# Installing and Licensing
# MPLAB® XC C Compilers

**Note the following details of the code protection feature on Microchip devices:**

- Microchip products meet the specification contained in their particular Microchip Data Sheet.

- Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.

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# XC Installer & License Manager

**NOTES:**

# Chapter 1. About the Installer and License Manager

This chapter introduces the installers and license managers used in conjunction with MPLAB® XC C Compilers. The next chapter discusses how to install your MPLAB XC C Compiler.

- MPLAB XC C Compilers
- XC Installer

## 1.1 MPLAB XC C COMPILERS

Please see the Microchip website (**http://www.microchip.com/mplabxc**) for more information about available MPLAB XC C compilers and related device support. Each compiler license gives you increased levels of code optimization.

## 1.2 XC INSTALLER

The GUI installer will install a compiler on your PC or network license server. After the installation, you can license the compiler for use.

### Windows 8 Customers - Troubleshooting

If you have trouble running the installer, you can try running in Windows 7 Compatibility mode. To set this mode:

1. Right click on the installer executable.
2. In the File Properties window, click on the Compatibility tab.
3. Under "Compatibility mode", check the "Run the program in compatibility mode for" box and select "Windows 7".

**NOTES:**

# Chapter 2.  Installing Your Compiler

When you install an MPLAB XC C compiler, you are installing an unlicensed compiler. This means that you are running under a FREE license and you have access to the minimum amount of code optimization and support. For greater optimization and support, jump to the licensing sites that are listed near the end of the installation. Acquire a regular or evaluation license, and activate the license.

The following topics describe compiler installation procedures:

- Install a Compiler on a Local Computer
- Install a Network Client
  - Network Server/Client Overview
  - Install a Compiler and Connect to the Network Configuration (Client)
- Installation Flow
- Upgrading the Compiler
- Uninstalling the Compiler

# XC Installer & License Manager

## 2.1 INSTALL A COMPILER ON A LOCAL COMPUTER

The following instructions will guide you through the installation of a compiler for a single user.

When the compiler is installed, you can proceed to get a license. The license can be used for compiler installations on up to three (3) workstations.

### Welcome and License Agreement

From the Welcome screen, click **Next** to continue.

Read the license agreement and accept the agreement to proceed. When you accept, **Next** becomes available. Click it to continue.

### Installation Type

Do not select anything. Click **Next** to continue.

**FIGURE 2-1:** INSTALLATION TYPE SCREEN
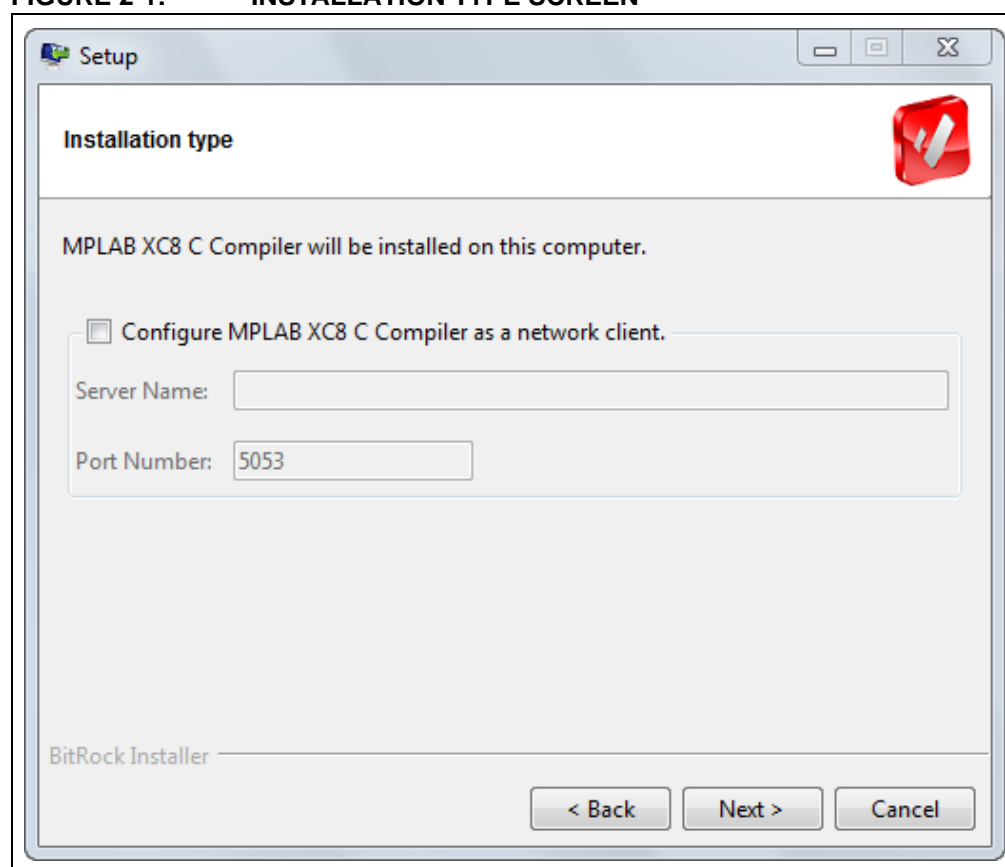


### Continue Installation

To continue installing an MPLAB XC C Compiler, go to the Installation Directory screen under **Section 2.3 "Installation Flow"**.

