Progress | Artix

# Installation Guide

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# Preface

## What This Book Covers

This book discusses the prerequisites for installing Artix and the procedures for installing, configuring, updating, and uninstalling Artix.

## Who Should Read This Book

This book is written for those responsible for installing Artix and assumes familiarity with:

- The hardware and software Artix interacts with.
- The user interfaces, graphical and character, used by Artix and by the hardware and software Artix interacts with.

## How to Use This Book

This book contains the following chapters:

- Chapter 1, Prerequisites, discusses the things you should do and think about before installing Artix.
- Chapter 2, Installing Artix, describes various ways of installing Artix.
- Chapter 3, Configuring Artix, discusses the things you might have to do or think about after installing Artix.
- Chapter 4, Uninstalling Artix, describes how to uninstall Artix.

## Artix Documentation Library

For information on the entire Artix Documentation Library, including organization, contents, conventions, and reading paths, see *Using the Artix Library* available at the Artix 5.6 Product Documentation Web page .

CHAPTER 1

# Prerequisites

*This chapter discusses what you should do and think about before installing Artix.*

**In this chapter**

This chapter contains the following sections:


| | |
|---|---|
| Pre-Installation Tasks | page 24 |
| Pre-Installation Considerations | page 25 |

# Pre-Installation Tasks

**Overview**

This section discusses what you should do before installing Artix.

**Read the release notes**

Before installing Artix:

- Visit the Artix 5.6 Product Documentation Web page.
- Read the Artix Release Notes for late-breaking information on new features, known problems, and other release-specific information.

There may also be updates to this *Installation Guide* available at the Artix 5.6 Product Documentation Web page.

# Pre-Installation Considerations

**Overview**

This section discusses what you should think about before installing Artix.

**In this section**

This section discusses the following topics:


| | |
|---|---|
| Supported Platforms, C++ Compilers, JREs, and JDKs | page 26 |
| Operating System Patch Requirements | page 28 |
| C++ Compiler Requirements | page 30 |
| Java JRE and JDK Requirements | page 31 |
| Interoperability | page 33 |
| Virtualization Support Requirements | page 34 |
| RAM Requirements | page 35 |
| Disk Space Requirements | page 36 |

# Supported Platforms, C++ Compilers, JREs, and JDKs

**Platforms and compilers**

Artix 5.6 is supported on Windows, Linux, and UNIX.

Table 1 shows the supported operating systems, hardware platforms, C++ compilers, JREs, and JDKs.

For the latest version of this information, see the Artix Platform Support Web page.

**Table 1:** *Supported Platforms and Compilers*

| Operating System | Hardware | C++ Compilers | JDK/JRE |
|---|---|---|---|
| Windows XP SP2[1] | x86_32 | Visual Studio 2008 (VC9)<br>Visual Studio 2010 (VC10) | 1.6.0_25 or higher |
| Windows Vista [1] | x86_32 | Visual Studio 2010 (VC10) | 1.6.0_25 or higher |
| Windows Server 2008 R1[1] | x86_32 | Visual Studio 2010 (VC10) | 1.6.0_25 or higher |
| Windows 7 | x86_32 | Visual Studio 2010 (VC10) | 1.6.0_25 or higher |
| HP-UX 11i (11.23) (32-bit)[2] | PA-RISC | aCC 3.7x | HP Java 1.6.0_10 or higher |
| HP-UX 11i (11.31) (64-bit)[3] | Itanium | aCC 6.2.x | HP Java 1.6.0_10 or higher |
| Red Hat Enterprise Linux AS 5.0 (32-bit)[1] | x86_32 | GCC 4.1.x | 1.6.0_15 or higher |
| Red Hat Enterprise Linux AS 5.0 (64-bit)[1,4] | x86_64 | GCC 4.1.x | 1.6.0_22 or higher |
| Solaris 10 (32-bit) | SPARC | Studio 11<br>Studio 12<br>Studio 12 Update 2 | 1.6.0_18 or higher |
| Solaris 10 (64-bit) | SPARC | Studio 11<br>Studio 12<br>Studio 12 Update 2 | 1.6.0_18 or higher |
| Solaris 10 (32-bit) | x86_64 | Studio 11 | 1.6.0_15 or higher |
| AIX 6.1 (32-bit) | PowerPC | XL C++ 10 | IBM 1.6.0 SR9 FP2 or higher |

