Specify the Location of Your License File

Specify the full path of the License File associated with the installation of this license, or use the **Browse** button to find the file. The administrator on the license retrieved this License File along with the File Installation Key at the License Center.

If you do not have your License File, select the **I do not have a License File** option. See "When You Do Not Have a License File" on page 1-31 for more information.

Click **Next** to proceed with activation.



### When You Do Not Have a License File

If you selected the **I** do not have a License File option, the activation application displays the License File Retrieval dialog box. Note the host ID and release number given in this dialog box (you can print it). You will need this information to get your License File.

Click **Finish** to exit the activation application. Visit the License Center at the MathWorks Web site to get your License File, and bring these items back to this computer to complete activation.



# **Step 13: Complete Activation**

When activation completes successfully, you can start MATLAB software on your computer. Click **Finish** to exit the activation application. If you want the activation application to start the MATLAB software as it exits, leave the **Start MATLAB** check box selected.



# Installing MathWorks™ Products in a Network Configuration

#### In this section...

- "Step 1: Before You Install" on page 1-34
- "Step 2: Start the Installer" on page 1-35
- "Step 3: Choose Whether to Install Automatically or Manually" on page 1-36
- "Step 4: Review the Software License Agreement" on page 1-37
- "Step 5: Specify Installation Directory" on page 1-37
- "Step 6: Log In to Your MathWorks Account" on page 1-38
- "Step 7: Select the License You Want to Install" on page 1-38
- "Step 8: Specify the Products to Install" on page 1-40
- "Step 9: Specify Location of Symbolic Links" on page 1-42
- "Step 10: Specify Location of License File" on page 1-42
- "Step 11: Begin the Installation" on page 1-44
- "Step 12: Complete the Installation" on page 1-44

# Step 1: Before You Install

Before you run the installer,

- Make sure you have an activated License File. When installing one of the network license options, you must visit the License Center at the MathWorks Web site, provide the host ID of the computer on which you will run the license manager, and retrieve an activated License File.
- Make sure you have your e-mail address and your MathWorks™ Account
  password handy. You will need them to log in to your account during
  installation. If you have multiple licenses associated with your account,
  know the number of the license you want to install.

If you don't have a MathWorks Account, you can create one during installation. However, to do this, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to

activate the license. The Activation Key also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

• Get the root password. Superuser status is required to install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the license manager automatically at system boot time. If you do not have superuser status, you can still install the software, but you must use absolute pathnames to start the software. You can also set up these links after the installation is complete.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-22. Note that the procedure for installations of network license options contain a few additional steps.

If you need to perform an installation in a standalone environment, see "Installing MathWorks<sup>TM</sup> Software in a Standalone Environment" on page 1-2.

# Step 2: Start the Installer

Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. If your system requires that you mount the DVD drive you intend to use to use to do the installation, see "Mounting Your DVD Drive" on page 1-58. If you are downloading product files over the Internet, save the files to a temporary location (referred to as \$TEMP in this documentation). See the downloads page for detailed instructions.

**Note** On Linux® systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3

If you are installing from a DVD, execute the following command to run the installer.

/path\_to\_dvd/install &

If you are installing from downloaded files, extract the installer in the \$TEMP directory. For example, on Linux systems run the following command.

tar -xf boot.ftp

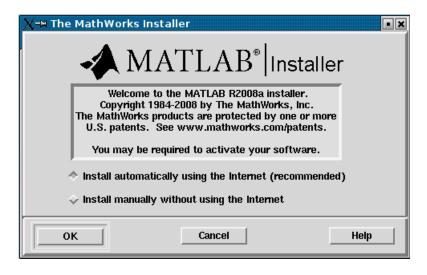
Once you have expanded all the installer files in the \$TEMP directory, execute the appropriate command to run the installer on your platform.

./install

# Step 3: Choose Whether to Install Automatically or Manually

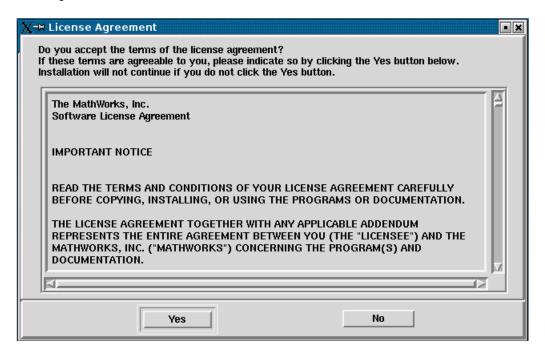
When it starts, the installer displays the following dialog box. Choose whether you want to install automatically or manually. When you install automatically, the installer contacts The MathWorks during installation. The MathWorks recommends installing automatically. If you choose to install manually, see "Installing and Activating Without an Internet Connection" on page 1-22 for step-by-step instructions.

Make your selection and click **OK** to proceed with installation.



