

PGDBG® Debugger Installation Guide

Version 12.9



The Portland Group®

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PGDBG® Installation Guide

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Chapter 1. Release 2012

Introduction

Welcome to Release 2012 of the PGDBG debugger for 32-bit and 64-bit x86-compatible processor-based workstations, servers, and clusters running versions of the Linux, Apple Mac OS X, and Microsoft Windows operating systems. This installation information applies to the PGDBG installation package available from The Portland Group.

Product Overview

PGDBG is licensed software available from The Portland Group. PGDBG supports debugging programs running on local and remote systems. The PGI license keys that enable PGDBG to debug must be located on the same system where the program you want to debug is running.

Local debugging

If you want to debug a program running on the system where you have launched PGDBG, you are doing local debugging and you need license keys on that local system.

Remote debugging

If you want to debug a program running on a system other than the one on which PGDBG is launched, then you are doing remote debugging and you need license keys on the remote system. The remote system also needs an installed copy of PGI Workstation, PGI Server, or PGI CDK.

PGI Remote and PGI Local Debugging Comparison

The PGDBG install package includes the PGDBG debugger. It supports debugging applications locally as well as on a system other than the one on which PGDBG is installed.

[Figure 1.1](#) illustrates local debugging and its license key requirements.

Figure 1.1. Local Debugging Licensing

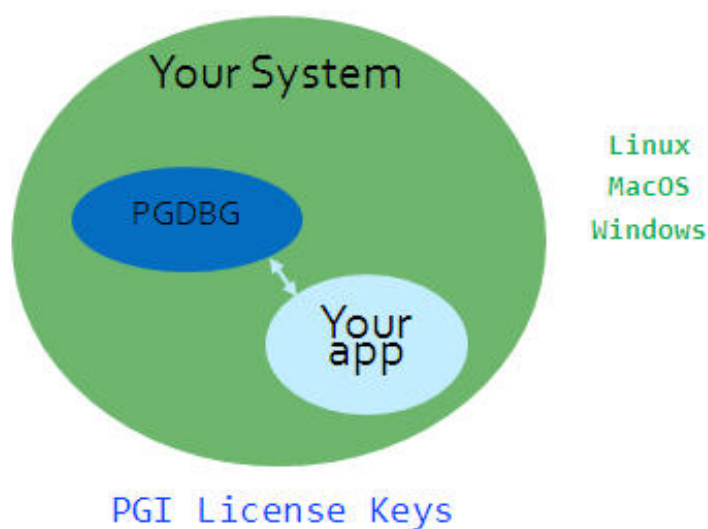
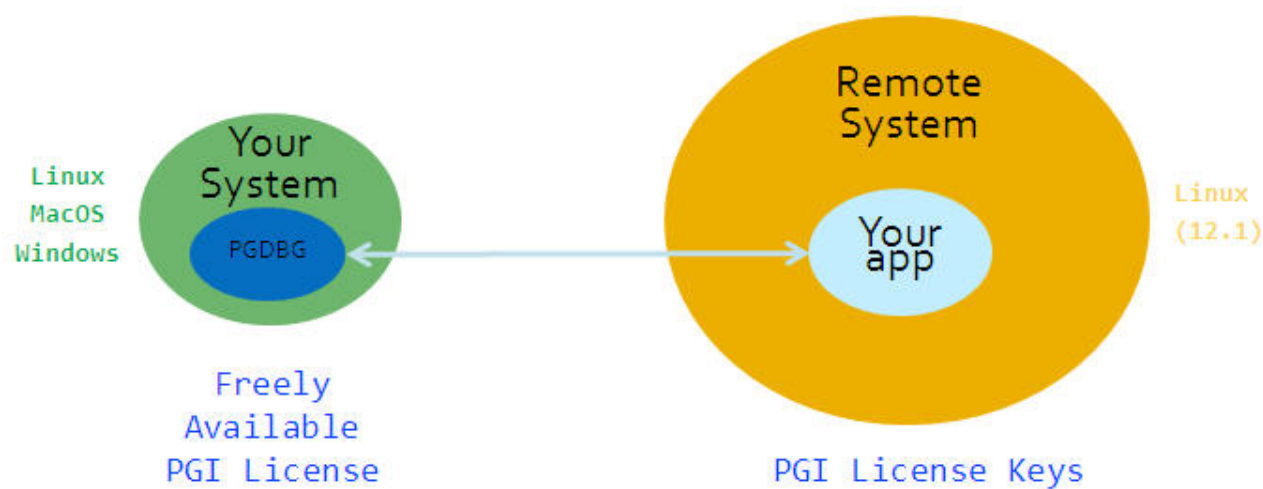


Figure 1.2 illustrates remote debugging and its license key requirements..