**Table 1:** *Supported Platforms and Compilers (Continued)*

| Operating System | Hardware | C++ Compilers | JDK/JRE |
|---|---|---|---|
| AIX 7.1 (32-bit) | PowerPC | XL C++ 10 | IBM 1.6.0 SR9 FP2 or higher |
| AIX 7.1 (32-bit) | PowerPC | XL C++ 11 | IBM 1.6.0 SR9 FP2 or higher |

1. Supported on VMware ESX/ESXi 3.5.0 for virtualization support.
2. For HP-UX 32-bit, the Artix 5.6 C++ runtime libraries support applications built with both the HP-UX Standard and Classic C++ runtimes.
3. For HP-UX 64-bit, the Artix 5.6 C++ runtime libraries support applications built with the HP-UX Standard C++ runtime.
4. 64-bit Linux requires both a 32-bit and 64-bit JVM installed.

.

# Operating System Patch Requirements

**Patches**

Table 2 shows the operating system patches and runtime components for C++ and Java required to run Artix for the supported platforms.

**Note:** See also the Artix Platform Support Web page.

**Table 2:** *Required OS Patches*

| Operating System | Hardware | OS Patches; C++/Java Runtime Environment |
|---|---|---|
| Windows XP | x86_32 | SP2 |
| Windows Vista | x86_32 | |
| Windows Server 2003 | x86_32 | |
| Red Hat Enterprise Linux Advanced Server 5.0 | x86_32 | |
| Red Hat Enterprise Linux Advanced Server 5.0 | x86_64 | |
| Solaris 10 (32-bit) | SPARC | |
| Solaris 10 (32-bit) | x86_32 | |
| Solaris 10 (64-bit) | SPARC | |
| Solaris 10 (64-bit) | x86_64 | |
| HP-UX 11i (11.23) (32-bit) | PA-RISC | PHSS_24638 (aCC runtime); PHCO_24402 (1.0 libc cumulative header file patch 60); PHCO_25452 (1.0 libc cumulative patch 23632); PHSS_24304 (1.0 ld(1) and linker tools cumulative patch 21234) |

**Table 2:** *Required OS Patches*

| Operating System | Hardware | OS Patches; C++/Java Runtime Environment |
|---|---|---|
| HP-UX 11i (11.23) (64-bit) | Itanium | |

# C++ Compiler Requirements

**C++ development requirements**

If you plan to develop Artix applications in C++, or if you want to compile and run any of the Artix C++ samples, you must have a C++ compiler installed on the target machine. Table 1 on page 26 shows the C++ compilers supported by Artix.

When using Visual C++ with Artix on Windows, the Visual C++ environment must be set before starting Artix Designer, as described in "Configuring the Artix Visual C++ Environment" on page 58.

**First run of artix_env script**

Certain Artix-specific makefile settings are generated and set up the first time you run the `artix_env[.bat]` script, as described in "Configuring the Artix C++ Development Environment" on page 57.

# Java JRE and JDK Requirements

**JRE bundled with Artix installer (and alternatives)**

A 1.6.x Java Runtime Environment (JRE) is bundled with Artix for optional installation. Alternatively, the installer also allows you to specify the location of a previously installed system JRE or JDK.

If you do not install the bundled JRE, you must specify the location of an existing JRE or JDK during Artix installation. Make sure the one you specify is at the required release level for your operating system, as specified in Table 1 on page 26.

If you specify the location of an existing JRE or JDK, you might also need to specify its location in the `JAVA_HOME` environment variable. See "Setting the JAVA_HOME Environment Variable" on page 54.