### **Step 4: Review the Software License Agreement**

Review the software licensing agreement and, if you agree to its terms, click **Yes** to proceed with installation.

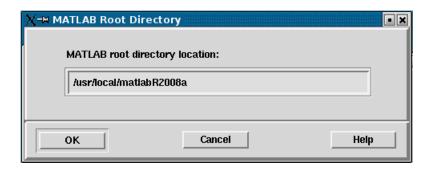


# **Step 5: Specify Installation Directory**

Specify the name of the directory in which you want to install MathWorks products. When choosing a name for your installation directory, do not specify a name that contains an at (@) sign, the per cent (%) character, a plus sign (+), an exclamation point (!), or a dollar (\$) sign, or that includes a directory named private as part of the path. Click **OK** to proceed with the installation.

If the directory does not exist, the installer displays a dialog box asking if you want to create it. Click **Create** to create the directory and then click **OK** in the MATLAB® Root Directory dialog box.

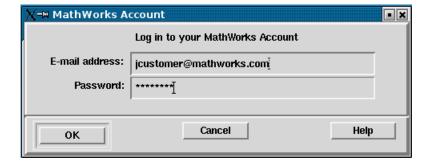
**Note** When upgrading an existing installation, always install the new release in a new installation folder. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.



### Step 6: Log In to Your MathWorks Account

Enter your e-mail address and password to log in to your MathWorks Account.

Click **OK** to proceed with installation.



# Step 7: Select the License You Want to Install

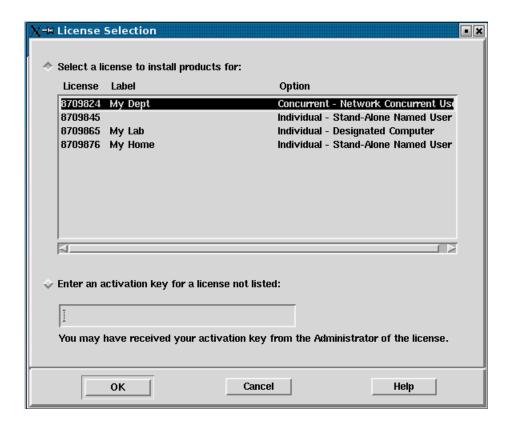
When you log in to your MathWorks Account, the installer displays all the licenses associated with your account. Each row contains:

• License number

- An optional descriptive text label that can help identify a license. To label
  a license, go to the License Center at the MathWorks Web site. See the
  License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type has not yet been set on the license, the word "Unset" appears.

Select the license you want to install from the list of licenses associated with your account. For a network configuration, select a Concurrent license from the list. Click **OK** to proceed with the installation.

If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license but does not associate the license with your account—that occurs when you activate the license.



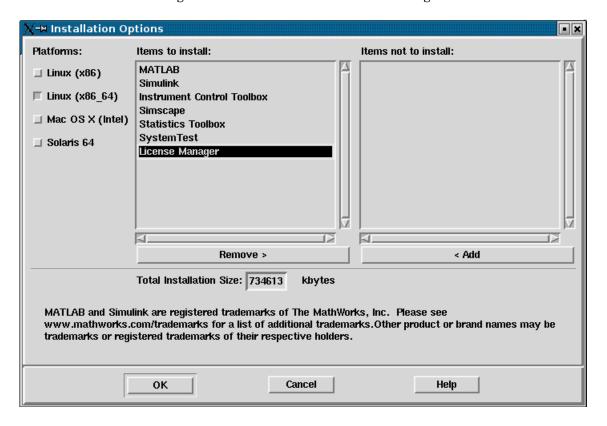
# **Step 8: Specify the Products to Install**

Specify the products you want to install in the Installation Options dialog box, and then click  $\mathbf{OK}$  to continue. Your product selection depends on your network configuration:

- If you are installing only the license manager on a server, select all the
  other products and click **Remove**. This moves the products to the **Items**not to install list.
- If you are installing the license manager and MathWorks products on the same server, leave all the products in the Items to install list.

• If you are installing the software on a client computer, do not install the license manager. Select the license manager in the list and click **Remove**. This moves the products to the **Items not to install** list.

See the License Administration Guide for more information about network configurations that include the license manager.



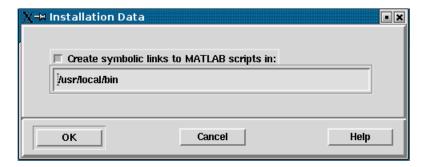
The **Platforms** column identifies which product binary files are installed. By default, the check box identifying the platform on which you are running the installer is preselected. If you want to install product binary files for additional platforms, select them in the **Platforms** column.

**Note** The installer might display a message box stating that one or more of your licensed products are not available on the DVD. To obtain products that have been released since the DVD was produced, visit the MathWorks Web site, www.mathworks.com, and download them. Click **Close** to continue with the installation.