Figure 1.2. Remote Debugging Licensing



Release Components

Release 2012 of PGDBG includes PGI's multi-thread graphical debugger.

Co-installation Requirements

If the program to be debugged is running on the same system as PGDBG, then PGDBG and valid license keys are all you need to be able to debug locally.

If the program to be debugged is running on a different system than PGDBG, then PGI Workstation, PGI Server, or PGI CDK must be installed on that remote system and valid license keys must be in place there. The remote system must be running a Linux operating system. The license required to launch PGDBG on your local system (before beginning a remote debug session) is freely available from PGI.

Supported Operating Systems

[Table 1.1](#) lists the operating systems, and their equivalents, on which PGDBG is supported. To determine if PGDBG will install and run under a Linux equivalent version, such as Mandrake, Debian, CentOS, and so on, check the table for a supported system with the same `glibc` and `gcc` versions. Version differences in other operating system components can cause difficulties, but often these can be overcome with minor adjustments to the PGI software installation or operating system environment.

- Linux operating systems with support for x64 compatible processors are designated 64-bit in the table. These are the only distributions on which the 64-bit versions of PGDBG fully installs.
- If you attempt to install the 64-bit/32-bit Linux version on a system running a 32-bit Linux distribution, only the 32-bit PGDBG is installed.
- If you attempt to install the 64-bit Windows version on a system running 32-bit Windows, the installation fails.

Most modern operating systems include support for Intel Hyper-threading (HT).

Most modern Linux distributions support the *Native Posix Threads Library (NPTL)*. Distributions that include NPTL are designated in the table. Parallel executables generated using the *OpenMP* and auto-parallelization features of the PGI compilers will automatically make use of NPTL on distributions where it is available. In addition, PGDBG is capable of debugging executables built using either NPTL or earlier `pthread` implementations.

Many modern multi-socket AMD Opteron processor-based servers use a *NUMA* (Non-Uniform Memory Access) architecture in which the memory latency from a given processor to a given portion of memory can vary. Newer Linux distributions, including SuSE 9/10 and SLES 9/10, include NUMA libraries that can be leveraged by a compiler and associated runtime libraries to optimize placement of data in memory.

In the table headings:

HT = hyper-threading

NPTL = Native POSIX Threads Library

NUMA = Non-Uniform Memory Access

Table 1.1. Operating Systems and Features Supported in PGI 2012

Type	Distribution	64-bit	HT	NPTL	NUMA	glibc	GCC
Linux	RHEL 6.2	Yes	Yes	Yes	Yes	2.12	4.4.6
	RHEL 6.1	Yes	Yes	Yes	Yes	2.12	4.4.5
	RHEL 6.0	Yes	Yes	Yes	Yes	2.12	4.4.4
	RHEL 5.6	Yes	Yes	Yes	Yes	2.12	4.4.4
	RHEL 5.5	Yes	Yes	Yes	No	2.5	4.1.2
	RHEL 5.4	Yes	Yes	Yes	No	2.5	4.1.2
	RHEL 5.3	Yes	Yes	Yes	No	2.5	4.1.2
	RHEL 5.0	Yes	Yes	Yes	No	2.5	4.1.2
	RHEL 4.0	Yes	Yes	Yes	No	2.3.4	3.4.3