**Specific Java suppliers supported**

Artix supports the specific JRE and JDK versions listed in Table 1 on page 26. In particular, Table 1 specifies:

| Java supplier | Operating system |
|---|---|
| Oracle | Windows, Linux, Solaris |
| IBM | AIX |
| HP | HP-UX |

**Override default JRE for Red Hat systems**

Red Hat Enterprise Linux ships with a GCC-based Java compiler, `gjc`, which is set up by default to provide the system default `java` and `javac` commands. Artix command-line tools do not support the `gjc` compiler, so you must install a an Oracle, and take steps to ensure that its `java` and `javac` commands are used by Artix.

The simplest override method is to install a supported Oracle JDKin its installer's default location, and then specify the location of the Oracle JDK during Artix installation.

You can also manage your Oracle JDK installation with one or more of the following methods:

- Specify the Oracle JDK location in a global `JAVA_HOME` environment variable, as described in "Setting the JAVA_HOME Environment Variable" on page 54.
- Replace the default Java-related symbolic links in `/etc/alternatives`.
- Integrate the Oracle JDK into Red Hat's alternatives system, as described in the alternatives(1) man page.

# Interoperability

**Overview**

This section describes how Artix C++ components interoperate with other Artix components and with third-party products.

**Artix JAX-WS runtime**

The Artix C++ runtime interoperates with the Artix JAX-WS runtime.

**Messaging**

Artix C++ supports the following messaging products:

- IBM WebSphere MQ 5.3, 6.0, and 7.0
- BEA Tuxedo
  - 6.5 on Windows and HP-UX
  - 8.1 on all supported platforms except AIX
- TIBCO Rendezvous 7.2
- SonicMQ 5.x, 6.x

**Transports**

Artix C++ supports the following transports:

- SOAP 1.1 and 1.2
- IIOP 1.1 and 1.2
- HTTP

**Security**

Artix C++ supports the following security products and protocols:

- SiteMinder 4.6.1, 5.6
- Kerberos 5
- LDAP 3.0

# Virtualization Support Requirements

**Overview**

Virtualization is the process of sharing the resources of a single computer across multiple environments, and thereby enabling one computer to do the job of many. Artix 5.6 provides virtualization support on selected platforms.

**Supported platforms for virtualization**

Artix 5.6 includes support for virtualization on the following supported platforms:

- Windows XP
- Windows Vista
- Red Hat Enterprise Linux

**Note:** Each of the above platforms is supported on VMware ESX/ESXi 3.5.0.

# RAM Requirements

**RAM requirements for development tools**

Artix is a development environment that is used in conjunction with other development tools, such as compilers. As such, the Artix tools do not consume more RAM than the associated toolset.

Check with the vendor of the compiler and JDK for your operating system for their minimum RAM requirements. A typical minimum RAM requirement for compilers and JDKs is 512 MB.

**RAM used by Artix container and servers**

The Artix container `it_container[.exe]`, is lightweight, and consumes about 21 KB (Windows) or 43 KB (Linux) on first start. Each hosted server adds another few KB (Windows) or 20+ KB (Linux). A complex Artix bus with many containers and services might consume several hundred KB of RAM. Memory consumption for Solaris, AIX, and HP-UX is comparable to the Linux numbers.

# Disk Space Requirements

**Overview**

This section lists the amount of permanent and temporary disk space required for different installations of Artix 5.6.

**Artix installation disk space**

The disk space requirements for Artix depend on the installation options selected. Table 3 shows the approximate disk space in megabytes for full and runtime-only installations. These numbers include the bundled JRE optionally installed with Artix.

**Table 3:** *Disk Space Used by Artix Installations (Megabytes)*

| Installation Type | Windows VC9 | Windows VC10 | Solaris SPARC | Solaris x86 | HP-UX PA-RISC | HP-UX IA64 | AIX | Linux 32-bit | Linux 64-bit |
|---|---|---|---|---|---|---|---|---|---|
| Full installation | 297 | 298 | 595 | 350 | 1077 | 1179 | 500 | 348 | 355 |
| JRE | 95.5 | 96 | 116 | 102 | 334 | 437 | 119 | 104 | 88 |

**Artix installer disk space**

The disk space used by the Artix installer package is shown in Table 4. This table also shows the disk space used by the Java runtime environment installed with Artix. The JRE numbers are included in the totals in Table 3.