## 2.2    INSTALL A NETWORK CLIENT

The installation of a network client is covered in this document. For details on installing a network server, see the *MPLAB XC Network License Server* document.

### 2.2.1    Network Server/Client Overview

You may use a computer network to set up a license server and client(s). To do this, use one computer to host the license server and license files. Then, other network computers can contain compilers and license managers that are configured to acquire licenses from the license server.

To install the license server, install the network license and start the server, see the *MPLAB XC Network License Server* document.

To install a license client, follow the steps in the next section. This installation process will ask for details about the network license server. The operating system for the client does not have be the same one used for the server, but it must be supported.

Once configured, compiler executions on the network license client will connect to the network license server to check out a license. This license will be available for immediate use. However, when the compiler is exited, there is a 60-minute delay before that server license can be used by other clients.

**FIGURE 2-2:**        **NETWORK LICENSE CLIENT/SERVER MODEL**
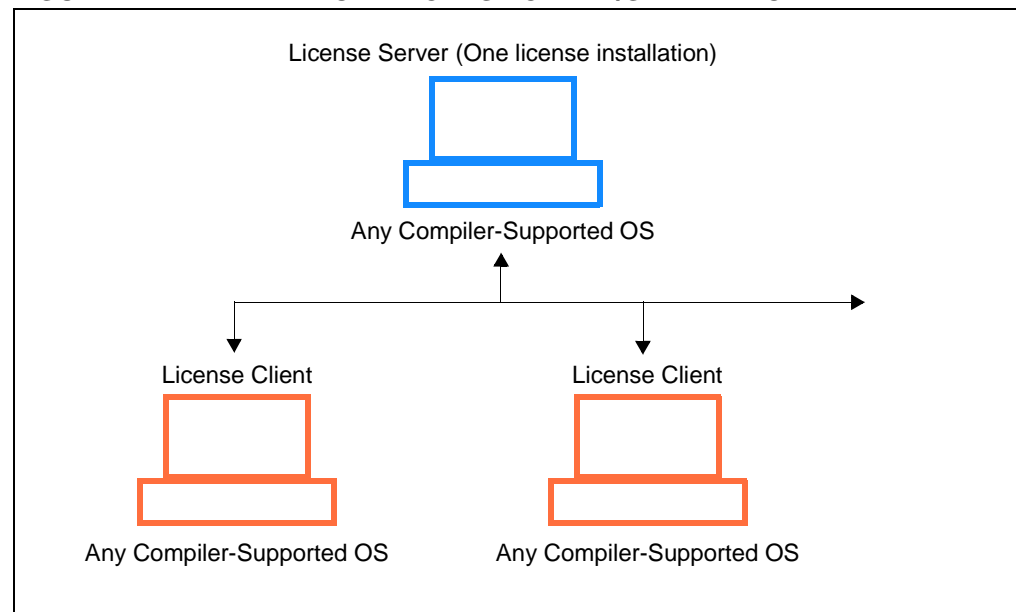
### 2.2.2    Install a Compiler and Connect to the Network Configuration (Client)

When the compiler runs on the network license client, the license manager will check out licenses from the network license server. This section summarizes how the network client compiler is installed.

**Welcome and License Agreement**

From the Welcome screen, click **Next** to continue.

Read the license agreement and accept the agreement to proceed. When you accept, **Next** becomes available. Click it to continue.

**Installation Type**

Choose "Configure MPLAB XC C Compiler as a network client."

Enter information about the network license server here. This information should be provided by your local network administrator.

"Server Name" refers to the IP address or host name of the network license server where licenses are hosted.

"Port Number" is the port that the network server will use to distribute licenses. A default port of 5053 is already filled in. The network license server will always run on this port, unless otherwise specified.

Click **Next** to continue.