Type	Distribution	64-bit	HT	NPTL	NUMA	glibc	GCC
Linux	Fedora 14	Yes	Yes	Yes	Yes	2.12	4.4.5
	Fedora 13	Yes	Yes	Yes	Yes	2.12	4.4.4
	Fedora 12	Yes	Yes	Yes	Yes	2.11	4.4.2
	Fedora 11	Yes	Yes	Yes	Yes	2.9	4.3.3
	Fedora 10	Yes	Yes	Yes	Yes	2.9	4.3.2
	Fedora 9	Yes	Yes	Yes	Yes	2.8	4.3.0
	Fedora 8	Yes	Yes	Yes	Yes	2.7	4.1.2
	Fedora 7	Yes	Yes	Yes	Yes	2.6	4.1.2
	Fedora 6	Yes	Yes	Yes	Yes	2.5	4.1.1
	Fedora 5	Yes	Yes	Yes	Yes	2.4	4.1.0
	Fedora 4	Yes	Yes	Yes	No	2.3.5	4.0.0
	SuSE 11.3	Yes	Yes	Yes	Yes	2.11.2	4.5
	SuSE 11.2	Yes	Yes	Yes	Yes	2.10.1	4.4.1
	SuSE 11.1	Yes	Yes	Yes	Yes	2.9	4.3.3
	SuSE 11.0	Yes	Yes	Yes	Yes	2.8	4.3.1
	SuSE 10.3	Yes	Yes	Yes	Yes	2.6.1	4.2.1
	SuSE 10.2	Yes	Yes	Yes	Yes	2.5	4.1.0
	SuSE 10.1	Yes	Yes	Yes	Yes	2.4	4.1.0
	SuSE 10.0	Yes	Yes	Yes	Yes	2.3.5	4.0.2
	SuSE 9.3	Yes	Yes	Yes	Yes	2.3.4	3.3.5
	SLES 11	Yes	Yes	Yes	Yes	2.9	4.3.3
	SLES 10	Yes	Yes	Yes	Yes	2.4	4.1.0
	SLES 9	Yes	Yes	No	Yes	2.3.3	3.3.3
	RedHat 9.0	No	No	Yes	No	2.3.2	3.2.2
	Ubuntu 11.10	Yes	Yes	Yes	Yes	2.13.20	4.6.1
	Ubuntu 11.04	Yes	Yes	Yes	Yes	2.13.0	4.5.2
	Ubuntu 10.10	Yes	Yes	Yes	Yes	2.12.1	4.4.5
	Ubuntu 10.04	Yes	Yes	Yes	Yes	2.11.1	4.4.3
	Ubuntu 9.10	Yes	Yes	Yes	Yes	2.10.1	4.4.1
	Ubuntu 9.04	Yes	Yes	Yes	Yes	2.9	4.3.3
	Ubuntu 8.10	Yes	Yes	Yes	Yes	2.8	4.3.2
	Ubuntu 8.04	Yes	Yes	Yes	Yes	2.7	4.2.1

Type	Distribution	64-bit	HT	NPTL	NUMA	glibc	GCC
Microsoft Windows	XP	No	Yes	NA	Yes	NA	NA
	XP x64	Yes	Yes	NA	Yes	NA	NA
	2003	No	No	NA	Yes	NA	NA
	2003 x64	Yes	Yes	NA	Yes	NA	NA
	2008	No	Yes	NA	Yes	NA	NA
	2008 x64	Yes	Yes	NA	Yes	NA	NA
	Vista	No	Yes	NA	Yes	NA	NA
	Vista x64	Yes	Yes	NA	Yes	NA	NA
	Windows 7	Yes	Yes	NA	Yes	NA	NA
	HPC Server 2008	Yes	Yes	NA	Yes	NA	NA
Apple	Lion	Yes	No	NA	NA	NA	4.2.1
	Snow Leopard	Yes	No	NA	NA	NA	4.0.1

Note

www.pgroup.com/support/install.htm lists any new operating system distributions that may be explicitly supported by the PGI compilers and tools. If your operating system is newer than any of those listed in [Table 1.1](#), the installation may still be successful.

Java Runtime Environment (JRE)

The PGI debugger uses Java SE 6. On 64-bit systems PGDBG uses a 64-bit JRE; on 32-bit systems it use a 32-bit JRE.

Licensing

PGDBG is licensed software. You must agree to an End-User License Agreement when you install the software.

Product Support

All new purchased PGI licenses include 60 days of PGI Subscription Service.

The PGI Subscription Service provides the following benefits:

- Ongoing technical support.

Support requests may be sent in a number of ways:

- By electronic mail to trs@pgroup.com
- Faxed to +1-503-682-2637
- By using the online support request form available at www.pgroup.com/support/support_request.php

- Phone support is not currently available.
- Notification by email when maintenance releases occur and are available for electronic download and installation.
- Release upgrades for licensed Product(s) at no additional cost, except for any administrative fee that may apply.
- Full license fee credits on Product upgrades, except for any administrative fee that may apply. "Product upgrades" refer to exchanging one Product license for a more expensive Product license, and is not the same as a version or Release upgrade previously referenced.
- Full license fee credits on user-count upgrades, except for any administrative fee that may apply.

Important

To continue receiving these benefits after 60 days, you can purchase an extension to your PGI Subscription Service. Extensions are available in yearly increments.

Contact sales@pgroup.com if you would like information regarding the subscription service for the PGI products you have purchased.