**Table 4:** *Disk Space Used by the Artix Installer (Megabytes)*

| Installation Type | Windows VC9 | Windows VC10 | Solaris SPARC | Solaris x86 | HP-UX PA-RISC | HP-UX IA64 | AIX | Linux 32-bit | Linux 64-bit |
|---|---|---|---|---|---|---|---|---|---|
| Installer | 132 | 136 | 225 | 160 | 377 | 321 | 199 | 151 | 139 |

**Temporary disk space**

In addition to the requirements in Table 3 and Table 4, you will need 300 to 500 megabytes of temporary work space for the installer. By default, this work space is the Windows `TEMP` directory or the UNIX `/tmp` directory.

On UNIX, if the required temporary space is not available on `/tmp`, you can specify a directory on a filesystem with sufficient available space for the Artix installer by setting the `IATEMPDIR` environment variable. For example:

```
IATEMPDIR=/local2/tmp
export IATEMPDIR
```

CHAPTER 2

# Installing Artix

*This chapter describes various ways of installing Artix.*

**In this chapter**

This chapter contains the following sections:


| | |
|---|---|
| Running the Artix Installer | page 40 |
| Installing in GUI Mode | page 43 |
| Installing in Console Mode | page 45 |
| Installing in Silent Mode | page 47 |

# Running the Artix Installer

**Downloading an installation package**

The Artix 5.6 installation package is available for download from Progress ESD Download Center http://www.progress.com/esd.

The following installation packages are available:

**Table 5:** *Artix Installation Packages*

| Description | FileName |
|---|---|
| Progress Artix ESB 5.6 for C++ for Windows VS2008 | PROGRESS_ARTIX_CXX_5.6_WIN_VC9.exe |
| Progress Artix ESB 5.6 for C++ for AIX | PROGRESS_ARTIX_CXX_5.6_AIX.bin.gz |
| Progress Artix ESB 5.6 for C++ for HP-UX PA-RISC | PROGRESS_ARTIX_CXX_5.6_HPUX.bin.gz |
| Progress Artix ESB 5.6 for C++ for HP-UX Itanium | PROGRESS_ARTIX_CXX_5.6_HPUX_64_IA.bin.gz |
| Progress Artix ESB 5.6 for C++ for Linux (64-bit) | PROGRESS_ARTIX_CXX_5.6_LNX_32.bin.gz |
| Progress Artix ESB 5.6 for C++ for Linux (32-bit) | PROGRESS_ARTIX_CXX_5.6_LNX_64.bin.gz |
| Progress Artix ESB 5.6 for C++ for Solaris SPARC | PROGRESS_ARTIX_CXX_5.6_SOL.bin.gz |

**Table 5:** *Artix Installation Packages*

| Description | FileName |
|---|---|
| Progress Artix ESB 5.6 for C++ for Solaris x86 | PROGRESS_ARTIX_CXX_5.6_SOL_X86.bin.gz |
| Progress Artix ESB 5.6 for C++ for Windows VS2010 | PROGRESS_ARTIX_CXX_5.6_WIN_VC10.exe |
| Getting Started with Progress Artix ESB 5.6 for C++ | getting_started.pdf |
| Installation Guide - Progress Artix ESB 5.6 for C++ | install_guide.pdf |
| Release Notes - Progress Artix ESB 5.6 for C++ | release_notes.pdf |

### Installer restrictions

The Artix 5.6 installer has the following restrictions:

- You must not install Artix 5.6 and any other IONA product in the same directory.

  **Note:** Although you could install particular pre-5.6 versions of Artix and particular versions of other IONA products in the same directory, this is *not* true of Artix 5.6.

- You must not load Artix libraries and Orbix libraries into the same process space, unless such usage is explicitly supported and documented.

### Installation modes

You can run the Artix installer in three modes, as described in the following sections:

- “Installing in GUI Mode” on page 43.
- “Installing in Console Mode” on page 45.
- “Installing in Silent Mode” on page 47.

# Installing in GUI Mode

**Overview**

You can run the Artix installer in graphical user interface mode on all supported platforms.

