

XL C/C++ Enterprise Edition V7.0 for AIX®



# Installation guide

*Version 7.0*



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**Note!**

Before using this information and the product it supports, be sure to read the information in “Notices” on page 17.

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This edition applies to Version 7.0 Release 0 Modification 0 of XL C/C++ Enterprise Edition V7.0 for AIX (product number 5724-I11) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Installation guide

This document contains essential information about IBM® XL C/C++ Enterprise Edition V7.0 for AIX, including prerequisites, requirements, and environmental considerations. Please read it carefully before installing XL C/C++ Enterprise Edition V7.0 for AIX. Please also read the **README** file on the CD-ROM, which contains the most current information about XL C/C++ Enterprise Edition V7.0 for AIX. XL C/C++ Enterprise Edition V7.0 for AIX now supports e-licensing. This means that you are required to accept the terms of the product license agreement as part of the installation process. Procedures for accepting license agreements are included in the installation instructions provided in this guide.

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### XL C/C++ packaging and filesets

If you do not want to install all available filesets, you may choose which filesets to install. In addition, you may specify that any fileset that is a prerequisite to a fileset you selected be installed automatically.

When fileset names differ only by the locale code, you can install only the filesets relevant to your desired language and location. The *LANG* environment variable determines which message catalogs are used. The en\_US (English) message catalogs are installed by default. If *LANG* is not defined or is assigned an unsupported locale, en\_US message catalogs are used instead.

*LANG* represents one of the following locale codes:

- en\_US.ISO8859-1
- EN\_US.UTF-8
- Ja\_JP.IBM-943
- ja\_JP.IBM-eucJP
- JA\_JP.UTF-8
- Zh\_CN.GBK
- zh\_CN.IBM-eucCN
- ZH\_CN.UTF-8

### XL C compiler filesets

The following filesets are included in the XL C compiler.

*Table 1. XL C compiler filesets*

Fileset name	Fileset description
vac.C	IBM XL C compiler
vac.C.readme.ibm	IBM XL C iFOR/LS information
vac.man.LANG	IBM XL C compiler manual pages
vac.lib	IBM XL C compiler libraries
vac.aix50.lib	IBM XL C compiler libraries for AIX
vac.licAgreement	IBM XL C electronic license agreement files
vac.msg.LANG.C	IBM XL C compiler messages
vacpp.cmp.rte	IBM XL C compiler application run-time

Table 1. XL C compiler filesets (continued)

Fileset name	Fileset description
memdbg.adt	User heap/memory debug toolkit
memdbg.aix50.adt	User heap/memory debug toolkit for AIX® 5L
memdbg.msg.LANG	User heap/memory debug messages

## C++ run-time filesets

The following filesets are included in the XL C/C++ Enterprise Edition V7.0 for AIX compiler installation package, and must be installed with the compiler.

Table 2. C++ run-time filesets

Fileset name	Fileset description
xlC.adt.include	C++ application development toolkit
xlC.aix50.rte	C++ run-time for AIX 5L
xlC.msg.LANG.rte	C++ run-time messages
xlC.rte	C++ run-time

## XL SMP run-time environment filesets

The following filesets are included in the XL C/C++ Enterprise Edition V7.0 for AIX compiler installation package, and must be installed with the compiler.

Table 3. XL SMP run-time filesets

Fileset name	Fileset description
xlsmg.msg.LANG.rte	XL SMP run-time messages
xlsmg.rte	XL SMP run-time library
xlsmg.aix50.rte	XL SMP run-time library for AIX 5L

## Non-default installation scripts and sample files

The following optional filesets are provided to facilitate compiler installation in a non-default location and are not required for any XL C/C++ component.

Table 4. Optional XL C/C++ filesets

Fileset name	Fileset description
vac.ndi	IBM XL C non-default installation script

## XL C/C++ compiler online help filesets

The following filesets contain the XL C/C++ Enterprise Edition V7.0 for AIX compiler online help.

Table 5. XL C/C++ compiler online help filesets

Fileset name	Fileset description
vac.html.LANG.C	IBM XL C information center
vac.html.common.search	IBM XL C compiler documentation (HTML) search common
vac.pdf.LANG.C	IBM XL C documentation (PDF)



Table 5. XL C/C++ compiler online help filesets (continued)

Fileset name	Fileset description
xlhelp.com	XL Compiler information center

## IBM Distributed Debugger filesets

The following filesets contain the IBM Distributed Debugger version 9.2.9.