**FIGURE 2-3:**        **INSTALLATION TYPE SCREEN**
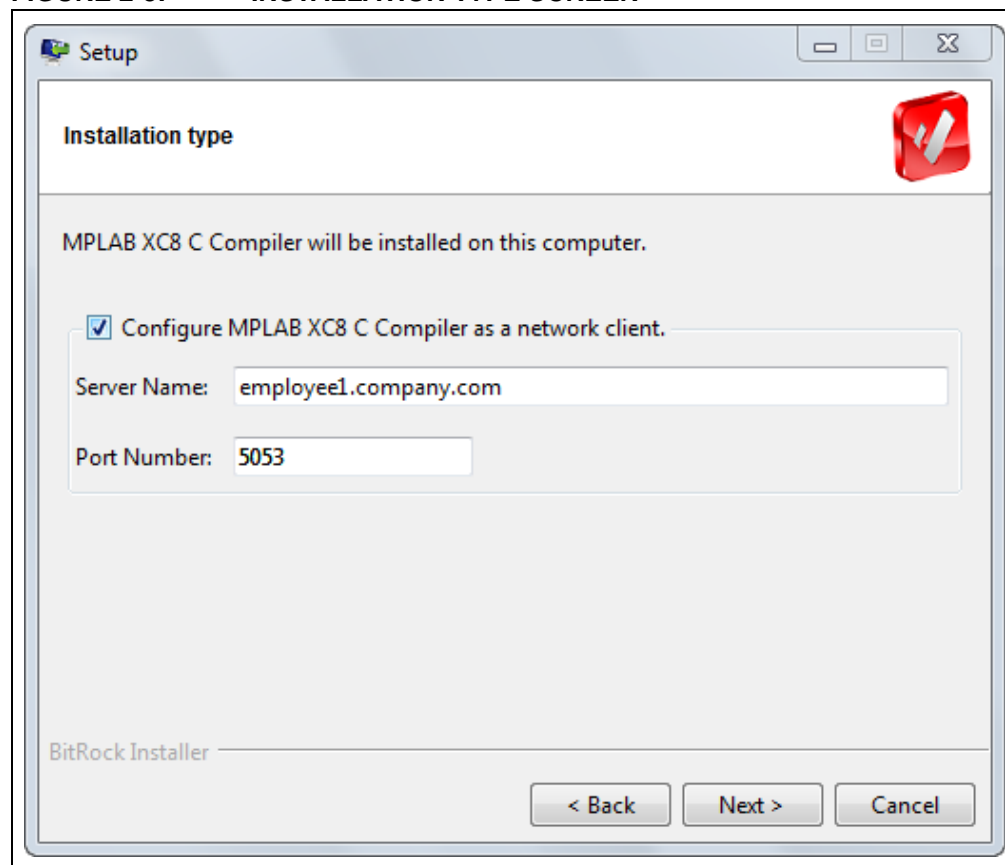
**Continue Installation**

To continue installing a network client from a network license server, go to the Installation Directory screen under **Section 2.3 "Installation Flow"**.

## 2.3    INSTALLATION FLOW

The basic flow of compiler installation is described below. Specific installs are referenced to other sections.

**Welcome**

Launch the compiler installation executable. An "MPLAB Certified" splash screen will appear and then disappear. Then, the Welcome screen will appear. Click **Next** to continue.

**FIGURE 2-4:**        **WELCOME SCREEN**
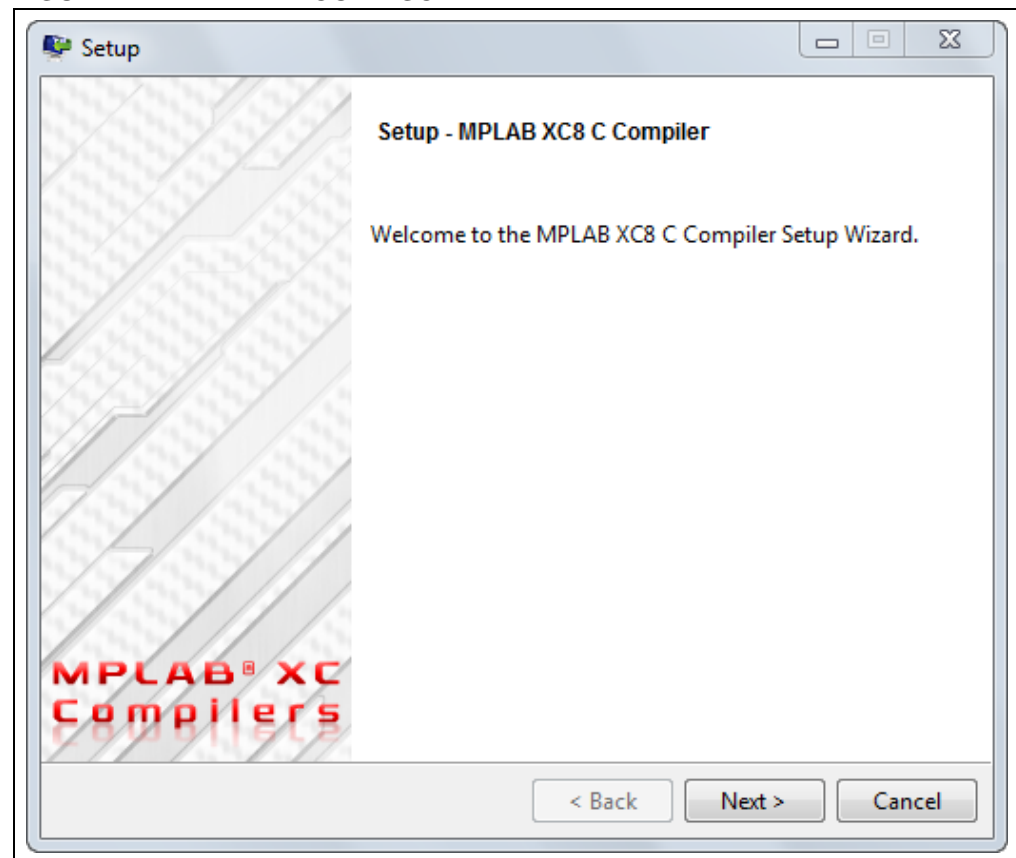
## License Agreement

Read the license agreement, and accept the agreement, to proceed. When you accept, **Next** becomes available. Click it to continue.