**Running the installer**

To install Artix in GUI mode:

1. Navigate to the directory into which you extracted the installation package and run the installer:

   **Windows**

   ```
   PROGRESS_ARTIX_CXX_5.6_<platform>.exe
   ```

   **UNIX**

   Please ensure that the DISPLAY environment variable is correctly set

   ```
   ./PROGRESS_ARTIX_CXX_5.6_<platform>.bin
   ```

2. Follow the on-screen instructions and respond to each prompt.

Use the information in Table 6 as a guide when selecting installation options as the installation proceeds.

**Table 6:** *Artix Installation Options*

| Platform | Installation Option | Default | Notes |
|---|---|---|---|
| All | The **Choose Install Folder** panel lets you select the top-level directory for your Artix installation. | Windows: `C:\Program Files\Progress\artix_cxx_5.6`<br>UNIX: `/opt/progress/artix_cxx_5.6` | On Windows, do *not* specify a directory whose pathname contains spaces, For example, do not specify a directory under `C:\Program Files`.<br>On UNIX, specify the absolute path to a directory in which your current login name has full read and write permissions. Do not use the ~ abbreviation for home directory. |

**Table 6:** *Artix Installation Options (Continued)*

| Platform | Installation Option | Default | Notes |
|---|---|---|---|
| All | The **Choose Install Set** panel lets you select the components you wish to install. | Full | Specify the runtime-only option when deploying an Artix service for testing or production on a system other than your development system. See Table 8 on page 49 for help in deciding which options to install. |
| All | The **Choose Java Virtual** Machine panel lets you install or select a JVM. | Install a bundled JRE. | Java JRE and JDK issues are discussed in "C++ Compiler Requirements" on page 30.<br>The installer might not identify all JVMs on your system. If you know the exact location of your JRE or JDK, it is faster to navigate to that location than to let the installer search the entire disk. |
| Windows only | The **Choose Shortcut Location** panel lets you specify a location for product icons. | The **Start \| (All) Programs \| Progress Artix** menu for all users | You can select only one location.<br>Some of the location options also allow you to select the **Set for all system users** checkbox. The default is to set up the shortcuts for the current user only. |
| All | The **Save Installation Properties** panel lets you save a properties file containing your installation options. | No | Allows you to save a properties file containing entries for the installation you just completed. This properties file can be used with future automated or silent installations of Artix as described in "Installing in Silent Mode" on page 47. |

3. Click **Done** to finish the installer.

**Note:** A full Artix license file, `licenses.txt`, is automatically installed by default in the *`ArtixInstallDir`*`/etc` folder of your product installation. A 30-day evaluation installation will also automatically install a license file.

# Installing in Console Mode

**Overview**

UNIX users can run the Artix installer in console mode if no graphical-interface windowing environment is available.

**Running the installer**

To run the Artix installer in console mode:

1. Go to the directory into which you extracted the installation package and run the installer as follows:

```
./PROGRESS_ARTIX_CXX_5.6_<platform>.bin -i console
```

2. Follow the on-screen instructions and respond to option prompts. Use the information in Table 6 on page 43 as a guide when selecting installation options as the installation proceeds.

3. The installer prompts you to specify the options to install using a table like the one in Example 1. By default, all options are specified, which is the same as a Full installation. To customize your installation, enter a list of numbers representing the group or feature you want to *exclude* from the installation. Use Table 8 on page 49 as a guide when deciding which group or feature options to install.

**Example 1:** *Installation options menu in console installation mode*

```
1-   [X] C++
2-   |-[X] Runtime
3-   |-[X] Development libraries and samples
4-   |-[X] Artix Locator
5-   |-[X] Security Framework
6-   |-[X] Artix Router
7-   |-[X] Transaction Manager
8-   |-[X] High Availability
9-   |-[X] Session Manager
10-  [X] Development Tools
11-  |-[X] Command-line Tools
12-  [X] Third-party Integrations
13-  |-[X] EMS Integration
14-  |-[X] Amberpoint
15-  |-[X] CA-WSDM
```

**WARNING:** Console installation only works on UNIX systems. Using `-i console` when installing on Windows simply runs a silent installation with default options.

