



# Orbix 6.3.7



## Installation Guide

Micro Focus  
The Lawn  
22-30 Old Bath Road  
Newbury, Berkshire RG14 1QN  
UK

<http://www.microfocus.com>

Copyright © Micro Focus 2014. All rights reserved.

MICRO FOCUS, the Micro Focus logo and Micro Focus Licensing are trademarks or registered trademarks of Micro Focus IP Development Limited or its subsidiaries or affiliated companies in the United States, United Kingdom and other countries.

All other marks are the property of their respective owners.

2014-06-13

# Contents

<b>Installation Prerequisites</b> .....	<b>1</b>
Before You Begin .....	1
Operating Requirements .....	2
Disk Space Requirements .....	2
<b>Installing Orbix</b> .....	<b>5</b>
Launching the Installer .....	5
Installing with the GUI .....	7
Installing Silently .....	10
Installing Service Packs .....	11
Configuring your Environment .....	13
Verifying the Installation .....	15
Troubleshooting .....	17
Further Information .....	17
<b>Uninstalling Orbix</b> .....	<b>19</b>
Uninstalling on Windows .....	19
Uninstalling on UNIX .....	19



# Installation Prerequisites

*Before you install Orbix, check the system requirements, and familiarize yourself with the steps involved in installing the product.*

## Before You Begin

### See the Release Notes

Before installing, visit the documentation web page at: <https://supportline.microfocus.com/productdoc.aspx>, and read the *Release Notes* to check for updates to this *Installation Guide*.

### OS/compiler patch levels

Customers can use the stated minimum base levels for OS/compiler vendor patches that work with Orbix. It is the usual practice of the OS/compiler vendors that later patches are binary compatible with earlier patches.

If for any reason you need to use higher patch levels, please confirm with the OS/compiler vendor that the patches are fully backward compatible with the set required by the Orbix product.

### Migration

For detailed information on migrating from Orbix Application Server Platform 6.0, 5.1, 5.0, Orbix 2000, and Orbix 3.3 to Orbix 6.3, please refer to the migration guides on the documentation web page at <https://supportline.microfocus.com/productdoc.aspx>.

For details on migrating from previous versions of Orbix 6.3, see the *Release Notes*.

### Windows compiler names

[Table 1](#) shows the translation between Microsoft Windows VC names and Visual Studio compiler editions used in this guide. It also shows the version output by Microsoft C/C++ Compiler Driver (`cl.exe`).

**Table 1:** *Microsoft VC and Visual Studio Names*

Visual Studio Edition	VC Name	Output by cl.exe
Visual Studio 2008	VC9	15.x.x
Visual Studio 2010	VC10	16.x.x
Visual Studio 2012	VC11	17.x.x

# Operating Requirements

## Prerequisites

For the latest information on supported platforms and compilers, see:

<http://support.microfocus.com/supportresources/Orbix637SupportedPlatformsList.aspx>

## Java

If you want to use the Administrator Web Console, you must have a JDK installed—a JRE is not sufficient.

## Windows

The following Windows System32 Visual C++ Runtime DLLs are required by the Orbix runtime:

- msvcr90.dll
- msvcp90.dll
- msvcr100.dll
- msvcp100.dll
- msvcr110.dll
- msvcp110.dll

These DLLs are available for download from Microsoft.

If you are installing on Windows and intending to develop systems in C++, you need Microsoft Visual Studio. You should install this before installing Orbix.

## Disk Space Requirements

Table 2 lists the approximate amount of disk space (in MB) required to install Orbix 6.3.7.