If you do not agree, the installation terminates.

**FIGURE 2-5:          LICENSE AGREEMENT SCREEN**
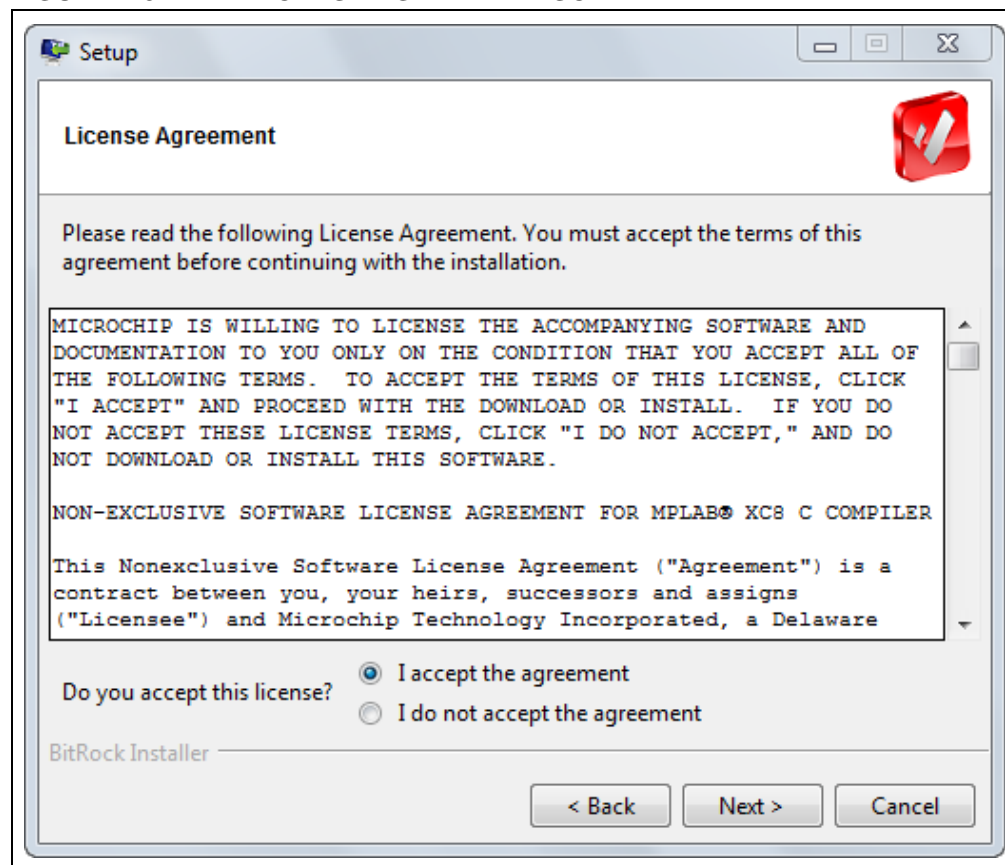
## **Detailed Install Screens**

The next screens will dictate how your compiler is installed.

The most common install is:

• **Section 2.1 "Install a Compiler on a Local Computer"**

For information about installing on a network, read:

• **Section 2.2.1 "Network Server/Client Overview"**

Return to the specified section in this flow when you have finished.

# XC Installer & License Manager

### Installation Directory

Enter or browse to a location to install your compiler. It is recommended that you use the default location displayed in the dialog. Click **Next** to continue.