# **Step 9: Specify Location of Symbolic Links**

If you installed MathWorks products as part of your installation, you can specify where you want to put symbolic links to the matlab and mex scripts. Specify a directory such as /usr/local/bin that is common to all your users' paths. If you only installed the license manager, the installer does not display this dialog box.



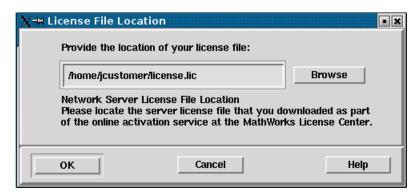


# Step 10: Specify Location of License File

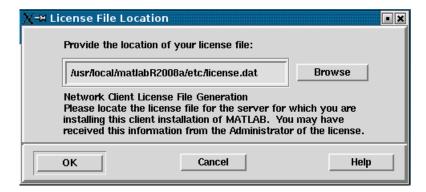
Specify the path for the License File and click OK.

The License File you specify depends on whether you are installing the license manager on a server or installing MathWorks software on a client computer in your network configuration. (See the License Administration Guide for information about network configurations.) Note that the text displayed on the dialog box changes, depending on whether or not you are installing the license manager.

• If are installing the license manager, specify the name of the License File you received from The MathWorks.



• If you are *not* installing the license manager, specify the name of the License File on your license server—see "License File Processing on Server and Client" on page 1-43 for more information.



### **License File Processing on Server and Client**

During a server installation, where you install the license manager, you must specify the location of the License File you received from The MathWorks. The installer performs the following processing of this License File:

Makes a copy of your License File, naming it license.dat, and puts this
copy of the License File in the /etc directory of your MATLAB installation
directory.

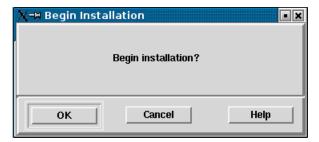
Adds a SERVER line and a DAEMON line to the file. The SERVER line identifies
the server (host and port number). The DAEMON line identifies the name of
the license manager daemon (matlabroot/etc/lm matlab)

During a client installation, where you do not install the license manager, you must specify the location of the License File that the installer processed during installation of the license manager on the server. The installer performs this processing of the License File on client systems:

- Makes a copy of the License File on the server, naming it network.lic, and puts the file in the /licenses directory in your MATLAB client installation directory.
- Deletes all the product information and the DAEMON line in the License File, leaving the SERVER line. Adds the statement USE\_SERVER to the file.

# **Step 11: Begin the Installation**

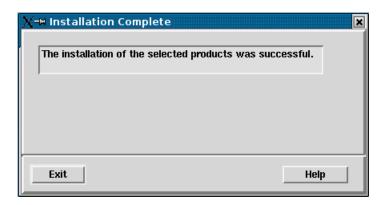
The installer displays the Begin Installation dialog box. Click **OK** to begin the installation.



After you click **OK**, the installer displays a dialog box indicating the progress of the installation.

# **Step 12: Complete the Installation**

After the installation is complete, the installer displays the Installation Complete dialog box. For network installations, you do not need to activate the software as a separate process after installation. The License File you specified during installation was already activated by The MathWorks. Click **Exit** to dismiss the installer.



If you installed the license manager, you must start it. The license manager must be running to start the MATLAB software. See "After You Install" on page 1-46 for more information.

# **After You Install**

#### In this section...

"Starting the License Manager" on page 1-46

"Starting the MATLAB® Program" on page 1-50

"Specifying Print Options" on page 1-51

"Specifying Documentation Viewing Options" on page 1-51

"Specifying MATLAB® Startup Options" on page 1-51

"Validating an Installation" on page 1-51

**Note** For more information about setting up network configurations, see the *License Administration Guide*.

# **Starting the License Manager**

The license manager must be running to start MATLAB® software. This section describes how to start the license manager at the command line and automatically at boot time.

- "At the Command Line" on page 1-46
- "At Boot-Time" on page 1-47

### At the Command Line

If the license manager daemons are not running, you can start them by executing the lmstart script (located in the *matlabroot*/etc directory). The lmstart script stops any currently running daemons and starts new ones.

**Note** A user other than root should run the lmstart script because it is a security risk to run any program as root that does not require root permissions. The license manager (lmgrd) does not require root permissions. If you must start the license manager as root, use the UNIX® su command to start lmgrd as a nonprivileged user:

su username -c "lmgrd -c license\_file -l /var/tmp/LM\_TMW.log"

where username is a nonprivileged user.

### At Boot-Time

You can start the license manager automatically at boot-time by editing the system boot script. The MathWorks provides the set of Bourne shell commands required to start the license manager on each UNIX system. These boot script files are in the <code>matlabroot/etc</code> directory. Each file has the name <code>flexnet.boot.system</code>, where <code>system</code> identifies the system type.