**Table 2:** *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Dev. & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Dev. & Runtime
AIX (32-bit)	429	-	484	429	-	484
AIX (64-bit)	-	497	560	-	497	560
HP-UX (Itanium)	475	930	1062	475	930	1062
HP-UX (PA-RISC)	831	1158	1283	831	1158	1283

**Table 2:** *Disk Space Requirements*

Orbix Installer	Orbix Standard Runtime (32-bit)	Orbix Standard Runtime (64-bit)	Orbix Standard Dev. & Runtime	Orbix Enterprise Runtime (32-bit)	Orbix Enterprise Runtime (64-bit)	Orbix Enterprise Dev. & Runtime
Linux AS 4 (gcc 34)	212	381	418	212	381	418
Solaris (SPARC)	251	466	509	251	466	509
Solaris 10 (x86, x64)	240	458	499	240	458	499
Windows 32-bit (VC9)	142	-	190	142	-	190
Windows 64-bit (VC9)	-	162	210	-	162	210
Windows 32-bit (VC10)	142	-	190	142	-	190
Windows 64-bit (VC10)	-	157	205	-	157	205
Windows 32-bit (VC11)	142	-	189	142	-	189
Windows 64-bit (VC11)	-	155	203	-	155	203

**Note:** You also need an extra 10 MB for temporary work space in %TEMP% on Windows, and an extra 5 MB in /tmp on UNIX.

If the required space is not available on /tmp, you can set a different partition for use by InstallAnywhere by setting the environment variable IATEMPDIR to point to this partition, for example: IATEMPDIR=/local2;export IATEMPDIR.



# Installing Orbix

*Before you install Orbix 6.3, check the system requirements and familiarize yourself with the steps involved in installing the product.*

## Launching the Installer

This section explains how to launch the Orbix installer. It includes the following sections:

- [Obtain the installer for your platform](#)
- [Before running the installer](#)
- [Running the installer](#)
- [Installing on UNIX](#)
- [Installation directory](#)
- [Screen resolution](#)

## Obtain the installer for your platform

Ensure that you have the appropriate Orbix installer for your platform. [Table 3](#) shows the installer file names for each supported platform. (For Windows systems, see [Table 1](#) for the equivalence between your Visual Studio edition and the VC number required.)

**Table 3:** *Orbix 6.3.7 Installer Files*

Platform	Orbix installer
Orbix 6.3.7 for Windows (VC9 32-bit)	microfocus_orbix_6.3.7_win_32_vc9.exe
Orbix 6.3.7 for Windows (VC10 32-bit)	microfocus_orbix_6.3.7_win_32_vc10.exe
Orbix 6.3.7 for Windows (VC11 32-bit)	microfocus_orbix_6.3.7_win_32_vc11.exe
Orbix 6.3.7 for Windows (VC9 64-bit)	microfocus_orbix_6.3.7_win_64_vc9.exe
Orbix 6.3.7 for Windows (VC10 64-bit)	microfocus_orbix_6.3.7_win_64_vc10.exe
Orbix 6.3.7 for Windows (VC11 64-bit)	microfocus_orbix_6.3.7_win_64_vc11.exe
Orbix 6.3.7 for AIX (32-bit)	microfocus_orbix_6.3.7_aix_32.bin
Orbix 6.3.7 for AIX (64-bit)	microfocus_orbix_6.3.7_aix_64.bin
Orbix 6.3.7 for HP-UX PA-RISC	microfocus_orbix_6.3.7_hpux.bin
Orbix 6.3.7 for HP-UX Itanium	microfocus_orbix_6.3.7_hpux_64_ia.bin
Orbix 6.3.7 for Red Hat Enterprise Linux	microfocus_orbix_6.3.7_lnx.bin
Orbix 6.3.7 for Solaris SPARC	microfocus_orbix_6.3.7_sol.bin
Orbix 6.3.7 for Solaris x86	microfocus_orbix_6.3.7_sol_x86.bin

You can either download the Orbix installer, or install from a DVD. Contact Micro Focus technical support for details.

For full details of supported platforms and compilers, see [“Operating Requirements” on page 2](#).

## Before running the installer

### Existing Orbix installations

For existing Orbix installations, please note the following:

- Existing installations should be backed up prior to upgrading in case of catastrophic failure (power, disk, and so on) during Orbix 6.3.7 installation.
- If you have a previous version of Orbix 6.3.x installed, point the 6.3.7 installer at your existing Orbix 6.3 directory and it will automatically overwrite the existing version.

For more details on upgrading from a previous Orbix 6.3 version, see [“Installing Service Packs” on page 11](#).

### Setting the PATH variable on Windows

The installer is an executable that requires a Java Virtual Machine. On Windows, the PATH environment variable controls which Java virtual machine is used to install the product.