**FIGURE 2-6:** INSTALLATION DIRECTORY SCREEN
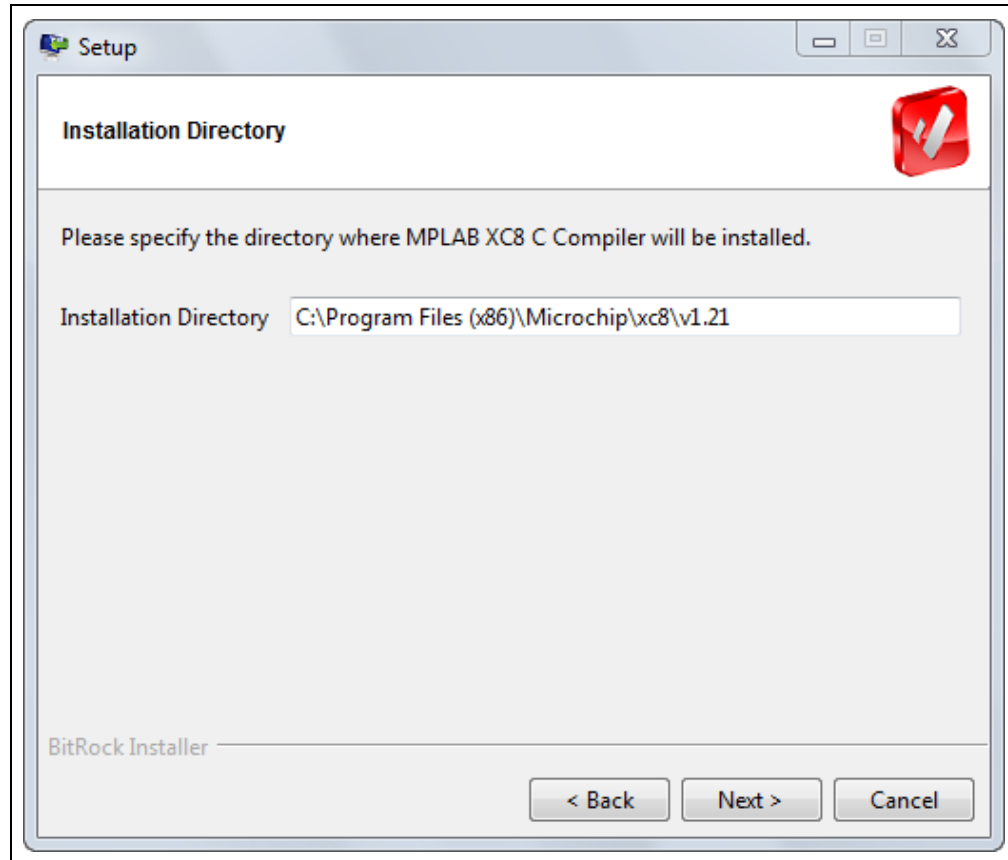
## Compiler Settings

You now have the opportunity to select compiler settings. Check any options you need.

In general, if this is the first time you are installing this compiler on your machine, you should let the installer modify any path or environmental variables to ensure correct compiler operation.

Click **Next** to continue.

**FIGURE 2-7:        COMPILER SETTINGS SCREEN**
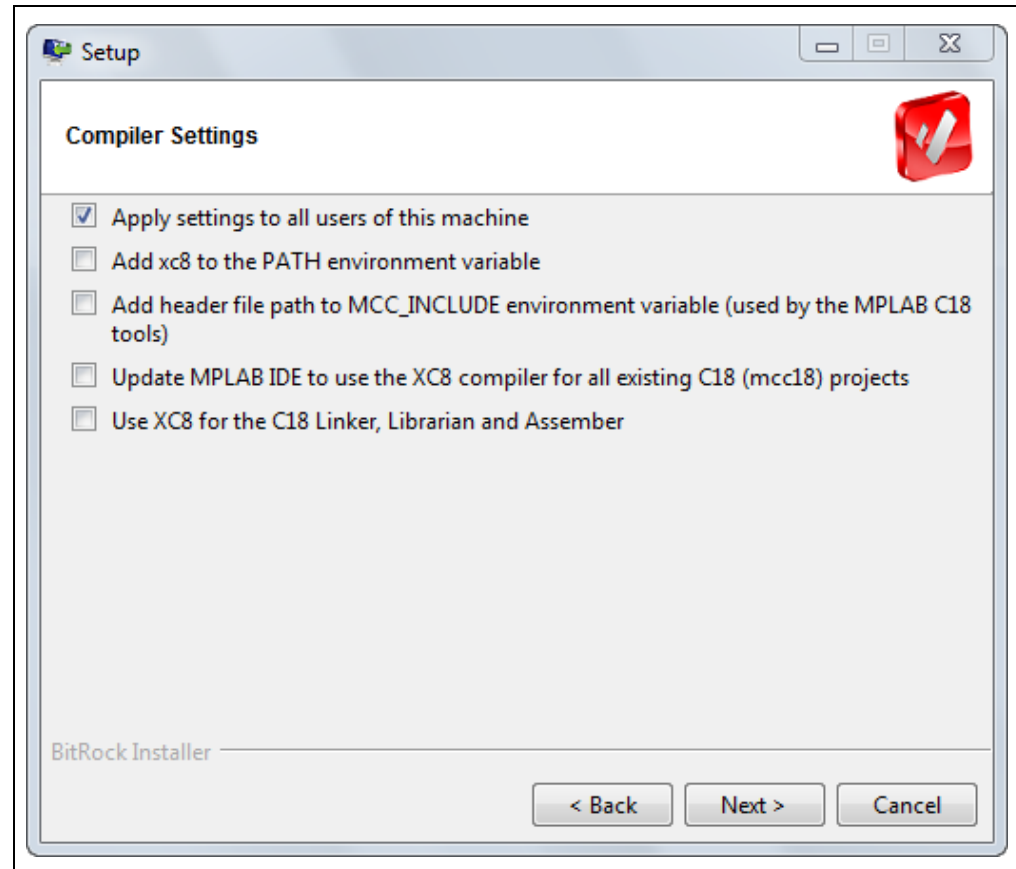
# XC Installer & License Manager

### Ready to Install and Installing

You are now set up to install the compiler. This is your chance to make changes to the compiler settings by using the **Back** button. If you are ready to install, click **Next** to continue.

The next dialog shows the progress of the install. When it is complete, click **Next** to continue.