For example, the following is the contents of the file flexnet.boot.linux, which contains the boot script commands required to start the license manager on Linux® systems. When you add these commands to a boot script, you must replace the word <code>username</code> that is used as an argument to the <code>/etc/lmboot\_TMW</code> command in the script (highlighted below) with an actual user name (login name). Do not specify the name associated with superuser. For security reasons the license manager daemons cannot be owned by superuser.

```
#!/bin/sh
case "$1" in
   start)
        if [ -f /etc/lmboot TMW ]; then
            /etc/lmboot TMW -u username && echo 'MATLAB lmgrd'
        fi
   stop)
             -f /etc/lmdown_TMW ]; then
        if
                /etc/lmdown TMW > /dev/null 2>&1
        fi
        ;;
      echo "Usage: $0 {start|stop}"
      exit 1
       ;;
esac
exit 0
```

The following sections describe how to insert these Bourne shell code fragments for all supported platforms:

- "Editing the Boot Script on Linux® Systems" on page 1-48
- "Editing the Boot Script on Solaris™ Systems" on page 1-50

**Editing the Boot Script on Linux Systems.** To create the boot script on Linux systems, make a copy of the flexnet.boot.linux file and edit the copy as described in the following procedure. You can use the same procedure to create the boot script on both 32-bit and 64-bit Linux systems.

- 1 Log in as root.
- 2 Create the following links, if they do not already exist.

```
ln -s matlabroot/etc/lmboot /etc/lmboot_TMW
ln -s matlabroot/etc/lmdown /etc/lmdown TMW
```

**3** Make a copy of the appropriate boot script file.

The following table lists the appropriate commands for supported Linux distributions for both 32-bit and 64-bit systems.

Distribution	Command
Debian or SUSE	<pre>cp matlabroot/etc/flexnet.boot.linux /etc/init.d/flexnet</pre>
Red Hat or Fedora Core	<pre>cp matlabroot/etc/flexnet.boot.linux /etc/rc.d/init.d/flexnet</pre>

- **4** Edit the copy you made of the boot script file, flexnet, replacing the *username* argument to the lmboot\_TMW script in the code with a valid user name, other than root. For security reasons the license manager daemons cannot be owned by superuser.
- **5** Look in /etc/inittab for the default run level.
- **6** Create a link in the rc directory associated with the default run level. The following table lists the appropriate commands for supported Linux distributions for both 32-bit and 64-bit systems, using run level 5 to illustrate.

Distribution	Command
Debian	cd /etc/rc5.d; ln -s/init.d/flexnet S90flexnet
Red Hat or Fedora Core	cd /etc/rc.d/rc5.d; ln -s/init.d/flexnet S90flexnet
SUSE	cd /etc/init.d/rc5.d; ln -s/flexnet S90flexnet

### Editing the Boot Script on Solaris™ Systems.

- 1 Log in as root.
- **2** Create the following links, if they do not already exist.

```
ln -s matlabroot/etc/lmboot /etc/lmboot_TMW
ln -s matlabroot/etc/lmdown /etc/lmdown TMW
```

**3** Copy the boot script code from *matlabroot*/etc/flexnet.boot.sol2 and paste it at the beginning of the file /etc/init.d/lmgrd.

If /etc/init.d/lmgrd does not exist, create it, using these commands.

```
cd matlabroot/etc
cp flexnet.boot.sol2 /etc/init.d/lmgrd
chmod 555 /etc/init.d/lmgrd
```

- 4 Edit the copy you made of the boot script file, /etc/init.d/lmgrd, replacing the username argument to the lmboot\_TMW script in the code with a valid user name, other than root.
- 5 Create the file (link) /etc/rc3.d/S171mgrd, if it does not exist, using this code.

```
cd /etc/rc3.d
ln -s ../init.d/lmgrd S17lmgrd
```

# Starting the MATLAB® Program

Start the MATLAB program by entering the matlab command at the system prompt.

If you did not set up symbolic links during the installation procedure ("Step 9: Specify Location of Symbolic Links" on page 1-9), you must enter the full pathname, <code>matlabroot/bin/matlab</code>, where <code>matlabroot</code> is the name of your MATLAB installation directory.

If you have trouble starting the software, see "Problems Starting the MATLAB® Program After an Installation" on page 2-6 for some troubleshooting tips.

# **Specifying Print Options**

MATLAB software includes default settings for the various options to the print command. If you want to change the site-wide default settings for printing device type and location, you can edit the M-file printopt.m, located in the directory matlabroot/toolbox/local. This file contains options used by the MATLAB print command.

# **Specifying Documentation Viewing Options**

You can specify the Web browser to use with MATLAB software by editing the docopt.m M-file, located in the matlabroot/toolbox/local directory. The MATLAB web function uses the docopt.m file when you specify the -Browser option. It also specifies the browser to use for links to external Web sites from the MATLAB Help browser and from Web menu items.