Table 6. IBM Distributed Debugger filesets

Fileset name	Fileset description
idebug.client.extras	Debugger interpreted engine for OS/390®
idebug.client.gui	Debugger graphical user interface
idebug.client.olt	Object level trace viewer
idebug.engine.compiled	Debugger engine for compiled languages
idebug.engine.interpreted	Debugger engine for interpreted languages
idebug.help.en_US	Debugger help — U.S. English
idebug.msg.LANG.engine	Debugger engine messages
idebug.msg.LANG.olt	Object level trace messages
idebug.rte.hpj	High-performance Java™ Runtime
idebug.rte.jre	Java Runtime Environment
idebug.rte.olt.Java	Object level trace Java Runtime
idebug.rte.olt.client	Object level trace client controller
idebug.server.olt	Object level trace server

## Bundle installation filesets

The following filesets are included in bundles.

Table 7. Bundle Installation filesets

Fileset name	Fileset description
vac.Bnd	IBM XL C media defined bundles

---

## Installing XL C/C++ Enterprise Edition V7.0 for AIX

You can install XL C/C++ from the CD-ROM or over a network. You can also use the Network Install Manager (NIM) to perform network installs. Refer to the *AIX Network Installation Management Guide and Reference* for information about NIM.

### System prerequisites

- **Operating system:** AIX 5L V5.1, AIX 5L V5.2, or AIX 5L for POWER V5.3
- **Required hard disk space:** 350 MB
- **Common Desktop Environment (CDE):** Common Desktop Environment (CDE) is required for applications and tools with an AIX graphical interface.
- **Required software:**
  - HTML browser (to view documentation)
  - PDF viewer (to view documentation)

## Prerequisite tasks or conditions

- If you have installed a previous version of an IBM C++ compiler, you can not install XL C/C++ Enterprise Edition V7.0 for AIX only. You must also upgrade to XL C/C++ Enterprise Edition V7.0 for AIX.
- By default, installing XL C/C++ Enterprise Edition V7.0 for AIX causes any previously installed IBM C compilers on the system to be overwritten without any warnings. Because this operation also overwrites any configuration file (`/etc/vac.cfg`) that is present, be sure to save a backup copy of any customization you have made to the configuration file before proceeding with installation. You can then add the saved customization to the new configuration file. You should never simply overwrite the new configuration file with an older version.
- It is recommended that you deinstall any existing version of the MASS libraries before installing XL C/C++ Enterprise Edition V7.0 for AIX. Refer to “Deinstalling previous versions of the MASS components” on page 14 for more information on how to deinstall MASS libraries.
- If you want XL C/C++ Enterprise Edition V7.0 for AIX to coexist with a previous version of an IBM C compiler, you must install the new compiler in a different location. See “Non-default installation” on page 8 for instructions. Alternatively, you can deinstall the previous version and install it to a location different from where you installed XL C/C++ Enterprise Edition V7.0 for AIX.
- After installing XL C/C++ Enterprise Edition V7.0 for AIX, make sure to read the product README file in `/usr/vacpp/README` for English, `/usr/vacpp/README.ja_JP` for Japanese and `/usr/vacpp/README.zh_CN` for Chinese. It contains information that the system administrator may need to act on or distribute to others who use the product.
- You must have root user access or administrative privilege to install XL C/C++ Enterprise Edition V7.0 for AIX.

### Checking for required filesets:

The following filesets *must* be installed on your system in order to install XL C/C++ Enterprise Edition V7.0 for AIX.

Fileset name	Fileset description
bos.adt.include	Base application development include files
bos.adt.lib	Base application development libraries
bos.adt.libm	Base application development math libraries

You can view information about the installed filesets by using the **lslpp** command.

Use the following command to determine if these items have been installed:

```
lslpp -L bos.adt.include bos.adt.lib bos.adt.libm
```

### Checking for other filesets:

The following optional filesets are prerequisites for some components.

Fileset name	Fileset description
bos.rte.libpthreads	Pthreads library. Required for threaded applications.

Use the following command to determine if the fileset has been installed:

```
lsipp -h bos.rte.libpthread
```

## Installation and license agreements preview

You can preview the installation process without actually installing the product. The advantage of the installation preview is that you can make sure that all prerequisites, such as disk space, have been met.