**FIGURE 2-8:      READY TO INSTALL SCREEN**
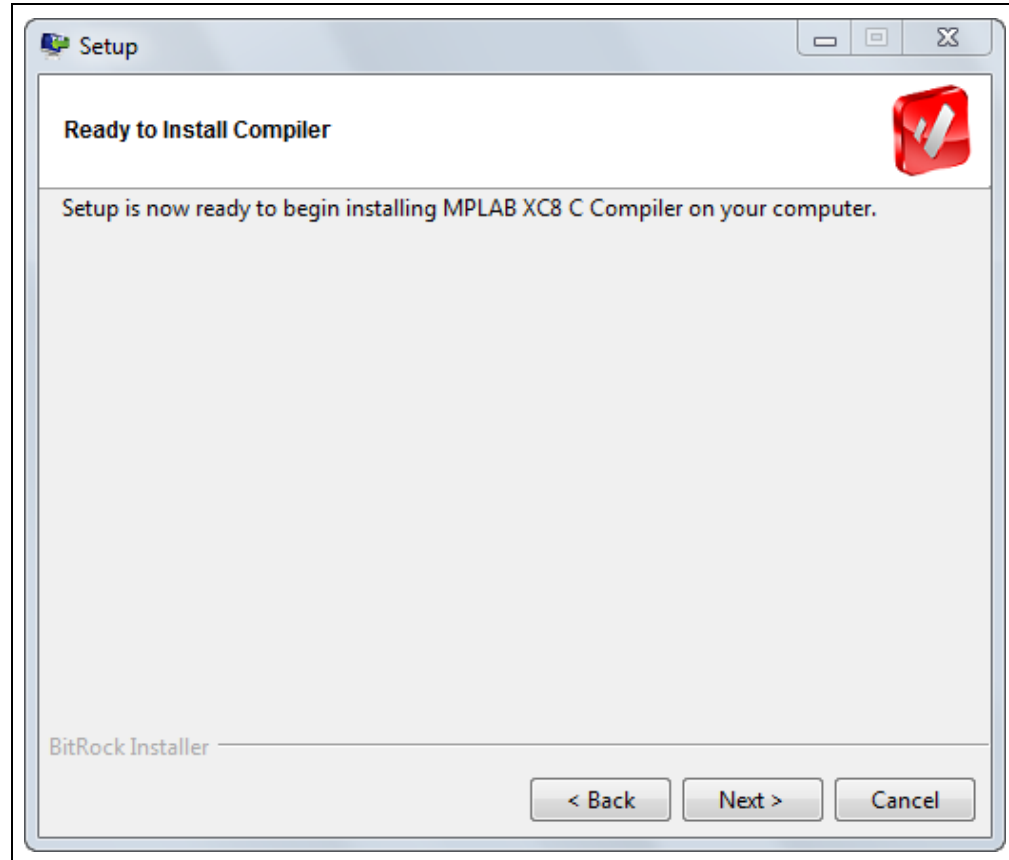
**FIGURE 2-9:** **INSTALLING SCREEN**
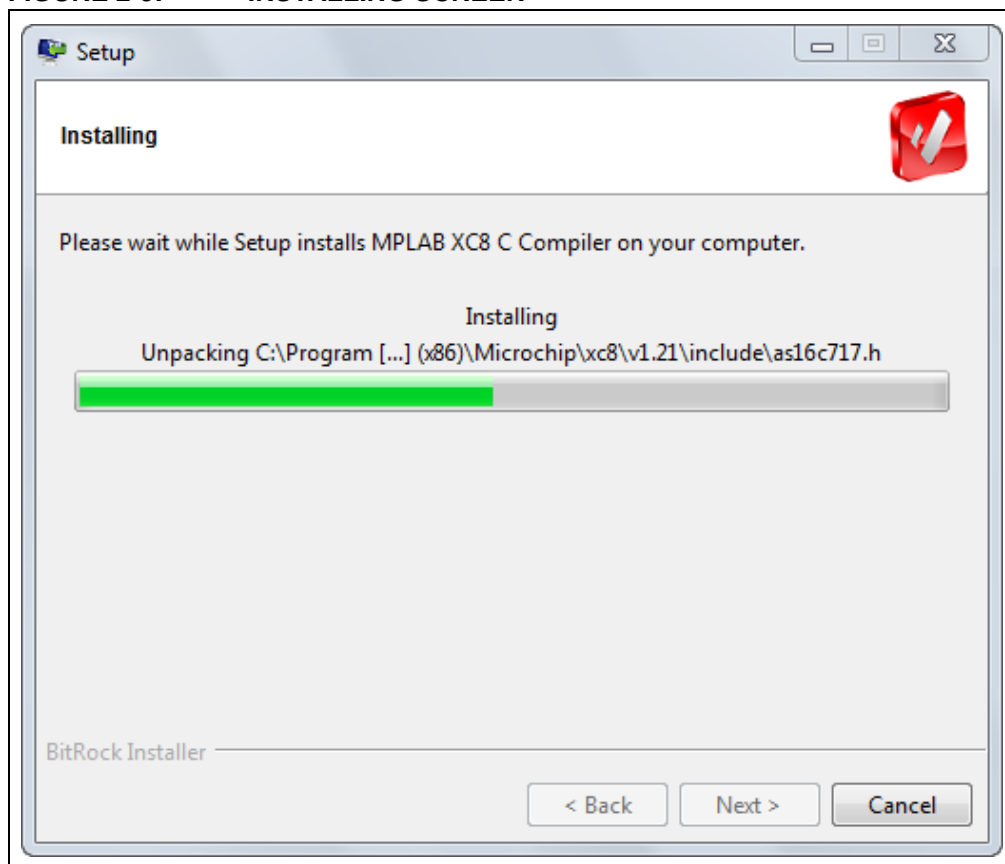
## Licensing Information