# **Specifying MATLAB® Startup Options**

To specify startup welcome messages, default definitions, or any MATLAB expressions that you want executed each time a user starts MATLAB software, edit the matlabro.m M-file in matlabroot/toolbox/local. The MATLAB software executes this file automatically each time it starts.

If you do not have write access to matlabrc.m, you can include startup messages, definitions, and MATLAB expressions in a file called startup.m and store this file in the top-level MATLAB installation directory. Use this file to specify the startup behavior of your own MATLAB installation.

# Validating an Installation

Throughout the term of your license, your MATLAB installation periodically contacts The MathWorks to verify that your license is up-to-date. If your license is up-to-date, the validation process is transparent. If it determines that you need to update your license, the validation process displays a dialog box giving you the option to update your license. Validation updates expiring licenses and License Files with product configuration changes. (You can also check for License File updates at any time by selecting the Help>Licensing>Update Licenses option from the MATLAB desktop.)

The administrator contact on a license can modify validation settings for the license at the License Center at the MathWorks Web site. See the License Center Help for more information.

# Deactivating and Removing a MATLAB® Installation

#### In this section...

"Deactivating an Installation" on page 1-53

"Removing a MATLAB® Installation" on page 1-54

# **Deactivating an Installation**

Deactivating an installation renders the MathWorks<sup>TM</sup> software unusable on a particular computer. After deactivating an installation, you might want to also remove the installation from your computer. Deactivating an installation and removing the software are separate steps. You can deactivate an installation without removing the software from your computer. To use the deactivation application on your computer, deactivate before removing your MATLAB® installation. For more information about removing an installation, see "Removing a MATLAB® Installation" on page 1-54.

To deactivate a license on your computer, follow this procedure:

1 Start the deactivation application. Navigate to the *matlabroot*/bin directory and run the deactivate\_matlab.sh script, where *matlabroot* represents your MATLAB installation directory.

```
cd matlabroot/bin
./deactivate matlab.sh
```

You can also deactivate a MATLAB installation by choosing the **Help>Licensing>Deactivate Current License** option on the MATLAB desktop.

- 2 Select the license you want to deactivate in the deactivation application welcome dialog box and click **Deactivate Now**
- **3** When the deactivation application finishes deactivating your license, it displays the Deactivation Complete dialog box.

If it cannot contact The MathWorks, the deactivation application displays the Deactivation Next Steps dialog box. This dialog box contains the *deactivation string*. To complete deactivation, you must go to the

MathWorks Web site, log in to your account, click Manage Licenses, and enter the deactivation string. See the License Center help for more information.

# Removing a MATLAB® Installation

To remove a MATLAB installation from your computer, enter this command

rm -rf matlabroot

where matlabroot represents the name of your top-level MATLAB installation directory. Make sure to exit the MATLAB program and stop the license manager before removing a MATLAB installation. You can use the 1mdown command to stop the license manager. You can find 1mdown, and other license management utilities, in the matlabroot/etc directory.

# **System Requirements**

#### In this section...

"Platforms" on page 1-55

"Other Linux® Distributions" on page 1-56

"Graphics" on page 1-56

"Compilers (for MEX Files)" on page 1-56

"License Management" on page 1-57

**Note** For the most up-to-date information, view the system requirements page at the MathWorks Web site, www.mathworks.com.

### **Platforms**

The following system configurations are supported.

### Solaris™

	Operating Environment	Processor	Disk Space	RAM
64-bit MathWorks <sup>TM</sup> Products	Sun Solaris <sup>TM</sup> 10 Requires all recommended patches.	SPARC®, UltraSPARC	510 MB (MATLAB only)	512 MB (1024 MB recommended)

#### Linux®

	Operating Environment	Processor	Disk Space	RAM
32-bit MathWorks Products	Red Hat Enterprise Linux®, V.4 and above Fedora Core 4 and above Debian 4.0 and above Other distributions	Intel® Pentium (Pentium IV and above) Intel Celeron Intel Xeon Intel Core AMD Athlon <sup>TM</sup> AMD® Opteron	510 MB (MATLAB only)	512 MB (1024 MB recommended)
64-bit MathWorks Products	Debian 4.0 and above SuSE 9.3 and above Other distributions	Intel Pentium (Pentium IV and above) Intel Celeron Intel Xeon Intel Core AMD64	510 MB (MATLAB only)	512 MB (1024 MB recommended)

# Other Linux® Distributions

For any other 32-bit or 64-bit Linux distribution not explicitly listed above, R2008a requires the distribution to be built using Kernel 2.4.x or 2.6.x and glibc (glibc6) 2.3.6 or higher.

# **Graphics**

- (Sun<sup>TM</sup>) 24-bit graphics display for Sun Solaris
- $\bullet \;\; (Linux) \; 16\text{-}, \; 24\text{-}, \; 32\text{-bit OpenGL} \mbox{\@scale} \; cable \; graphics \; adaptor \;$

# **Compilers (for MEX Files)**

To view an up-to-date list of supported compiler versions for creating MEX files, visit the support page on the MathWorks Web site.