**Important:** Before you install Orbix on Windows:

- If you are installing a 64-bit version of Orbix, set the PATH environment variable so that a 64-bit Java virtual machine is found first.
- If you are installing a 32-bit version of Orbix, set the PATH environment variable so that a 32-bit Java virtual machine is found first.

If during installation you are prompted to select a Java virtual machine, and a mismatching Java virtual machine is selected, you may encounter problems running the Orbix Configuration tool, as well as problems uninstalling the product.

## Running the installer

To run the Orbix installer file, complete the following steps:

1. Download the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX).
2. Run the installation executable to launch InstallAnywhere:
  - ♦ On UNIX, `microfocus_orbix_6.3.7_<platform>.bin`
  - ♦ On Windows, `microfocus_orbix_6.3.7_<version>.exe`
3. Follow the instructions in [“Installing with the GUI” on page 7](#).

## Installing on UNIX

The following apply to UNIX operating systems:

- The installer is a Java application that can be run in GUI or console mode. By default, the installer runs in GUI mode. To run the installer in console mode, run it as follows:

```
microfocus_orbix_6.3.7_<platform>.bin -i console
```

## Installation directory

When entering the pathname for your Orbix 6.3 installation, be sure to enter an absolute pathname, without wildcards. Do not use the ~ character in a UNIX pathname.

**Note:** Spaces in directory paths are supported on Windows only. Spaces are not supported on UNIX platforms.

**WARNING:** No part of Orbix should be installed on an NFS-mounted file system. All Orbix services should be run with local persistent stores.

## Screen resolution

To use the Orbix 6.3 GUI, you should set your screen color depth to at least 256 colors.

## Installing with the GUI

To install Orbix 6.3 on your system, run through the following screens.

### Introduction

When the installer starts, an introduction screen displays information about the product.

Click **Next** to proceed.

### License Agreement

When you have read through the License Agreement, select the **I accept the terms of the License Agreement** radio button, and click **Next** to proceed.

### Choose Install Folder

Choose an install folder for Orbix 6.3 as follows:

#### Windows

The default install path is:

```
C:\Program Files\MicroFocus\Orbix
```

**Note:** If you are installing a 32-bit version of Orbix on Windows 64-bit, you must change the install path to C:\Program Files (x86)\.... On Windows 64-bit, all 32-bit applications must use this path. 64-bit versions of Orbix can use C:\Program Files\....

The following table shows the recommended install paths:

	<b>Orbix 32-bit</b>	<b>Orbix 64-bit</b>
<b>Install Path on Win64</b>	C:\Program Files (x86)\...	C:\Program Files\...
<b>Install Path on Win32</b>	C:\Program Files\...	Not supported

## UNIX

The default install path is:

`/opt/microfocus/orbix`

**Note:** You must have root privileges to install to the default location on UNIX.

Click **Next** to proceed.

## Choose Install Set to Install

Choose the product edition for which you have a license. If you are installing on a platform with both 32-bit and 64-bit versions, the options are:

- Enterprise Edition with Development and Runtime
- Enterprise Edition with Runtime (32-bit)
- Enterprise Edition with Runtime (32-bit and 64-bit)
- Standard Edition with Development and Runtime
- Standard Edition with Runtime (32-bit)
- Standard Edition with Runtime (32-bit and 64-bit)

If you are installing on a platform that is only 32-bit or only 64-bit, the options are:

- Enterprise Edition with Development and Runtime
- Enterprise Edition with Runtime
- Standard Edition with Development and Runtime
- Standard Edition with Runtime

In these options:

- **Development and Runtime** installs all Orbix 6.3 development and runtime components.
- **Runtime Only** installs Orbix 6.3 runtime components only.

Click **Next** to proceed.

## Choose Java virtual machine

Under Environment Settings, you are also asked to choose a Java virtual machine for use by Orbix.

Choose one and click **Next** to proceed.

## Set JAVA\_HOME

In addition, if `JAVA_HOME` is not set, you are asked if you want to set it. `JAVA_HOME` is required for the **Orbix Configuration** tool, `itconfigure`, to run.