# Installing in Silent Mode

**Overview**

Silent installations are installations that run without user intervention. Their advantage is that they allow you to automate the process of installing Artix on more than one machine.

In an interactive installation, the installer receives necessary user input in response to questions posed in a GUI or console. In a silent installation, you must provide the same information in a properties file.

**Creating the properties file**

First, create a properties file to contain the response values for the silent installation. You can use any name for your properties file and invoke it with the `-f` option when running the installer. Alternatively, you can use the reserved file name `installer.properties`, which is automatically used by the installer.

The easiest way to create a properties file is to go through the steps of an Artix installation, then save the properties of that installation to a file when so prompted at the end of the installation. You can then edit the saved properties file to adjust the way you want your silent installation to proceed.

You can also create a properties file with any text editor.

**Contents of properties file**

The properties file must contain entries for the variables listed in Table 7:

**Table 7:** *Properties File Variables*

| Variable | Description |
|---|---|
| `JDK_HOME` | The path to the root of a JDK or JRE installation. If this variable is set, the installation uses the JDK or JRE specified. If unset, the installation installs a dedicated JRE. |
| `SILENT_ACCEPT_LICENSE_AGREEMENT` | Set to `true` to accept the Artix license agreement |
| `USER_INSTALL_DIR` | Absolute path to the directory where Artix will be installed on the user's machine |
| `INSTALLER_UI` | Set to `silent` for a silent installation |
| `USER_INPUT_SAVE_PROPERTIES_YES_NO` | Set to `No` for a silent installation |

**Table 7:** *Properties File Variables (Continued)*

| Variable | Description |
|---|---|
| `CHOSEN_INSTALL_FEATURE_LIST` | This entry must be one long string containing a comma-separated list of feature codes, with no spaces between entries. The valid feature codes for this variable, shown in Table 8, specify the Artix components you want to install. To specify a Full installation, you must list all group components in Table 8. |

The valid values for the CHOSEN_INSTALL_FEATURE_LIST variable are shown in Table 8.

**Note:** The codes in Table 8 are either group codes or individual feature codes. If you specify a group code, you specify all features in that group.

**Table 8:** *CHOSEN_INSTALL_FEATURE_LIST Feature Codes*

| Feature Code | Group | Feature | Description |
|---|---|---|---|
| CXXCore | C++ | | Specify options in the C++ category to develop C++ services. |
| CXXRT | | Runtime | The infrastructure based on the C++ runtime that allows services and service consumers to interact in a distributed environment. This includes a bus, which handles the delivery of messages between different middleware systems; support for Artix containers; and support for the transports and payload formats supported by this version of Artix. |
| CXXDev | | Development libraries and samples | The standard foundation classes, XML Schema-based type system, WSDL API, and sample code that allow you to build Web service applications or to service-enable existing applications, based on the C++ runtime. |
| CXXLocator | | Artix Locator | An Artix service that allows clients to locate registered services independent of their deployed location. |
| CXXSecurity | | Security Framework | The IONA Security Framework, which includes support for the WS-Security SOAP header format; support for single sign-on and mutual authentication; the IONA Security Service, which provides role-based access control and authentication; and plug-ins to support File Adapter, Netegrity, and LDAP. |

**Table 8:** *CHOSEN_INSTALL_FEATURE_LIST Feature Codes (Continued)*

| Feature Code | Group | Feature | Description |
|---|---|---|---|
| `CXXRouter` | | Artix Router | An Artix intermediary service that redirects messages based on rules defined in the router's contract. An Artix router can be used as a bridge between different communication protocols. |
| `CXXTX` | | Transaction Manager | An Artix plug-in that supports interoperability with a CORBA OTS transaction system. |
| `CXXHA` | | High Availability | Support for service replication, which allows services to remain operational despite hardware or communication failures. |
| `CXXSM` | | Session Manager | A group of Artix plug-ins that work together to control the number of clients that can access a group of services concurrently. The session manager can be used to ensure a given instance is used by only one client at a time, which is useful for service-enabling single-threaded applications. |
| `Develop` | Development Tools | | Tools and utilities for developers of Artix applications. |
| `Command` | | Command-line Tools | Tools used at the shell prompt to generate code from WSDL contracts, and to generate WSDL from code. |
| `Third-p` | Third-party Integrations | | Support for integrating Artix with Enterprise Management Systems from several vendors. (Support for SNMP traps is already included in the base installation.) |
| `EMS` | | EMS Integration | Support for the following separately licensed components: Operational logging; integration with IBM Tivoli and BMC Patrol. |
| `Amber` | | AmberPoint Integration | Support for integrating Artix with the AmberPoint SOA Management System. |
| `CAWSDM` | | CA-WSDM Integration | Support for integrating Artix with the Computer Associates Web Services Distributed Management system (CA WSDM). |