Chapter 2. Installation Overview

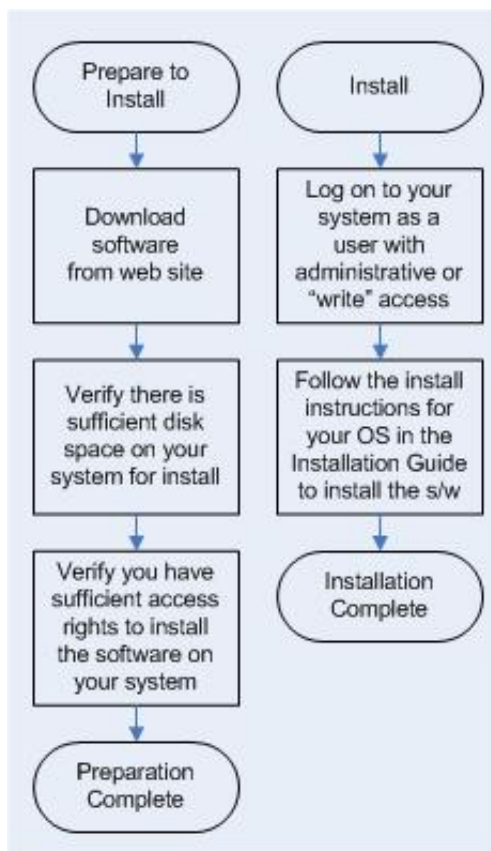
This chapter provides an overview of the steps required to successfully install PGDBG. The remaining chapters provide the details of each of the steps. Licensing was covered in [Chapter 1, “Release 2012 Introduction”](#). [Chapter 3, “PGI Installations on Linux”](#) describes how to install PGDBG in a generic manner on Linux, [Chapter 4, “Installations on Apple Mac OS X”](#) describes how to install on an Apple Mac OS X system, and [Chapter 5, “Installations on Microsoft Windows”](#) describes how to install on a Windows system.

Before You Begin

Before you begin the installation, it is advantageous to understand the flow of the installation process. There are two stages of the process:

- Prepare to install – verifying that you have all the required information and software.
- Install the software – installing the software appropriate for your operating system

The following illustration provides a high-level overview of the PGI installation process.



For more complete information on these steps and the specific actions to take for your operating system, refer to the corresponding chapters in this guide.

PGI Network Installations

Linux

On Linux, PGDBG may be installed locally on each machine on a network or it may be installed once on a shared file system available to each machine. If you select the second method, then after the first installation you can run a simple script on each machine in the group to add each new platform to the family of machines using the common installation. For more information on network installations, refer to [Chapter 3, “PGI Installations on Linux”](#).

Mac OS X and Windows

On Mac OS X and Windows, PGDBG must be installed locally on each machine. A network installation using a shared file system is not supported.

Chapter 3. PGI Installations on Linux

This chapter describes how to install PGDBG in a generic manner on a Linux system. It covers local and network installs.

- For installations on 32-bit x86 systems, the PGI installation script installs only the linux86 versions of PGDBG.
- For installations on 64-bit x64 systems running a linux86-64 execution and development environment, the PGI installation script installs the linux86-64 version of PGDBG.
- If the 32-bit gcc development package is already installed on the system, the 32-bit linux86 PGDBG is also installed on a 64-bit x64 system.

The 32-bit and 64-bit PGDBG have the same command names, and the environment you target by default (linux86-64 or linux86) depends on the version of PGDBG that comes first in your path settings.

Prepare to Install PGDBG on Linux

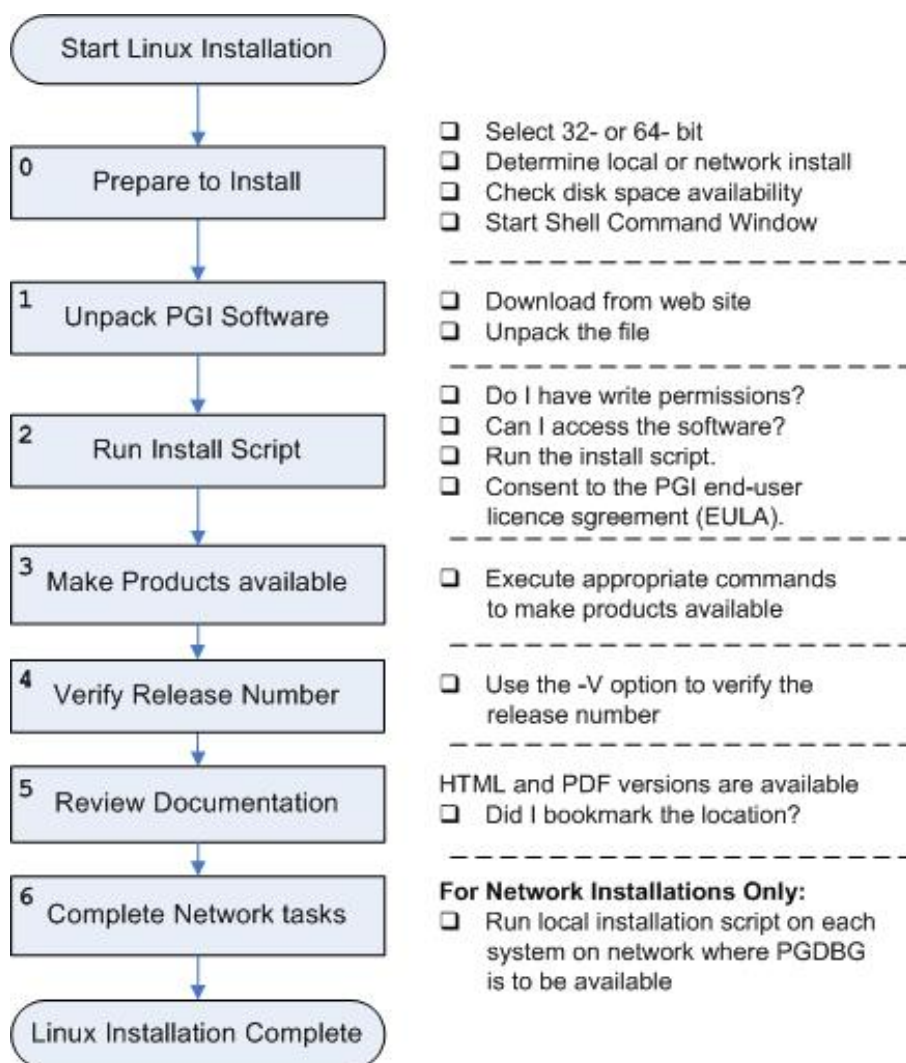
In preparation for installing PGDBG on Linux, first study the overview of the Linux installation process illustrated in [Figure 3.1](#).