If you choose not to set `JAVA_HOME`, you must set it manually later. Click **Next** to proceed.

## Environment Settings

The following option only applies to Standard and Enterprise on Windows.

You are prompted to set environment variables and must choose one of the following options:

- Set the variables for all users.
- Set the variables only for the current user.
- I will set them manually later.

**Note:** You must have administrator privileges to set variables for all users on Windows.

Click **Next** to proceed.

## Pre-Installation Summary

Review the Pre-Installation Summary

- If you are satisfied with the details, click **Install**.
- If you want to change any of the details, click **Previous**.

## After installing

A browser is required when the installation completes. If the installer cannot find one it times out eventually with an error. However, the installation has completed. When the installation completes and a browser is available, a Welcome Page is automatically launched. This page contains links to the Release Notes, Tutorials and Demos, to help you get up and running quickly. To view the Welcome Page in the future, open the `index.html` file located in the `OrbixInstallDir\asp\6.3\doc` directory in a browser.

## Documentation

Orbix 6.3 documentation is available on the Orbix documentation web page at:

<https://supportline.microfocus.com/productdoc.aspx>.

The online documentation is frequently updated, so check here for the latest version of the documentation.

# Installing Silently

Silent installations are installations that run without user interaction. The main advantage of this type of installation is that it allows you to automate the process of installing on more than one machine. In a normal (non-silent) installation, the installer receives necessary user input in the form of responses to questions posed in a GUI or on a console. In the case of a silent installation, you must provide this information in an `installer.properties` file. This section outlines how to install Orbix 6.3 silently and provides you with a sample `installer.properties` file. It is divided into the following subsections:

- [Sample installer.properties file](#)
- [Installing silently on UNIX](#)
- [Installing silently on Windows](#)

## Sample installer.properties file

To install silently on either UNIX or Windows, you must create an `installer.properties` file as follows:

```
USER_INSTALL_DIR=${/}$opt$/$microfocus
SHORTCUT_NAME=MicroFocus Orbix
CHOSEN_INSTALL_SET=Enterprise Edition
CHOSEN_ENV=Development and Runtime
JDK_HOME=${/}$usr$/$bin$/$jdk1.5
SET_ENV_VARS=I will set them manually later
INSTALLER_UI=silent
```

The contents of the `installer.properties` file can be explained as follows:

<code>USER_INSTALL_DIR</code>	Specifies the directory into which you want to install Orbix. The directory separator must be escaped and should be specified by using <code>\$</code> and <code>.</code> . This is a prerequisite of <code>InstallAnywhere</code> .
<code>SHORTCUT_NAME</code>	Specifies the shortcut name that will be used for Orbix. This must be set to: <code>MicroFocus Orbix</code> .
<code>CHOSEN_INSTALL_SET</code>	Specifies either: <ul style="list-style-type: none"><li>• Standard Edition; OR</li><li>• Enterprise Edition.</li></ul>
<code>CHOSEN_ENV</code>	Specifies either: <ul style="list-style-type: none"><li>• Development and Runtime; OR</li><li>• Runtime Only.</li></ul>
<code>JDK_HOME</code>	Specifies the JDK that you want to use with Orbix.
<code>SET_ENV_VARS</code>	Specifies that environment variables will be set later. This must be set to: <code>I will set them manually later</code>

INSTALLER\_UI Specifies a silent installation. This must be set to: silent

**Note:** The values shown for SHORTCUT\_NAME, SET\_ENV\_VARS, and INSTALLER\_UI must appear exactly as shown. You set the values of USER\_INSTALL\_DIR, CHOSEN\_INSTALL\_SET, CHOSEN\_ENV and JDK\_HOME.

## Installing silently on UNIX

To install Orbix 6.3 silently on UNIX, complete the following steps:

1. Obtain the Orbix installer file (see [“Obtain the installer for your platform” on page 5](#)).
2. Create an installer.properties file as described in [“Sample installer.properties file” on page 10](#).
3. If you save the installer.properties file in the same directory as the installation executable, run the following command from that directory:

```
microfocus_orbix_6.3.7_<platform>.bin -i silent
```

4. If you save the installer.properties file in a different location to the installation executable, run the following command from that directory:

```
microfocus_orbix_6.3.7_<platform>.bin -i silent -f  
"LocationOfFile"installer.properties
```

If you experience any problems during the installation you can view the log files located in the *OrbixInstallDir/registry/logs* directory of your installation or see [“Troubleshooting” on page 17](#).