# **License Management**

- Some license types require a license server running Macrovision<sup>®</sup> FLEXnet<sup>®</sup> Publisher 11.4, which is provided by the MathWorks Installer
- TCP/IP, on all platforms when using a license server

# **Mounting Your DVD Drive**

### In this section...

"Mounting a DVD Drive Locally" on page 1-58

"Mounting a DVD Drive Remotely" on page 1-58

### Mounting a DVD Drive Locally

If you need to mount a DVD drive to install MathWorks<sup>TM</sup> products, create a directory to be the mount point for the drive (mkdir / dvd) and then execute the mount command appropriate for your system.

**Note** In the example commands, the word *<extension>* represents a part of the actual device name that is site specific. For example, the full device name can include the SCSI port to which your DVD drive is attached. You must supply the full device name when you use these commands.

Platform	Mount Command
Linux®	mount -t iso9660 /dev/dvd /dvd
	On Linux systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3
Sun™ (Solaris)	mount -F hsfs -o ro /dev/dsk/c0t <extension> /dvd On Sun Solaris™ systems, the DVD drive mounts automatically if the volume manager is running.</extension>

# Mounting a DVD Drive Remotely

If the DVD drive is located on a remote system, follow these instructions to mount the drive on your system:

**Note** You must be logged in as superuser to perform these steps. The examples assume /dvd is the default mount point; replace this with the name of your local mount point.

- 1 On the remote system, where the DVD drive is connected, mount it locally using the appropriate mount command from the table in the section "Mounting a DVD Drive Locally" on page 1-58.
- **2** On the remote system, configure the DVD drive so that it is available for mounting on your local system (i.e., exporting). Choose the appropriate export instructions for your platform from the following table.

Platform	Export Instructions
Linux	Add the following line to the exports file, /etc/exports
	/dvd -ro Export this information by executing kill -s SIGHUP pid of rpc.mountd pid of rpc.nfsd
	The process IDs, pid_of_rpc.mountd, and pid_of_rpc.nfsd are returned by the command ps -agx
Sun (Solaris)	Execute share -F nfs -o ro -d <dvd device=""> /dvd</dvd>
	Note that the -d <dvd device=""> is for information purposes only. You can ignore it.</dvd>

**3** On your local system, mount the remote DVD drive using the appropriate mounting instructions listed in the following table. Replace dvd\_host with the actual host name of the remote system to which the DVD drive is connected. Your site may require additional options that are not listed here. Contact your system administrator for information about site-specific options.

Platform	Mount Instructions	
Linux	mkdir /dvd	
	mount -r dvd_host:/dvd /dvd	
Sun (Solaris)	mkdir /dvd mount -F nfs -r dvd_host:/dvd /dvd	

# Troubleshooting

This topic provides information that can help you solve common problems that you might encounter installing MathWorks<sup>TM</sup> software on a UNIX $^{\otimes}$  system.

Problems During the Installation (p. 2-2)

Problems Starting the MATLAB® Program After an Installation (p. 2-6)

Getting Help with License Manager Error Messages (p. 2-11) Describes how to resolve common problems that can occur during installation

Describes how to resolve common problems that can occur after the installation is complete

Lists common license manager errors you may encounter with possible solutions

If you cannot find a description here that matches your problem, check the Release Notes documentation that you received with your products. Release notes contain the most up-to-date information available about products and installation procedures. To get additional installation troubleshooting information, visit the Support page at the MathWorks Web site and click **Installation Troubleshooting**.

# **Problems During the Installation**

#### In this section...

"Problems with File Permission" on page 2-2

"Problems Opening the Display" on page 2-3

"Problems with a Host ID Mismatch" on page 2-3

"Problems with Your DVD Drive" on page 2-3

"Activating Without a MathWorks<sup>TM</sup> Account" on page 2-4

**Note** If you can't find an answer to your problem here, go to the Support page at the MathWorks Web site and click **Installation Troubleshooting**. There you can search for solutions and technical notes that might help.

### **Problems with File Permission**

The installer must have write access to the installation directory. If the installer cannot write to the installation directory, it displays an error message.

To continue with the installation, dismiss the error message dialog and use the chmod command at the UNIX® prompt to change the permission setting of the installation directory. Your file mode creation mask (also known as your user mask) controls the default permissions assigned to new files and directories. You can use the umask command to change this default.

The suggested file permissions are read, write, and execute permission for the user, and read and execute permission for the group and the world (other), represented in a UNIX directory listing as

```
drwxr-xr-x
```

The following example uses chmod to set these permissions on a directory.

chmod 755 matlab

To provide complete access to users, group, and the world, specify the value 777.

# **Problems Opening the Display**

If, after starting OpenWindows or Motif, the installation program outputs the Can't open display error message, enter the following command at the UNIX prompt:

xhost +x

Then restart the installer.