### Using SMIT

Follow these steps to preview the installation process from the CD-ROM for all filesets from the **SMIT** (System Management Interface Tool) interface:

1. Type the following on the AIX command line:

```
smit install_latest
```

This command invokes the System Management Interface Tool (SMIT), which presents a menu-driven environment for the installation process that asks you to specify INPUT device/directory of the software.

2. Click the **List** button to select from a list of suggested devices and directories, or type in the name of the CD-ROM device or the path to where the packages are located, if it is not listed. If you want to install over a network you must have a network server installed, then specify the directory on the client that corresponds to the installation source on the network server.
3. Click **OK**.

At this stage you are prompted with a list of questions with a default answer as shown in the following table. You can change the default values specified in the table according to your preference or accept the default values and proceed.

Prompt	Default value
INPUT device/directory for software	/dev/cd0
SOFTWARE to install	_all_latest
PREVIEW only? (install operation will NOT occur)	no
COMMIT software updates?	yes
SAVE replaces files?	no
AUTOMATICALLY install requisite software?	yes
EXTEND file systems if space needed?	yes
OVERWRITE same or newer versions?	no
VERIFY install and check file sizes?	no
Include corresponding LANGUAGE filesets?	yes
DETAILED output?	no
Process multiple volumes?	yes
ACCEPT new license agreements?	no
Preview New LICENSE agreements?	no

4. Next to PREVIEW only, choose **yes**.
5. Next to Preview new LICENSE agreements, choose **yes**.
6. Click **OK** and then **OK** again.

You can also verify the amount of space needed for the installation before you install the product. Choose the above-mentioned settings and proceed as follows:

- Next to Verify install and check file sizes, choose **yes**.

The system makes additional resource checks during installation. If you want, you can also choose **yes** next to the following option:

EXTEND file systems if space needed.

Alternatively, you can preview the license agreement with the parameter **show\_license\_agree**. Follow these steps:

1. Type **SMIT show\_license\_agree** on the command line. You have two options as follows:
  - Show installed license agreements
  - Show license agreements on installation media
2. Choose the first option if you want to preview the license agreement of software that is already installed on your machine and the second option if you want to preview the license agreement of software before you actually install it. If you choose Show installed license agreements, you are prompted as follows:

- SOFTWARE name (with a default value of all)
- SHOW license agreement text (with a default value of yes)

Click on the **List** button to choose the filesets for which you want to view the license agreement, or just type the name of the fileset and click **OK**.

If you choose Show license agreements on installation media, you are prompted to enter INPUT device/directory for software. Click the **List** button to select from a list of suggested devices and directories, or type in the name of the CD-ROM device or the path to where the packages are located, if it is not listed, and click **OK**.

## Using installp

Follow these steps to preview the command line installation process from the CD-ROM using **installp** and writing the output to a log file:

```
/usr/sbin/installp -paXgd location_of_install_images
                                -e location_of_log_file FilesetNames
```

where:

- *location\_of\_install\_images* is the device or directory of the compiler filesets (for example, /cdrom/usr/sys/inst.images)
- *location\_of\_log\_file* can be a log file (for example, /tmp/install.log).
- *FilesetName*s are names of the filesets in *location\_of\_install\_images* that you want to install (the keyword "all" can be used to indicate that all filesets should be previewed).

You can also preview the license agreements using **installp** command as follows:

```
/usr/sbin/installp -aEd input-device all
```

where the *input-device* is the device or directory of the compiler filesets.

## Default installation

As root, you can use **SMIT** (System Management Interface Tool) or the **installp** command to install the compiler.

### Using SMIT

Follow these steps to install the compiler by using the **SMIT** interface:

1. Type the following command on the AIX command line, and then press Enter:  
smit install\_latest

This command invokes the **SMIT**, which presents a menu-driven environment for the installation process that asks you to specify INPUT device/directory of the software.

2. Click the **List** button to select from a list of suggested devices and directories, or type in the name of the CD-ROM device or the path to where the packages are located, if it is not listed. If you want to install over a network you must have a network server installed, then specify the directory on the client that corresponds to the installation source on the network server.
3. Click **OK**.

At this stage you are prompted with a list of questions with a default answer as you see in the following table.