## Installing silently on Windows

To install Orbix 6.3 silently on Windows, complete the following steps:

1. Obtain the Orbix installer file (see [“Obtain the installer for your platform” on page 5](#)).
2. Create an installer.properties file as described in [“Sample installer.properties file” on page 10](#).
3. If you save the installer.properties file in the same directory as the installation executable, run the following command from that directory:

```
microfocus_orbix_6.3.7_<platform>.exe -i silent
```

4. If you save the installer.properties file in a different location to the installation executable, run the following command from that directory:

```
microfocus_orbix_6.3.7_<platform>.exe -i silent -f  
"locationOfFile"installer.properties
```

If you experience any problems during the installation you can view the log files located in the *OrbixInstallDir\registry\logs* directory of your installation or see [“Troubleshooting” on page 17](#).

## Installing Service Packs

Orbix 6.3 service packs are released periodically. These service packs provide bug fixes and enhancements for existing installations. This section includes the following topics:

- [Installation instructions with an existing Orbix 6.3 installation](#)
- [Installation instructions without an existing Orbix 6.3 installation](#)
- [Rolling back a service pack installation](#)

## Installation instructions with an existing Orbix 6.3 installation

To install an Orbix service pack with an existing Orbix 6.3 installation, complete the following steps:

Step	Action
1	Download the service pack .bin file or .exe file that corresponds to your operating system from the Micro Focus support site.
2	<p>When updating an existing installation, the installer first backs up your existing Orbix installation into a rollback directory before installing Orbix 6.3.7.</p> <p>The rollback directory is placed within the registry subdirectory:</p> <pre>OrbixInstallDir\registry\rollback&lt;NUMERIC_ID&gt;</pre> <p>To update an existing installation, run the installation executable to launch the Orbix installer and follow the instructions in <a href="#">"Installing with the GUI" on page 7</a> or <a href="#">"Installing Silently" on page 10</a>.</p>

## Installation instructions without an existing Orbix 6.3 installation

If you do not already have Orbix 6.3 installed on your machine, the service pack installer will install it for you. You do not have to download and install Orbix 6.3 before installing the service pack.

To install Orbix 6.3 and the service pack you require, complete the following steps:

Step	Action
1	Download the service pack .bin file or .exe file that corresponds to your operating system from the Micro Focus support site.
2	Extract the installer file into a temporary directory (for example, \temp on Windows, or /tmp on UNIX).
3	<p>Run the installation executable to launch InstallAnywhere.</p> <p>Follow the instructions in <a href="#">"Installing with the GUI" on page 7</a>.</p>

**Note:** If, however, you are installing Orbix 6.3 and Orbix 6.3 Service Pack 1 in the same directory as Artix, you must install Orbix 6.3 first, followed by the service pack.

## Rolling back a service pack installation

To roll back your installation to the Orbix installation that existed on your machine prior to installing this service pack, do the following steps:

Step	Action
1	Remove the following directories from the <i>OrbixInstallDir</i> directory: <ul style="list-style-type: none"><li>• On Windows, remove the asp, bin, and lib directories.</li><li>• On UNIX, remove the asp, shlib, and lib directories.</li></ul>
2	Move the contents of the <i>OrbixInstallDir\registry\rollback&lt;NUMERIC_ID&gt;</i> to the <i>OrbixInstallDir\</i> directory.

## Configuring your Environment

To start using Orbix 6.3, you need to configure a domain and set up the environment for Orbix 6.3. This section provides a brief overview of how to use the **Orbix Configuration** tool, *itconfigure*, to do this. It includes the following:

- [Orbix 6.3 license](#)
- [Using the Orbix Configuration tool](#)

For more detail on configuring your Orbix 6.3 environment, see the [Orbix Deployment Guide](#).