### Example properties file

An example of a properties file is shown below:

```
SILENT_ACCEPT_LICENSE_AGREEMENT=true
SET_PATH=
INSTALLER_UI=silent
USER_INSTALL_DIR=C\:\\IONA\\artix_5.6
USER_INPUT_SAVE_PROPERTIES_YES_NO=No
CHOSEN_INSTALL_FEATURE_LIST=CXXCore,CXXLocator,CXXSecurity,CXXHA
   ,CXXRouter,CXXTX,CXXSM,EMS,Amber,CAWSDM,Third-p,CXXRT,CXXDev,
   Develop,Command
JDK_HOME=
```

**Note:** When including directory paths in the properties file, you can represent path separators in the format `$/$`. This is read by the Artix installer as the correct path separator independent of operating system convention. For example: `C:$/Progress`

If you instead use backslashes in a properties file targeted for Windows systems, you must escape the backslashes by doubling them, and escape the colon in drive letters with a backslash. For example, `C\:\\Progress`.

### Running the installer

To run the Artix installer in silent mode:

1. Save the properties file to the directory into which you extracted the installation package.
2. From the same directory, run the Artix installer with its `-i silent` and `-f` options:

   **Windows**

   ```
   PROGRESS_ARTIX_CXX_5.6_<platform>.exe -i silent -f
      your_properties_file
   ```

   **UNIX**

   ```
   ./PROGRESS_ARTIX_CXX_5.6_<platform>.bin -i silent -f
      your_properties_file
   ```

   As an alternative, if you used the reserved file name `installer.properties`, you do not need to use the `-f` option:

   **Windows**

   ```
   PROGRESS_ARTIX_CXX_5.6_<platform>.exe -i silent
   ```

   **UNIX**

   ```
   ./PROGRESS_ARTIX_CXX_5.6_<platform>.bin -i silent
   ```

**Note:** A full Artix license file, `licenses.txt`, is automatically installed by default in the *`ArtixInstallDir`*`/etc` folder of your product installation. A 30-day evaluation installation will also automatically install a license file.

### Uninstalling a silent installation

After performing a silent installation, the next uninstallation also runs silently.

**Note:** When running a silent uninstallation in Windows, the Add/Remove Control Panel's dialog box might appear to be hung. In fact, the silent uninstallation is proceeding silently. Control is returned to the dialog box when the uninstallation completes.

CHAPTER 3

# Configuring Artix

*This chapter discusses the things you might have to do or think about after installing Artix.*

**In this chapter**

This chapter contains the following sections:


| | |
|---|---|
| Setting the JAVA_HOME Environment Variable | page 54 |
| Configuring the Artix Command-Line Environment | page 56 |
| Configuring the Artix C++ Development Environment | page 57 |
| Configuring the Artix Visual C++ Environment | page 58 |
| More Memory for Java Components on AIX | page 59 |

# Setting the JAVA_HOME Environment Variable

**Windows and JAVA_HOME**

Set the JAVA_HOME environment variable before running the `artix_env.bat` script to set up your command-line development environment.

If you opted to have the bundled JRE installed by the Artix installer, the JAVA_HOME variable in the artix_env.bat file points to the bundled JRE, not to a JDK. You must set the global environment variable JAVA_HOME to point to your JDK installation.

To set the JAVA_HOME environment variable globally for your Windows system, use the **System** Control Panel, **Advanced** tab, **Environment Variables** button. It is not enough to set the variable at the Windows command prompt. Use the 8.3 version of space-containing directory names.