### Problems with a Host ID Mismatch

If the host ID in the comment line of your License File does not match the host ID of the system on which you are performing the installation, the installer displays the following error message on your screen:

Host ID in License File Doesn't Match Host ID of System

This typically indicates that you are using the wrong License File for this system. You can continue with the installation, but you will not be able to start the MATLAB® program.

### **Problems with Your DVD Drive**

To diagnose a problem with a DVD drive:

- Verify that the device is mounted correctly. See "Mounting Your DVD Drive" on page 1-58 for more information.
- Verify that the DVD device file has the correct read and execute permissions. For example, on Linux<sup>®</sup> systems, DVD drives have read-only permission by default. To check a device's permissions, use the UNIX command:

ls -1 device

where *device* is the device name for your DVD drive. To change permissions, log in as superuser and run the UNIX command:

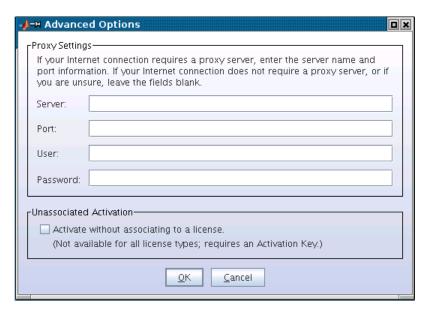
chmod 555 device

# Activating Without a MathWorks™ Account

While every user can benefit from having a MathWorks<sup>TM</sup> Account, it is possible to install and run MathWorks software without one. For example, at some sites, some users may not be able to create an account for security reasons.

To activate without providing MathWorks Account information, follow this procedure.

- 1 Start the installer. On the welcome dialog box, select the install manually without using the Internet option. You will need a File Installation Key. (See "Installing and Activating Without an Internet Connection" on page 1-22 for complete instructions.)
- 2 When the installer finishes installation and displays the Installation Complete dialog box, leave the **Activate MATLAB** option selected and click **Next**.
- 3 In the Activation Welcome dialog box:
  - Choose **Activate automatically using the Internet**. To perform install and activate without associating with a MathWorks Account, you must use the Internet.
  - Click **Advanced Options**. In the Advanced Options dialog box, select the **Activate without associating to a license** option and click **OK**.



- When you return to the Activation Welcome dialog box, click **Next**.
- **4** Enter an Activation Key in the Activation Key dialog box and click **Next**. Because you are not logged into a MathWorks Account, you must enter an Activation Key to identify a license.

**Note** The only activation type available for unassociated activation is Designated Computer.

5 Click Activate.

# Problems Starting the MATLAB® Program After an Installation

After a successful installation, you may encounter problems starting the MATLAB® program. Many of these problems involve the license manager used by the MathWorks $^{TM}$  products.

To resolve this type of problem, follow these suggestions, in the order specified:

- 1 Take note of the error message that is displayed. The error message text can often provide information that can help you resolve the problem. (See "Getting Help with License Manager Error Messages" on page 2-11 to learn how to get information about possible solutions for each error message.)
- 2 Check the license manager log file for error messages and take appropriate corrective action. See "Viewing the License Manager Log File" on page 2-7 for more information. The installer also creates a log file each time it is run. The installer names the file install\_matlab.out and puts the file in your top-level installation directory.
- **3** Make sure that the license manager daemons are running, if your installation requires the license manager. See "Checking the Status of the License Manager Daemons" on page 2-7.
- **4** Verify that your client workstation can connect to the license manager over the network, if your installation requires the license manager. See "Checking the Network Connection" on page 2-8.
- **5** Check the other common startup problems described in "Checking Other Startup Problems" on page 2-9.

If these troubleshooting steps do not resolve the problem you are experiencing, execute the script 1mdebug in the <code>matlabroot/etc</code> directory and send its diagnostic results to the MathWorks Technical Support department. If you do not have e-mail access, fax the results to The MathWorks at the number listed below. For fax reports, it is also helpful to include

- The exact error message(s) received
- A copy of your License File

To contact The MathWorks Technical Support, use this form: http://www.mathworks.com/contact TS.html.

## Viewing the License Manager Log File

The file /var/tmp/lm\_TMW.log contains a log of all license activity. The license manager appends a new entry to the log each time a license transaction occurs. For help interpreting error messages and suggested remedies to common errors, refer to the section "Getting Help with License Manager Error Messages" on page 2-11. The following sections cover these additional log file topics:

- "Specifying the Name of the License Manager Log File" on page 2-7
- "Monitoring the Growth of the License Manager Log File" on page 2-7

## Specifying the Name of the License Manager Log File

To change the default directory where the log file is stored, specify the -1 option with the lmstart script, as follows:

lmstart -1 /home/username/lmlogs/mylogfile.log

## Monitoring the Growth of the License Manager Log File

The license manager log file can grow to be quite large. To conserve disk space, check the size of the log file periodically and delete information from the file to reduce its size. You can also schedule a job (using the UNIX® cron command) that regularly compresses or deletes log files older than a specified date (a process called rotating log files).