Note

For Linux installations, each user needs to set their environment variables properly to access the software, as described in section 4.4, End-user Environment Settings on Linux.

In a typical local installation, the default installation base directory is `/opt/pgi`.

Figure 3.1. Linux Installation Overview



Network Installations:

If you choose to perform a network installation, you should specify:

- A shared file system for the installation base directory.
- A second directory name that is local to each of the systems where PGDBG will be used. This directory selection approach allows a network installation to support a network of machines running different versions of Linux.

To Prepare for the Installation:

- Bring up a shell command window on your system.

The installation instructions assume you are using csh, sh, ksh, bash, or some compatible shell. If you are using a shell that is not compatible with one of these shells, appropriate modifications are necessary when setting environment variables.

- Verify you have enough free disk space for the PGI installation.
 - The uncompressed installation package requires 60 MB of free disk space.
 - The linux86 platform requires up to 77 MB of free disk space.
 - The linux86-64 platform requires up to 77 MB of free disk space.
- To debug 32-bit applications on 64-bit Linux systems, the 32-bit `ncurses` libraries must be installed. The name of this package varies across the Linux distributions, but it contains a file with a name like `libncurses.so.5`.

PGI Installations on Linux - gcc Compiler Requirements

On Linux systems, PGDBG needs the gcc tool chain (`ld,as,ar`) and gcc libraries and header files to be compatible with your version of Linux. Therefore, to successfully install on a Linux system, the system must already have gcc compilers installed.

- To successfully install the 64-bit PGDBG, gcc 64-bit compilers must be present and in the user's path.
- To successfully install the 32-bit PGDBG, gcc 32-bit compilers must be present and in the user's path.

Note

32-bit Linux systems can only have 32-bit gcc compilers.

- To successfully install the 32-bit PGDBG on a 64-bit Linux system, gcc 32-bit compilers must be present and in the user's path.

gcc Compiler Availability

To determine if 32-bit or 64-bit gcc compilers are installed on the system, do the following:

1. Create a `hello.c` program.

```
#include <stdio.h>
int main()
{
    printf(" hello\n");
}
```

2. Execute the appropriate commands to determine if you have gcc support in your path:

For 64-bit gcc support:

```
% gcc -m64 -o ./hello_64 ./hello.c    ! create a 64-bit executable
% file ./hello_64    ! does the file exist, and is it 64-bit?
```

```
hello_64: ELF 64-bit LSB executable, AMD x86-64, version 1 (SYSV), for
GNU/Linux 2.6.9, dynamically linked (uses shared libs), for GNU/Linux
2.6.9, not stripped
```

For 32-bit gcc support:

```
% gcc -m32 -o ./hello_32 ./hello.c    ! create a 32-bit executable
% file ./hello_32    ! does the file exist, and is it 32-bit?
```

```
hello_32: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), for
GNU/Linux 2.6.9, dynamically linked (uses shared libs), for GNU/Linux
2.6.9, not stripped
```

Installation Steps for Linux

Follow these instructions to install the software:

1. Unpack the PGI software.

Download the software from www.pgroup.com or another electronic distribution site. In the instructions that follow, replace <tarfile> with the name of the file that you downloaded.

Note

The PGI products cannot be installed into the same directory where the tar file is unpacked.