### Orbix 6.3 license

You need a valid license file to start using Orbix 6.3. An e-mail with a *licenses.txt* file attached is sent to you when you receive the product. You should copy this *licenses.txt* file to a desired location, and set the environment variable *IT\_LICENSE\_FILE* to point to the location of your *licenses.txt* file.

Alternatively, launch the **Orbix Configuration** tool and you will be prompted for the location of your license file. For more detail on licensing your Orbix 6.3 environment, see the *Orbix Deployment Guide*.

## Using the Orbix Configuration tool

To configure Orbix 6.3 using the **Orbix Configuration** tool, complete the following steps:

1. Set the environment variable `IT_PRODUCT_DIR` to point to the location where you installed the product.
2. Change directory to the following location:

### Windows

```
OrbixInstallDir\asp\6.3\bin
```

### UNIX

```
OrbixInstallDir/asp/6.3/bin
```

3. Run `itconfigure`. This launches the **Orbix Configuration** tool.
4. If you have not set the environment variable `IT_LICENSE_FILE` before running `itconfigure`, the **Orbix Configuration** tool prompts you for the location where you saved your `licenses.txt` file. Click the **Browse** button and enter the location where you saved your `licenses.txt` file. Then click **OK**. The **Orbix Configuration** tool will install your `license.txt` file into the default license location; that is:  

```
OrbixInstallDir/etc/licenses.txt.
```

If you do not want to install the license file into the default license location, click **Cancel**, and set the environment variable `IT_LICENSE_FILE` to point to the location where your `licenses.txt` file is saved. Then run `itconfigure` again.
5. The **Orbix Configuration** tool prompts you for a unique domain name, a base port number to allocate the TCP/IP ports required by the services, the services you want to run, the communication protocol, as well as the number of replica servers (if any) you want to run.

**Note:** When creating a new configuration domain, ensure that your base port number selection does not conflict with other users on your system.

6. When you have worked through all the screens, the **Orbix Configuration** tool creates a domain configuration file and domain environment scripts. Change directory to the location in which these scripts are created; that is:

### Windows

```
OrbixInstallDir\etc\bin
```

### UNIX

Your domain configuration scripts are created in one of the following locations, in this order:

- i. `etc/opt/progress/bin` if it is writable.
  - ii. `OrbixInstallDir/etc/bin` if it is writable.
  - iii. `$HOME/etc/bin`
7. Set the environment variables necessary for Orbix 6.3 as follows:

### Windows

Run the following environment script:

```
domain-name_env.bat
```

### UNIX

Source the following environment script:

```
domain-name_env
```

8. Start the Orbix services by running the `start_domain-name_services` command, which is located in `OrbixInstallDir/etc/bin/`.

## Verifying the Installation

### Code examples

Orbix 6.3 is installed with a number of code examples that demonstrate the use of specific features of the product. Each code example comes with documentation that explains what the code example does and how to run it. This documentation can be accessed in the `index.html` file in the `demos` directory of your installation.

### Testing a CORBA development installation

To ensure that your Orbix 6.3 development installation is fully operational, run the simple demo located in the `OrbixInstallDir/asp/6.3/demos/corba/orb` directory. Further details on running the simple demo can be found in the `README_CXX.txt` and `README_JAVA.txt` files in the `OrbixInstallDir/asp/6.3/demos/corba/orb` directory.

### Running the CORBA C++ Simple demo

To run the CORBA C++ simple demo, complete the following steps:

1. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos/corba/orb/simple` directory as follows:

OS	Type this:
UNIX	<code>cd OrbixInstallDir/asp/6.3/demos/corba/orb/simple</code>
Windows	<code>cd OrbixInstallDir\asp\6.3\demos\corba\orb\simple</code>

2. Build the C++ programs:

OS	Type this:
UNIX	<code>make -e</code>
Windows	<code>nmake -e</code>

**Note:** The makefile assumes the default installation path. If you install the product elsewhere, you need to set the `IT_PRODUCT_DIR` environment variable to point to your installation, then use `make -e` (or its equivalent) to override make variables with the corresponding environment variables.

3. Start the server:
 

```
cd cxx_server
server
```
4. Open another command prompt and start the client:
 

```
cd cxx_client
client
```
5. The client should return `Done` and then stop. The server must be stopped manually.