## **Checking the Status of the License Manager Daemons**

The license manager must be running before you can start the MATLAB program. To determine whether the license manager daemons are operating, run the 1mstat command on the license server.

cd matlabroot/etc
lmstat -a

You can also run the following UNIX command

```
ps -ef | grep lm
```

Check the output of these commands to determine if both the license manager daemon (1mgrd or 1m\_TMW.ld) and the vendor daemon (MLM) are running.

### **Starting the License Manager Daemons**

If either the license manager or vendor daemon is not running, restart the daemons by running the lmstart script, located in the matlabroot/etc directory.

### **Removing Duplicate Daemons**

You can only run one MLM daemon. To remove duplicate MLM daemons, log in as superuser, and then execute the following command:

```
kill pid_of_daemon
```

where pid of daemon is the process ID of the daemon.

## **Checking the Network Connection**

If either the license server daemon or vendor daemon is not running on your local computer, but is running correctly on the license server, the problem is usually caused by network software. The network software is either not running correctly or is not configured correctly. Verify that your client workstation can connect to the license manager daemons by executing the following commands on your client workstation (not the server).

```
cd matlabroot/etc
lmstat -a
```

To learn how to get help with a particular error message, see "Getting Help with License Manager Error Messages" on page 2-11. In addition, you may need to contact your system administrator or system vendor to resolve the problem.

## **Checking Other Startup Problems**

- "Changes to License File Unread by License Manager" on page 2-9
- "Can't Find License File" on page 2-9
- "The MATLAB® Program Is Slow Starting" on page 2-9
- "License Key Unusable on Crashed Node" on page 2-10

### Changes to License File Unread by License Manager

If you change the License File, you must restart the license manager using matlabroot/etc/lmstart.

The 1mstart script calls the 1mdown script to shut down the license manager daemon. Sometimes the 1mdown script does not succeed at its task. An effective way to shut down the license manager daemons is to use the UNIX ps command to check for running processes, and then terminate them manually using the UNIX kill command. See "Checking the Status of the License Manager Daemons" on page 2-7 for more information.

#### Can't Find License File

The MATLAB program will fail at startup if it cannot find the License File. The installer looks for the License File in the matlabroot/etc directory or at the location specified in the environment variable LM\_LICENSE\_FILE or MLM LICENSE FILE.

## The MATLAB® Program Is Slow Starting

The MATLAB program can take several minutes to start up if one of the entries in the LM\_LICENSE\_FILE environment variable on your system is set to a nonexistent license server or a license server that does not have a license manager running on it.

To work around this issue, try any of the following:

- $\bullet$  Remove the faulty entries from the value of the LM\_LICENSE\_FILE variable.
- Add the location of your License File at the beginning of the list of paths in the LM LICENSE FILE environment variable.

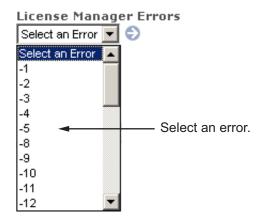
- Clear the LM\_LICENSE\_FILE variable. Note, however, that this option could impact other applications running on your system. MATLAB software does not require this variable, but other applications that use FLEXnet® licensing often set it.
- Remove the LM\_LICENSE\_FILE variable and use the vendor-specific version environment variable for the MathWorks vendor daemon,
   MLM\_LICENSE\_FILE, and for other vendor daemons used at your site. The MATLAB vendor-specific environment variable only affects products from The MathWorks.
- Specify the name of the License File when starting MATLAB software by using the -c option to the matlab command. MATLAB software ignores the LM LICENSE FILE variable when this option is specified.

### **License Key Unusable on Crashed Node**

When the node on which the MATLAB program is running crashes, the license manager should release the license key after about 2 hours. If the key is not released, use <code>matlabroot/etc/lmremove</code> to release it manually. The <code>lmremove</code> script allows you to remove a single user's license for a specified feature and return the license to the pool of available licenses without having to restart the license manager.

## Getting Help with License Manager Error Messages

When a problem occurs, the license manager displays an error message in a window on your display and also writes the message to the **FLEXNET** licensing log file, /var/tmp/lm\_TMW.log. Read the error message carefully; it provides information that can help solve the problem. For more complete diagnostic information about an error message, visit the Support page at the MathWorks Web site (www.mathworks.com) and click **Installation Troubleshooting**. On this page, you can search the support database for solutions by license manager error number or you can select the error number from the **License Manager Errors** menu.



You can also get information about license manager error messages in the *FLEXnet*<sup>®</sup> *Licensing End User Manual*, available in PDF format in *matlabroot*/etc/enduser.pdf or at the Macrovision<sup>®</sup> Corporation Web site, www.macrovision.com.

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