Use the following command sequence to unpack the tar file in a temporary directory before installation:

```
% mkdir /tmp/pgi
% mv <tarfile>.tar.gz /tmp/pgi
% cd /tmp/pgi
% tar xpfz <tarfile>.tar.gz
```

2. Run the installation script.

Note

The installation script for PGDBG is **install**. These instructions refer to this as the installation script.

The installation script *must* run to completion to properly install the software.

Execute the following script in the directory where you unpacked the tar file:

```
% ./install
```

To successfully run this script to completion, do the following:

- Consent to the PGI end-user license agreement (EULA).
- Determine whether to perform a local installation or a network installation.
- Define where to place the installation directory.

After the software is installed, the installation script performs system-specific customization.

If you are performing a network installation for PGDBG, you are asked for a common local directory on each system. The network installation uses this local directory, or creates it if it does not exist, on each system to store system-specific header files and libraries.

3. Make PGDBG accessible.

After software installation is complete, each user's shell environment must be initialized to use PGDBG.

64-bit as default

To make the 64-bit PGDBG the default:

In `csh`, use these commands:

```
% setenv PGI /opt/pgi
% set path = ($PGI/linux86-64/12.9/bin $path)
```

In `bash`, `sh`, or `ksh`, use these commands:

```
$ PGI=/opt/pgi; export PGI
$ PATH=$PGI/linux86-64/12.9/bin:$PATH; export PATH
```

32-bit as default

To make the 32-bit PGDBG the default:

In `csh`, use these commands:

```
% setenv PGI /opt/pgi
% set path = ($PGI/linux86/12.9/bin $path)
```

In `bash`, `sh`, or `ksh`, use these commands:

```
$ PGI=/opt/pgi; export PGI
$ PATH=$PGI/linux86/12.9/bin:$PATH; export PATH
```

Note

PGDBG supports debugging both 32-bit and 64-bit programs. PGDBG automatically determines the architecture of the program and configures itself accordingly.

4. Verify the release number of the installed software.

To verify the release number of the products you have installed, use the `-v` option.

```
pgdbg -V
```

5. Review documentation.

You can view the online HTML and PDF documentation using any web browser by opening the file:

```
$PGI/linux86-64/12.9/doc/index.htm
```

or

```
$PGI/linux86/12.9/doc/index.htm
```

You may want to bookmark this location for easy future reference to the online manuals.

6. Complete network installation tasks. [Network Installations only]

For a network installation, you must run the local installation script on each system on the network where PGDBG will be available for use.

If your installation base directory is `/opt/pgi` and `/usr/pgi/shared/12.9` is the common local directory, then run the following commands on each system on the network.

```
/opt/pgi/linux86/12.9/bin/makelocalrc -x /opt/pgi/linux86/12.9 \  
-net /usr/pgi/shared/12.9  
/opt/pgi/linux86-64/12.9/bin/makelocalrc -x /opt/pgi/linux86-64/12.9 \  
-net /usr/pgi/shared/12.9
```

These commands create a system-dependent file `localrc.machinename` in both of these directories: `/opt/pgi/linux86/12.9/bin` and `/opt/pgi/linux86-64/12.9/bin`. The commands also create the following three directories containing libraries and shared objects specific to the operating system and system libraries on that machine:

```
/usr/pgi/shared/12.9/lib  
/usr/pgi/shared/12.9/liblf  
/usr/pgi/shared/12.9/lib64.
```

Note

The **makelocalrc** command does allow the flexibility of having local directories with different names on different machines. However, using the same directory on different machines allows users to easily move executables between systems that use PGI-supplied shared libraries.

Installation of PGDBG for Linux is now complete. For assistance with difficulties related to the installation, send e-mail to trs@pgroup.com.

Common Linux Installation Issues

If you are having problems executing PGDBG, you might want to examine the Java Runtime Environment on your system.

Chapter 4. Installations on Apple Mac OS X

This section describes how to install PGDBG on an Apple computer running Mac OS X.

Note

PGI products for MacOS are only supported on Intel processor-based Macintosh computers running MacOS version 10.6.8 or greater. Previous versions of MacOS may be unstable for 64-bit programs. Using this release requires that Apple Xcode 3.2 or greater be installed. Xcode is available from <http://developer.apple.com>.

- For installations on 32-bit x86 systems, the PGI installation process installs only the osx86 versions of PGDBG.
- For installations on 64-bit x64 systems running an osx86-64 execution and development environment, the PGI installation process installs the osx86-64 version of PGDBG.
- If the 32-bit GCC development package is already installed on the system, the 32-bit osx86 tools are installed on a 64-bit x64 system.

The 32-bit and 64-bit PGDBG have the same command names, and the environment you target by default, either osx86-64 or osx86, depends on the version of the debugger that comes first in your path settings.

The default installation base directory is `/opt/pgi`.

