

PGDBG® Debugger Release Notes

Version 14.3



The Portland Group®

PGDBG[®] Release Notes
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Chapter 1. Release Overview

Welcome to Release 2014 of the PGDBG debugger for 32-bit and 64-bit x86-compatible processor-based workstations, servers, and clusters running versions of the Linux, OS X, or Windows operating systems. This document describes late-breaking information not included in the current printing of the PGI Debugger Guide.

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.

Release Components

Release 2014 includes the multi-thread graphical debugger for debugging applications.

Supported Platforms and Operating Systems

There are six platforms that PGDBG supports:

- *32-bit Linux* - supported on *32-bit Linux operating systems* running on either a 32-bit x86 compatible or an x64 compatible processor.
- *64-bit/32-bit Linux* – includes all features and capabilities of the 32-bit Linux version, and is also supported on *64-bit Linux operating systems* running an x64 compatible processor.
- *32-bit Windows* – supported on *32-bit Windows operating systems* running on either a 32-bit x86 compatible or an x64 compatible processor.

- *64-bit/32-bit Windows* – includes all features and capabilities of the 32-bit Windows version, and is also supported on *64-bit Windows operating systems* running an *x64* compatible processor.
- *32-bit OS X* – supported on 32-bit OS X operating systems running on either a 32-bit or 64-bit Intel-based Mac system.
- *64-bit OS X* – supported on 64-bit OS X operating systems running on a 64-bit Intel-based Mac system.

Chapter 2. New or Modified Features

This chapter provides information about the new or modified features of Release 2014 of the PGI Debugger.

What's New in Release 2014

- A number of problems are corrected in this release. Refer to www.pgroup.com/support/release_tprs.htm for a complete and up-to-date table of technical problem reports, TPRs, fixed in recent releases of the PGI compilers and tools. This table contains a summary description of each problem as well as the version in which it was fixed.

Chapter 3. Troubleshooting Tips and Known Limitations

This chapter contains information about known limitations, documentation errors, and corrections.

For up-to-date information about the state of the current release, visit the frequently asked questions (FAQ) section on [pgroup.com](http://www.pgroup.com) at: www.pgroup.com/support/index.htm.

Debugging Issues

The following are known debugging issues across platforms.

- Before *PGDBG* can set a breakpoint in code contained in a shared library, `.so` or `.dll`, the shared library must be loaded.
- Breakpoints in processes other than the process with rank 0 may be ignored when debugging MPICH-1 applications when the loading of shared libraries to randomized addresses is enabled.
- Debugging of PGI Unified Binaries™, that is, 64-bit programs built with more than one `-tp` option, is not fully supported. The names of some subprograms are modified during compilation, and *PGDBG* does not translate these names back to the names used in the application source code. For detailed information on how to debug PGI Unified Binary files, see www.pgroup.com/support/tools.htm.

Chapter 4. Contact Information

You can contact PGI at:

Two Centerpointe Drive, Suite 320
Lake Oswego, OR 97035 USA

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

Or contact us electronically using any of the following means:

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

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

Many questions and problems can be resolved at our frequently asked questions (FAQ) site at www.pgroup.com/support/faq.htm.

PGI documentation is available at www.pgroup.com/resources/docs.htm or in your local copy of the documentation in the release.

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