A free edition of the compiler (fully functional with minimum optimizations) has now been installed. If you want more code optimizations, you need to license your compiler. You may click one of the links on this screen to:

• Purchase a license
• Get a 60-day-evaluation license of the PRO edition compiler
• Activate a license

For more on licensing, see **Chapter 3. "Licensing Your Compiler"**.

Click **Next** to continue.

**FIGURE 2-10:      LICENSING INFORMATION SCREEN**
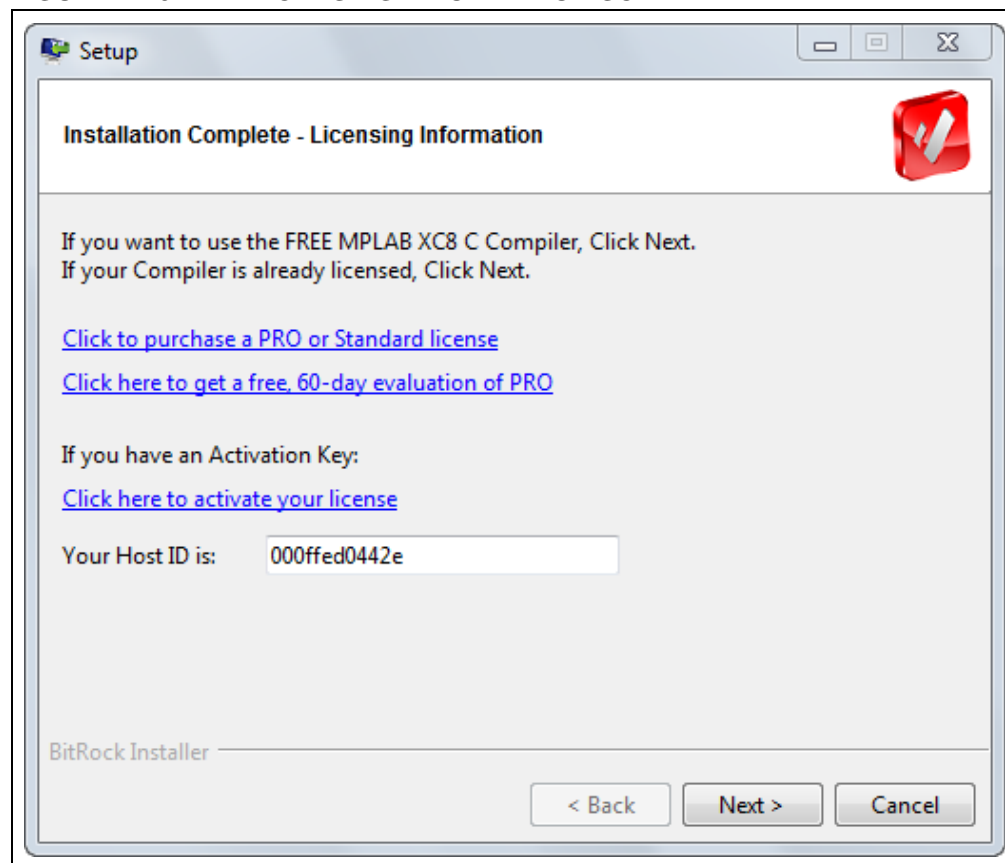
## Completing Setup

The compiler has now been installed. Click **Finish** to complete the install.

If you wish to make changes, you can run the installer again and update your install.