Preparing to Install on MacOS

To prepare for the installation:

- Verify you have enough free disk space.
 - On the osx86 platform, PGDBG requires 15 MB of free disk space.
 - On the osx86-64 platform, PGDBG requires 25 MB of free disk space.
- Verify that Xcode 3.2 or greater is installed.

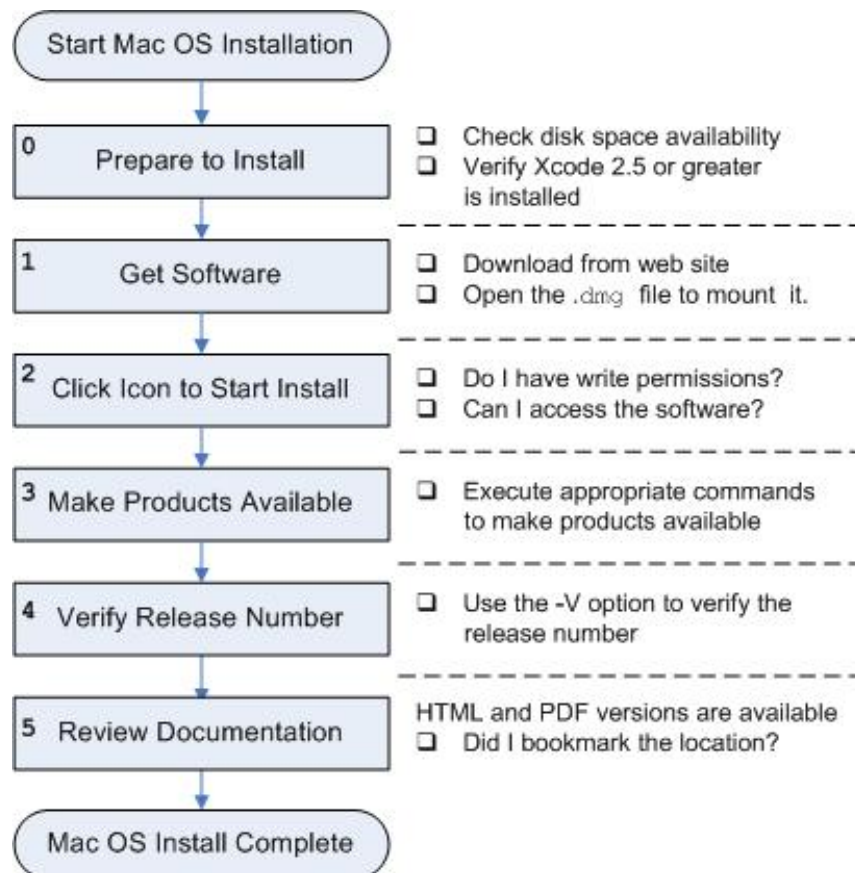
- If you know how to run Xcode, start Xcode and click About Xcode to verify the version is 3.2 or greater.
- If you do not know how to run Xcode or are uncertain if it is installed on your system, do the following:
 1. From the Apple Menu, select About This Mac.
 2. Click More Info.
 3. Select System profiler | Software | Applications.
 4. Scroll through the alphabetical list and verify Xcode is in it.
 5. Verify the version is 3.2 or greater.

Note

PGI software for MacOS requires the Xcode application, which provides several components of the tool chain, including the system assembler, linker, and runtime libraries. However, PGI software runs in Terminal, not in the Xcode IDE, and PGDBG has its own GUI.

In preparation for installing PGDBG on MacOS, first review [Figure 4.1](#), an overview of the installation process.

Figure 4.1. MacOS Installation Overview



Installation Steps for MacOS

Once you have prepared for the installation, follow these instructions to install the software:

1. Access the installation package.

Download the software from www.pgroup.com or another electronic distribution site. The file you download is `PGI_Debugger_126.dmg`. If it does not mount automatically, open this file to mount it.

2. Install the software.

Double-click the `PGI Debugger 12.9.pkg`, which is part of the mounted disk. Follow the installation instructions.

1. When you see the initial system check dialog, click continue to allow the installation script to check that your system has the required components for installing the software, such as Xcode 3.2 or greater and `gcc`.
2. Select the drive and, if you want, also select an installation directory other than the default directory: `/opt/pgi`.

After the software is installed, the installation script performs some system-specific customization, and then initializes for licensing.

3. Make PGI products accessible.

Once software installation is complete, you can bring up a PGI Terminal window by double-clicking the `PGI2012.terminal` file in the installation directory, typically `/opt/pgi`. If Terminal is currently open, you can bring up a PGI window by using the New Windows and New Tab commands, and then selecting `PGI2012`.