Prompt	Default value
INPUT device/directory for software	/dev/cd0
SOFTWARE to install	_all_latest
PREVIEW only? (install operation will NOT occur)	no
COMMIT software updates?	yes
SAVE replaces files?	no
AUTOMATICALLY install requisite software?	yes
EXTEND file systems if space needed?	yes
OVERWRITE same or newer versions?	no
VERIFY install and check file sizes?	no
Include corresponding LANGUAGE filesets?	yes
DETAILED output?	no
Process multiple volumes?	yes
ACCEPT new license agreements?	no
Preview new LICENSE agreements?	no

4. Click the **List** button next to SOFTWARE to Install to view the installable images on the device, then select the images to install. Install the run-time libraries first, then install the other images in any order. You can choose **\_all\_latest** if you want to install everything.
5. If you have read the license agreement and agree to its terms, next to Accept new license agreements, choose **yes**.
6. Click **OK** and then **OK** again.
7. To continue, click **OK**.

**Notes:**

- a. The run-time libraries and compiler images are always required.
- b. You do not need all of the compile-time and run-time message catalogs, only those for the national languages that you need for compile-time and run-time messages.
- c. Messages are displayed as each part is successfully installed.

## Using installp

Follow these steps to install the compiler by using the **installp** command line interface and writing the output to a log file.

Type the following:

```
/usr/sbin/installp -aXYQgd location_of_install_images  
-e location_of_log_file FilesetNames
```

where:

- *location\_of\_install\_images* is the device or directory of the compiler filesets (for example, /cdrom/usr/sys/inst.images).
- *location\_of\_log\_file* can be a log file (for example, /tmp/install.log ).
- *FilesetNames* are names of the filesets in *location\_of\_install\_images* that you want to install (the keyword "all" can be used to indicate that all filesets should be attempted during install).

## Non-default installation

You can install XL C/C++ to a non-default directory using the **vacppndi** Perl script provided with the product. This allows you to run multiple versions of XL C/C++ on a single system.

The non-default install Perl script, **vacppndi**, is provided in the **vacpp.ndi** fileset. Install this fileset first using the **SMIT** or **installp** command, then use the **vacppndi** script to install XL C/C++ Enterprise Edition V7.0 for AIX to an alternate target directory. This can be useful if, for example, you need to run and test two versions of the XL C/C++ compilers. For detailed information about the **vacppndi** script, enter the following command:

```
/usr/vacpp/bin/vacppndi -h
```

### Non-default installation limitations

- The recommended method for installing XL C/C++ Enterprise Edition V7.0 for AIX is the default installation. You should only use the **vacppndi** script to install XL C/C++ if you are an expert AIX user familiar with the compiler and the standard installation process.
- To avoid unexpected behavior during installation, do not modify this script.
- The **vacppndi** script does not check if the prerequisite packages are installed.
- You cannot use this script to install the product filesets individually.
- IBM Distributed Debugger filesets will not be installed. You must install these filesets separately using **installp** or **SMIT**.
- You will not be able to use AIX tools to deinstall, or to determine which version or release levels of the compiler components are installed.
- Service refreshes of the compiler assume a default installation path. For a non-default compiler installation, the **vacppndi** script must be used to apply a service package.

### Non-default installation

You may choose to install just the compiler filesets, or the compiler, the sample files, and the PDF documentation files. You cannot install IBM Distributed Debugger or the HTML-format online help using the **vacppndi** script.

#### XL C/C++ non-default installation prerequisites

- Ensure that your system has the correct prerequisites described in "System prerequisites" on page 3.
- To run **vacppndi**, you must have the Perl Version 5.5.3 run-time environment, **perl.rte**, installed on your computer. This fileset is shipped with the AIX base operating system.

To install XL C/C++ to a non-default directory:

1. Install the **vacpp.ndi** fileset using the following command:

```
/usr/sbin/installp -aXYgd location_of_install_images  
-e location_of_log_file vacpp.ndi
```

where:

- *location\_of\_install\_images* is the device or directory of the compiler filesets (for example, /cdrom/usr/sys/inst.images).
- *location\_of\_log\_file* can be a log file (for example, /tmp/install.log ).

2. Navigate to the **/usr/vacpp/bin/** directory.
3. On the command line, type the following command:

```
perl vacppndi -d source_path [-e logfile_name] \  
[-m] [-b target_directory]
```

where:

**-d** *source\_path*

Specifies the directory where the filesets are located. This path may also be a mounted CD-ROM drive.

**-e** *logfile\_name*

Specifies the name and location of the installation log file. By default, the installation log file **vacppndi.log** will be stored in your working directory.