**FIGURE 2-11:     COMPLETING SETUP SCREEN**
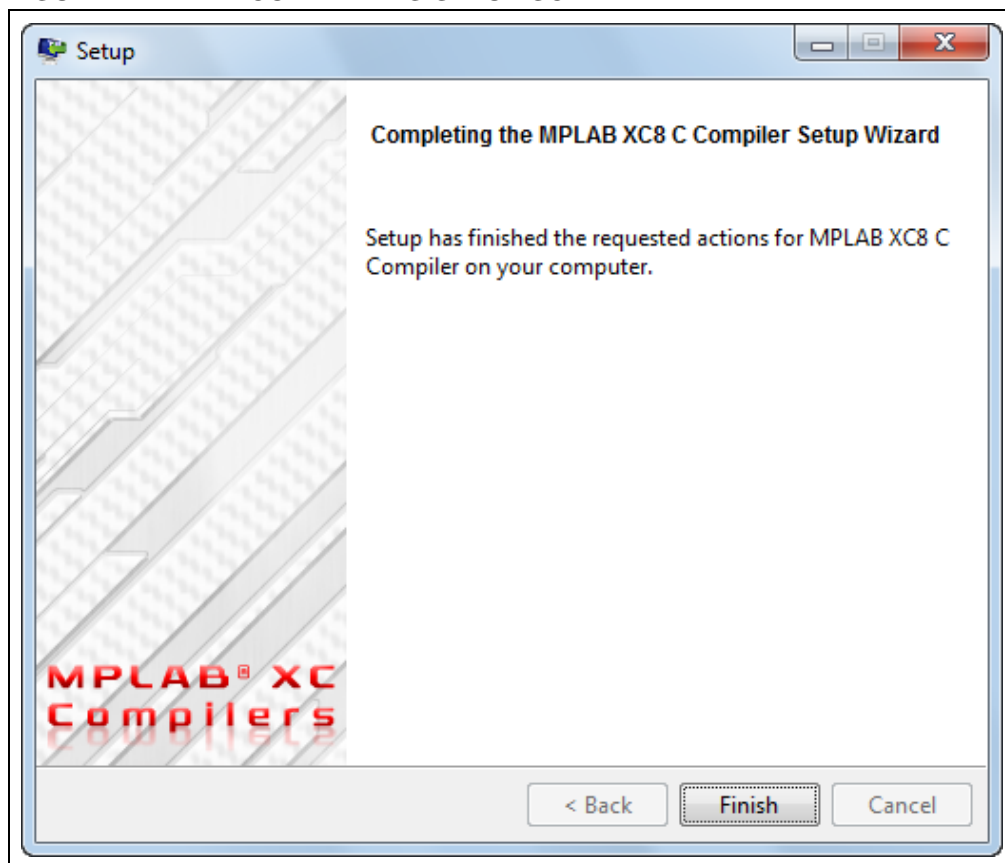
## 2.4 UPGRADING THE COMPILER

To upgrade your compiler, simply install the new compiler as you installed the previous one, but skip over the "Installation Complete - Licensing Information" screen by clicking "Next". Since you already have a license, there is no need to activate or obtain a new license.

## 2.5 UNINSTALLING THE COMPILER

To uninstall the compiler, follow the instructions below.

### Launch Uninstaller

Go to the compiler installation directory and launch "Uninstall MPLAB XC C Compiler". You are asked if you want to uninstall. Click **Yes**.

### Uninstalling

The uninstaller removes all the compiler-related files from your system.

### Uninstall Complete

When the uninstall is done, it displays an "Uninstallation Complete" message. Click **OK** to finish.

> **Note:** The uninstaller does not remove directory structure or path references.

# Chapter 3.  Licensing Your Compiler

Once you have installed your compiler, you will be presented with the following licensing options:

- Purchasing a License
- Acquiring an Evaluation License
- Activating a License

If you already have a license file (i.e., you have purchased a license from microchipDIRECT), there is no need to activate this file, and you are done.

If you do not have a license file, please continue.

## 3.1    PURCHASING A LICENSE

To license your installed compiler, click on the link "Click here if you would like to purchase a license" on the installer Licensing Information screen. The link will direct you to a microchipDIRECT web page where you can select a compiler license to purchase.

If the link in the installation program does not work, copy the following URL into a browser:

http://www.microchipdirect.com/searchparts.aspx?q=mplab%20xc%20compiler&next=0&resperpage=10&filter=Tools%20and%20Software

The types of licenses available are:

- Workstation License: This license may be installed on 3 machines for a single user.
- Network Server License: The license must be installed on a License Server and can be shared with any number of users. A Network Server License can only be used by one user at a time, and that user has exclusive use of the license for 60 minutes.

For details on available types and configurations of MPLAB XC C compilers, see:

http://www.microchip.com/mplabxc/

## 3.2    ACQUIRING AN EVALUATION LICENSE

To acquire a license for a 60-day evaluation of the maximum optimizations and support, click on the link "If you would like to get a 60-day-evaluation license, please click here" on the installer "Licensing Information" screen. The link will direct you to a web page where you can acquire a 60-day PRO license.

http://www.microchip.com/xcdemo/GetDemoLicense.aspx

# XC Installer & License Manager

## 3.3    ACTIVATING A LICENSE

If you already have an Activation Code, click on the link "If you have an Activation Code, please click here to activate a license" on the installer Licensing Information screen. The link will direct you to a web page where you can manually activate your license.

http://www.microchip.com/xcdemo/GetXCLicense.aspx

On the web page:

1.  You will need your host ID (on the Setup Installation Complete dialog) and your XC Activation key. Enter this information where specified.

2.  You may select to either download your license or have it emailed. Choose one of these options and then click **Get XC License**.

To finish license installation:

1.  The license information (that you have downloaded or have received via email) is in the form of a Zip file. In either case, unzip the contents to a temporary location.

2.  Once unzipped, there are three install script windows: windows.bat, linux.sh, and mac.sh. Run the script that is appropriate for your operating system in a Command window (for a Windows operating system) or a Terminal window (for a Mac OS X or Linux) to install the file.

3.  Your compiler license should be installed.

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