4. Verify the release number.

To verify the release number, use the `-v` option with the debugger command:

```
pgdbg -V
```

5. Review documentation.

You can view the online HTML and PDF documentation using any web browser by opening the file:

```
/opt/pgi/osx86/12.9/doc/index.htm
or
/opt/pgi/osx86-64/12.9/doc/index.htm
```

You may want to bookmark this location for easy future reference to the online manuals.

End-user Environment Settings on MacOS

Once software installation is complete, whenever you bring up a PGI command window by double-clicking on the `PGI2012.terminal` file, PGDBG is accessible and your environment is pre-initialized. You can, however, use the following information to initialize your Terminal shell manually for use of the PGI products.

Make 32-bit PGDBG the default

The following commands make the 32-bit PGDBG the default.

In bash, sh, or ksh, use this commands:

```
$ PGI=/opt/pgi; export PGI
```

In csh, use this commands:

```
% setenv PGI /opt/pgi
```

Make 64-bit PGDBG the default

The following commands make the 64-bit PGDBG the default.

In bash, sh, or ksh, use this commands:

```
$ PGI=/opt/pgi; export PGI
```

In csh, use these commands:

```
% setenv PGI /opt/pgi
```

Note

PGDBG supports debugging both 32-bit and 64-bit programs. PGDBG automatically determines the architecture of the program and configures itself accordingly.

Chapter 5. Installations on Microsoft Windows

This section describes how to install PGDBG on a system running a Microsoft Windows operating system. These instructions are valid for both 64-bit and 32-bit platforms.

For installations on 64-bit x64 systems running a 64-bit operating system, the PGI installer installs the 64-bit and 32-bit versions of PGDBG. For installations on 32-bit x86 systems, the PGI installer installs only the 32-bit versions of PGDBG.

Preparing to Install on Windows

Verify you have enough free disk space. PGDBG requires 150 MB of free disk space during the installation.

Installation Steps for Windows

Once you have prepared for the installation, follow these instructions to install the software:

Note

Administrator privileges are required to install PGI software.

1. Log in as Administrator.

Download the software from www.pgroup.com or another electronic distribution site.

2. Start the installation.

If you obtained your software from PGI, run the installation executable file on the target machine. The installation executables are:

pgdbg-126.exe	32-bit Windows
pgdbgx64-126.exe	64-bit/32-bit Windows

3. Review documentation.

You can view the online documentation by using any web browser to go to:

www.pgroup.com/resources/docs.htm

Tip

You may want to bookmark this location for easy future reference to the online manuals.

Windows Firewall and PGI Debugging

Microsoft Windows Firewall runs by default on some types of systems, such as Windows XP and Windows Vista. Suppose this application is running on your system. Unless the PGI debugger is included in the Windows Firewall Exceptions list, Windows Firewall may try to block the PGI debugger engine when you debug a program.

Automatic Additions to Windows Firewall Exceptions List

When PGI software is installed

If Windows Firewall is enabled when PGI software is installed, certain components are automatically added to the Exceptions list. These components appear as follows:

PGI Debugger 2012 (32-bit)

PGI Debugger 2012 (64-bit) - not added to the Exceptions list on 32-bit systems.

When PGI software is uninstalled

If Windows Firewall is enabled when PGI software is uninstalled, the components previously listed are automatically removed from the Exceptions list.

When using PGDBG to Debug

If PGDBG is not listed in the Exceptions list and Windows Firewall is enabled when you use PGDBG to debug, the Firewall displays a dialog that allows you to Unblock the application named **pgdebug**. If you choose the Unblock option, Windows Firewall adds the debugger (pgdebug) to its list of Exceptions and you do not see the pop-up dialog again unless you reinstall.

Tip

On rare occasions, this pop-up may prevent the debug session from starting correctly. If this occurs, use the Task Manager to end the debug session.

Note

You can manually add these components to the Windows Firewall list of Exceptions.

Chapter 6. Contact Information

You can contact The Portland Group at:

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STMicroelectronics, Inc.
Two Centerpointe Drive, Suite 320
Lake Oswego, OR 97035 USA

Or electronically using any of the following means:

Fax	+1-503-682-2637
Sales	sales@pgroup.com
Support	trs@pgroup.com
WWW	www.pgroup.com

The PGI User Forum is monitored by members of the PGI engineering and support teams as well as other PGI customers. The forum newsgroups may contain answers to commonly asked questions. Log in to the PGI website to access the forum:

www.pgroup.com/userforum/index.php

Many questions and problems can be resolved by following instructions and the information available at our frequently asked questions (FAQ) site:

www.pgroup.com/support/faq.htm

All technical support is by e-mail or submissions using an online form at www.pgroup.com/support. Phone support is not currently available.

PGI documentation is available at www.pgroup.com/resources/docs.htm or in your local copy of the documentation in the release directory [doc/index.htm](#).