**-m**

Specifies the option to install just the compiler files. If you do not specify this option, then the compiler files, sample files, and PDF documentation files will be installed.

**-b** *target\_directory*

Specifies the location where the filesets should be copied and expanded. By default, the files will be copied to the **vacppndi** directory in your working directory. If the directory exists already, you will receive an error message and the installation will stop.

## PTF updates

To install a PTF (program temporary fix) for the XL C/C++ compiler installed to a non-default directory, follow these steps:

1. Create a text file listing the PTF files you want to install. This text file should contain the name of a single PTF file on each line.
2. Navigate to the **/usr/vacpp/bin** directory.
3. On the command line, type the following command:

```
perl vacppndi -d source_path [-e logfile_name] \  
-u ptf_names [-b target_directory]
```

where:

**-d** *source\_path*

Specifies the directory where the PTF files are located.

**-e** *logfile\_name*

Specifies the name and location of the installation log file. By default, the installation log file **vacppndi.log** will be stored in your working directory.

**-u** *ptf\_names*

Specifies the text file containing the names of PTF files you want to install.



**-b** *target\_directory*

Specifies the location where the fixes should be installed. By default, the fixes will be installed to the **vacppndi** directory within your current working directory.

## Bundle installation

Bundle filesets are introduced in the XL C/C++ Enterprise Edition V7.0 for AIX for *bundle installation*. In bundle installation only filesets that are appropriate to your operating system level will attempt to be installed and as a result, operating-system-specific fileset failures will be eliminated. The file within a bundle fileset is called *bundle definition file*.

Bundle filesets are installed in the following locations:

Bundle name	Bundle definition file	Default installation location of the bundle definition file
vac.Bnd	vac.7.0-aix50.bnd	/usr/sys/inst.data/sys_bundles

## Bundle installation using SMIT

Follow these steps to install the bundle filesets and XL C/C++ Enterprise Edition V7.0 for AIX using the **SMIT** interface:

1. Type the following command:

```
smit install_latest
```

2. When prompted to enter Input device/directory for software, type in the name of the CD-ROM device or the path to where the packages are located, if it is not listed.
3. Next to SOFTWARE to Install, enter vacpp.Bnd, or click **List** to select the bundle fileset from the list.
4. Click **OK**. When the **vacpp.Bnd** fileset is installed, the bundle definition file is installed in the **/usr/sys/inst.data/sys\_bundles** directory.
5. Type the following command:

```
smit install_bundle
```

6. When prompted to enter Input device/directory for software, type in the name of the CD-ROM device or the path to where the packages are located, if it is not listed.
7. Click **OK**.
8. When prompted to Select a fileset Bundle, click **List** to select the fileset definition file from the list, in this case, **vacpp.7.0-aix50**.
9. Click **OK**.

At this stage you are prompted with a list of questions with a default answer as you see in the following table.

Prompt	Default value
INPUT device/directory for software	/dev/cd0
BUNDLE	vacpp.7.0-aix50
SOFTWARE to install	all
PREVIEW only? (install operation will NOT occur)	no
COMMIT software updates?	yes
SAVE replaces files?	no



AUTOMATICALLY install requisite software?	yes
EXTEND file systems if space needed?	yes
OVERWRITE same or newer versions?	no
VERIFY install and check file sizes?	no
Include corresponding LANGUAGE filesets?	yes
DETAILED output?	no
Process multiple volumes?	yes
ACCEPT new license agreements?	no
Preview new LICENSE agreements?	no

10. Click the **List** button next to SOFTWARE to Install to view the installable images on the device, then select the images to install. Install the run-time libraries first, then install the other images in any order. You can choose **all** if you want to install everything.
11. If you have read the license agreement and agree to its terms, next to Accept new license agreements, choose **yes**.
12. Click **OK** and then **OK** again.

## Bundle installation using installp

Follow these steps to install the bundle filesets and XL C/C++ Enterprise Edition V7.0 for AIX using **installp**.

1. Type the following command:

```
/usr/sbin/installp -aXd location_of_bnd_fileset bundle_fileset_name
```

where:

- *location\_of\_bnd\_fileset* is the device or directory of the bundle fileset (for example, /cdrom/usr/sys/inst.images).
- *bundle\_fileset\_name* is the name of the bundle fileset, in this case, **vacpp.Bnd**.