For example:

```
JAVA_HOME=C:\Progra~1\Java\jdk1.5.0_11
```

To determine the 8.3 version of a file or directory name, use the `dir /x` command at a Windows command prompt.

**Note:** The JRE and JDK installers from Oracle do not set the JAVA_HOME environment variable.

**UNIX/Linux and JAVA_HOME**

The Artix installer sets a value for the JAVA_HOME environment variable near the top of the `artix_env` environment-setting script. The path value set is either the path to the bundled JRE, or the path to the alternate JRE or JDK you specified to the installer. Any setting of JAVA_HOME in the shell's global environment takes precedence over the setting in the `artix_env` script.

Red Hat Linux systems ship with a non-Oracle Java JRE and JDK based on GCC `gcj`. To avoid using the Red Hat default `java` and `javac` commands, you must specify the path to an Oracle JRE or JDK during Artix installation, or you must override the path set by the installer by using the JAVA_HOME environment variable. See "Override default JRE for Red Hat systems" on page 32 for further information.

# Configuring the Artix Command-Line Environment

**Setting the Artix development environment for the C++ runtime**

Before running command-line development tools for the C++ runtime, and before running any Artix container, service, or service consumer, you must set up the command-line environment. To do so, use the following commands:

**Windows**

```
> cd ArtixInstallDir\bin
> artix_env
```

**UNIX**

```
% cd ArtixInstallDir/bin
% . ./artix_env
```

This script sets up several Artix-specific environment variables, appends the Artix `bin` directory to the system search path, and appends the Artix shared library directory to the shared library path.

# Configuring the Artix C++ Development Environment

**First run of artix_env script**

Certain Artix-specific makefile settings are generated and set up the first time you run the `artix_env[.bat]` script.

Thus, you must run `artix_env[.bat]` at least once before Artix C++ development can proceed. This first run can be in a shell window that you close immediately afterward.

# Configuring the Artix Visual C++ Environment

**Windows C++ environment**

You must set up Visual C++ environment variables and paths before running any Artix tools. There are two cases:

1. You allowed the Visual C++ installer to configure the global Windows environment.

   In this case, you are ready for Artix development with Visual C++ with no further configuration:

   → For Artix command-line development, run `artix_env` at the command prompt.

2. You did not allow the Visual C++ installer to configure the global Windows environment (for example, if your PC has more than one C++ development environment).

   In this case, you must set the paths and environment variables for Visual C++ from a batch file, `vcvars32.bat`, supplied by the Visual C++ installer:

   → For Artix command-line development, run `vcvars32.bat` at the command prompt, and then run `artix_env.bat`.

# More Memory for Java Components on AIX

On AIX, Java components within the Artix C++ runtime might need additional heap space to function correctly. To increase the default heap space available to these components, set the following environment variable:

```
LDR_CNTRL=MAXDATA=0x80000000@USERREGS
```

For more information on this issue, visit the following Web site:

http://www.ibm.com/developerworks/eserver/articles/aix4java1.html

CHAPTER 4

# Uninstalling Artix

*This chapter describes how to uninstall Artix.*

**In this chapter**

This chapter contains the following sections:


| | |
|---|---|
| Uninstalling on Windows | page 62 |
| Uninstalling on UNIX | page 63 |

# Uninstalling on Windows

### Uninstalling Artix

To uninstall Artix from Windows:

1. From the Windows **Start** menu, select **(All) Programs | Progress Artix | Artix ESB 5.6 for C++ | Uninstall Progress Artix ESB 5.6 for C++**.
2. In the resulting dialog, click **Uninstall**.

As an alternative, you can run the following from a command prompt:

```
ArtixInstallDir\uninstall\Uninstall_artix_version.exe
```

**Note:** Remember that after a silent installation, the next uninstallation is also run silently.

# Uninstalling on UNIX

### Uninstalling Artix

To uninstall Artix on UNIX, run the following script:

```
ArtixInstallDir/uninstall/Uninstall_artix_version
```

**Note:** Remember that after a silent installation, the next uninstallation is also run silently.

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