## Running the CORBA Java Simple demo

To run the CORBA Java simple demo, complete the following steps:

1. Set `JAVA_HOME` to point to your JDK and set `JAVA_HOME/bin` in your `PATH`.
2. In a command prompt (with the Orbix 6.3 environment set), change directory to the `demos\corba\orb\simple` directory as follows:

OS	Type this:
UNIX	<code>cd OrbixInstallDir/asp/6.3/demos/corba/orb/simple</code>
Windows	<code>cd OrbixInstallDir\asp\6.3\demos\corba\orb\simple</code>

3. Build the Java programs as follows:

```
itant
```

**Note:** Add the following to your Java command line:

```
-Djava.endorsed.dirs="<IT_PRODUCT_DIR>\lib\art\omg\1.3"
```

4. Start the server as follows:

### Windows

```
java -classpath .\java\classes;%CLASSPATH% simple.Server
```

### UNIX

```
java -classpath ./java/classes:$CLASSPATH simple.Server
```

5. Open another command prompt and start the client as follows:

### Windows

```
java -classpath .\java\classes;%CLASSPATH% simple.Client
```

### UNIX

```
java -classpath ./java/classes:$CLASSPATH simple.Client
```

6. The client should return `Done` and then stop. The server must be stopped manually.

The Orbix 6.3 ORB classes are used instead of the Sun classes, by setting the following properties in the demo code:

```
org.omg.CORBA.ORBClass=com.ionacorbart.artimpl.ORBImpl
org.omg.CORBA.ORBSingletonClass=com.ionacorbart.artimpl.
ORBSingleton
```

# Troubleshooting

## Debug window

To view debug output from an installer:

### Windows

Hold down the CTRL key immediately after launching the installer until a console window appears.

### UNIX

1. To enable debug output on UNIX, run the installer as follows:  
`LAX_DEBUG=true <installer_path>/microfocus_<platform>.bin`
2. This will generate debug output to the console.

## Further Information

### Documentation web site

Orbix 6.3 documentation is available to browse and to download on the documentation web page at:

<https://supportline.microfocus.com/productdoc.aspx>

This documentation is frequently updated, so check here for the latest version of the documentation.

### Release Notes

See the Release Notes at:

<https://supportline.microfocus.com/productdoc.aspx>

### Internationalization

If you plan to deploy a CORBA ORB in C or C++ to handle characters other than Latin-1 (English, French, German, and other Western European languages), then some further configuration is required. Please refer to the *Orbix Internationalization Guide* for more information.



# Uninstalling Orbix

*Orbix comes with an automatic uninstaller tool. Before uninstalling Orbix 6.3, you should remove any domains created.*

## Uninstalling on Windows

To uninstall Orbix 6.3 on Windows:

1. Go to **Select Start > Settings > Control Panel > Add/Remove Programs**
2. Select Orbix 6.3.

Alternatively, from a command prompt, run the following:

```
OrbixInstallDir\asp\6.3\etc\installer\uninstaller\uninstall.exe
```

This may leave some files behind, which must be removed manually.

3. Remove any environment variables that might still be set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`, and any CORBA entries in your `PATH`.

For details of all CORBA environment variables, see the *Orbix Administrator's Guide*.

## Uninstalling on UNIX

To uninstall Orbix 6.3 on UNIX:

1. Run the uninstall script:

```
OrbixInstallDir/asp/6.3/etc/installer/uninstaller/uninstall
```

2. Remove the directory manually:

```
OrbixInstallDir/asp/6.3/etc/installer/uninstaller/
```

The uninstaller may leave some files behind, which must be removed manually.

3. Remove:

- ◆ Any environment variables that you set, such as `IT_LICENSE_FILE`, `IT_PRODUCT_DIR`, `IT_CONFIG_DIR`,
- ◆ Any CORBA entries in your `PATH` and `CLASSPATH` and associated library variables (`SHLIB_PATH`, `LD_LIBRARY_PATH`, and so on).
- ◆ Any configuration domains, especially those with “start on boot” services.

For details of all CORBA environment variables, see the *Orbix Administrator's Guide*.