When the **vacpp.Bnd** fileset is installed, the bundle definition file is installed in the **/usr/sys/inst.data/sys\_bundles** directory.

2. Type the following command:

```
/usr/sbin/installp -aXYgQd location_of_all_filesets -f  
full_path_of_bundle_definition_file_name
```

where:

- *location\_of\_all\_filesets* is the device or directory of the compiler filesets (for example, /cdrom/usr/sys/inst.images).
- *full\_path\_of\_bundle\_definition\_file\_name* is the path and name of the bundle definition file, in this case, **/usr/sys/inst.data/sys\_bundles/vacpp.7.0-aix50.bnd**.

## Product migration installation

It is recommended that you deinstall any previous versions of the compiler prior to installation. However, migration installation from previous compiler versions is supported. The installation procedure is the same because during installation **installp** determines if previous versions of the fileset exist and if so, will take the appropriate steps to migrate the fileset.

## Operating system migration

If you are using a previous version of the AIX operating system and you want to migrate to the new version, you need to manually update the configuration file

symbolic link to point to the matching OS-specific configuration file after OS migration. You must have root user access to link the file. You can update the configuration file by performing the following command:

```
ln -fs /etc/vac.cfg.OS_Level /etc/vac.cfg
```

Where *OS\_level* can be any of the following:

- 51
- 52
- 53

If you have made any customization to the configuration file for the previous version and you want the changes to take effect in the new version, you should make the same customization for the new version.

---

## Enabling the XL C/C++ Enterprise Edition V7.0 for AIX manual pages

Manual pages are provided for the compiler invocation commands and other compiler utilities.

Before you can read the manual pages, you must add the manual directory to the MANPATH environment variable as follows:

Set the MANPATH environment variable to the following value:

```
/usr/vacpp/man/LANG:$MANPATH
```

Where *LANG* can be one of the following supported languages:

- en\_US
- EN\_US
- Ja\_JP
- ja\_JP
- JA\_JP
- Zh\_CN
- zh\_CN
- ZH\_CN

For example, you can use the following command to set the language to English:

```
export MANPATH=/usr/vacpp/man/en_US:$MANPATH
```

To invoke a manual page, enter **man** followed by the command; for example:

```
man xlc
```

To leave the manual page, press: **q**.

---

## Locations of XLOPT and MASS components

The default installation locations of the XLOPT components have changed in XL C/C++ Enterprise Edition V7.0 for AIX, and the MASS components are installed to a directory different from the one recommended on the MASS download Web page. You should delete these old directories (for procedures for de-installing previous versions of MASS libraries, see “Deinstalling previous versions of the MASS components” on page 14).

The following table summarizes old and new directory locations for the installed XLOPT files and MASS files (assuming the latter were installed to the recommended default directory).

File	Old directory	New directory
libxlopt.a	/usr/lpp/xlopt/aix50	/usr/vac/lib/aix50
libxlopt.a (link)	/usr/lib	/usr/vac/lib
cleanpdf	/usr/xlopt/bin	/usr/vac/lib
resetpdf	/usr/xlopt/bin	/usr/vac/lib
libmass.a	/usr/lpp/mass	/usr/vac/lib/aix50
libmass.a (link)	/usr/lib	/usr/vac/lib
libmassv.a	/usr/lpp/mass	/usr/vac/lib/aix50
libmassv.a (link)	/usr/lib	/usr/vac/lib
libmassvp3.a	/usr/lpp/mass	/usr/vac/lib/aix50
libmassvp3.a (link)	/usr/lib	/usr/vac/lib
libmassvp4.a	/usr/lpp/mass	/usr/vac/lib/aix50
libmassvp4.a (link)	/usr/lib	/usr/vac/lib

**Note:** If you have both XL C/C++ Enterprise Edition V7.0 for AIX and XL Fortran Enterprise Edition V9.1 for AIX installed note that XL Fortran has its own versions of the XLOPT and MASS files.

## Deinstalling XL C/C++ Enterprise Edition V7.0 for AIX from a default location

You must have root user access to deinstall this product.

As with installation, you have the option to use either **SMIT** or **installp** to remove the compiler filesets. If you attempt to remove a fileset that is required by another installed fileset, the selected fileset will not be removed unless its dependents are also being removed.

### Notes:

1. Some filesets may not deinstall if they are required by other installed products. See "XL C/C++ packaging and filesets" on page 1 for details about filesets included with XL C/C++ Enterprise Edition V7.0 for AIX.
2. As deinstalling dependent packages automatically may introduce problems, it is recommended that you preview deinstallation to ensure that all dependent filesets are no longer required.

## Using SMIT

The following steps illustrate how to deinstall the **vac.C** compiler fileset along with all of its dependents by using the **SMIT** interface:

- Type **smit remove**
- In **SOFTWARE name** click **List** to choose **vac.C** from the list.
- When prompted to REMOVE dependent software, choose **yes** to deinstall **vac.C** and its dependent filesets.

## Using installp

The following step illustrates how to deinstall the **vac.C** compiler fileset along with all of its dependents by using **installp** command line interface:

```
/usr/sbin/installp -ugw vac.C
```

---

## Deinstalling XL C/C++ Enterprise Edition V7.0 for AIX from a non-default location

To deinstall the XL C/C++ compiler installed to a non-default location, delete the directory specified as *target\_directory* during the installation. To determine which version of each fileset is installed, review the **.vmf\_history** text file, which is created in the *target\_directory* during installation of the compiler and any fixes.

To deinstall the relocated compiler install, enter the command:

```
rm -rf /target_directory
```

---

## Deinstalling previous versions of the MASS components

If you previously downloaded and installed the MASS libraries on the system on which you are installing the XL C/C++ Enterprise Edition V7.0 for AIX, it is recommended that you deinstall the libraries by removing the directory in which they were installed.

To remove the MASS directory, type:

```
rm -rf /target_directory
```

where *target\_directory* is **usr/lpp/maass** or an alternate directory that was used when installing the MASS libraries. If you created symbolic links in the **/usr/lib** directory to the libraries in the MASS directory, you should delete these as well. The compiler installation automatically handles the creation of the necessary symbolic links.

---

## Deinstalling bundle filesets

Since the bundle filesets have no requisites, you can deinstall them using either **installp** or **SMIT** method.

**Note:** Deinstalling the bundle fileset will only remove the bundle definition file it installed, but will not deinstall any other filesets in the compiler.

The following command deinstalls **vacpp.Bnd**, and removes **vacpp.7.0-aix50.bnd** file from the system:

```
/usr/sbin/installp -u vacpp.Bnd
```

---

## Viewing and printing the documentation

### Viewing the HTML documentation

The XL C/C++ Enterprise Edition V7.0 for AIX uses a fully searchable HTML-based information center. To access the help system, follow these steps:

1. Launch the Eclipse server by executing the following command:

```
/usr/xlhelp/bin/xlhelp
```

(This may take a few minutes.)

2. Do either of the following:

- To view the information center on the local machine, execute the following command to launch Netscape with the required URL already provided:

```
/usr/vacpp/bin/xlchelp
```

- To view the information from a remote machine, start your browser, and point it to the following URL:

```
http://machine_name:5312/help/index.jsp
```

where *machine\_name* is the name of the computer running the Eclipse server.

For additional information on using the XL C/C++ Enterprise Edition V7.0 for AIX HTML information center, please see the product **README** file on the CD-ROM.

Note that the IBM Distributed Debugger documentation consists of HTML online help and additional HTML documentation accessible from the graphical user interface.

## Viewing and printing the PDF documentation

Before you install XL C/C++ Enterprise Edition V7.0 for AIX, you can find the PDF documentation on the following locations on the CD:

*Table 8. Documentation directories on the product CD*

Directory	Description
/doc/LANG/pdf	IBM XL C documentation (PDF)

After you install XL C/C++ (default installation), you can find the PDF documentation in the following directories:

*Table 9. Documentation directories after installation*

Directory	Description
/usr/vac/doc/LANG/pdf	IBM XL C documentation (PDF)

Adobe Acrobat Reader Version 3.0, or higher, is required to view or print the PDF documentation.

---

## Testing the installation

To test the product install and the critical search paths, try building the following simple C programs.

1. Create the following C program and name the source file `hello.c`:

```
#include <stdio.h>
int main(void)
{
    printf("Hello World!\n");
    return 0;
}
```

2. Use the `xlc` command to compile the test program. For example:

```
/usr/vac/bin/xlc hello.c -o hello
```

3. Run the program:

```
./hello
```

The expected result is that "Hello World!" is displayed on the screen.

4. Check the exit code of the program:  
**echo \$?**  
The result should be zero.

---

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