



IBM Parallel Environment Developer Edition for Linux on x86 Architecture, V1.2 simplified (HVEC)

Table of contents

1 Overview	3 Publications
2 Key prerequisites	4 Technical information
2 Planned availability date	7 Prices
2 Description	7 Announcement countries
3 Product number	

At a glance

IBM® Parallel Environment (PE) Developer Edition V1.2 provides an Eclipse-based integrated development environment (IDE).

- Helps improve parallel application developer productivity throughout the edit, compile, debug, and run development cycle
- Includes an integrated set of performance analysis tools that helps the application developer tune a serial or parallel application

Overview

IBM PE Developer Edition for Linux™ on x86 Architecture, V1.2 provides an integrated development environment, combining open source tools and IBM proprietary tools. It consists of two major integrated components:

- A workbench component that runs on a desktop or laptop
- A server component that runs on select IBM System x® and iDataPlex® servers

Version 1.2 enhancements include:

- A simplified selection of hardware performance counter groups for IBM High Performance Computing (HPC) Toolkit is provided.
- Eclipse is upgraded to Version 4.2 (Juno), and Parallel Tools Platform (PTP) is upgraded to Version 6.0.
- The setup for application invocation in PTP is simplified. This includes the elimination of the resource manager view and explicit creation and starting of resource managers.
- A simplified launch configuration for Parallel Environment and LoadLeveler® is provided.
- Coding assist tools and online help are available for OpenSHMEM and OpenACC. Upgrades are also provided for MPI V2.2 and OpenMP V3.1.
- PTP's support for modules and other environment management systems eases the process of configuring a project's build and runtime environments.
- Improvements to synchronized projects make working with source codes on remote machines easier.

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Key prerequisites

- IBM System x servers
- SUSE Linux Enterprise Server (SLES) 11 SP2
- Red Hat Enterprise Linux (RHEL) 6.2

Planned availability date

September 7, 2012

Availability of programs with an encryption algorithm in France is subject to French government approval.

Description

The integrated development environment (IDE) is an Eclipse PTP-based development environment that lets developers edit, compile, run, and debug their applications all from within the framework. The IDE editor increases developer productivity with coding assist tools such as interactive code completion and syntax-directed highlighting of source code.

The performance analysis tools integrated with the IDE help developers locate performance problems in their application code, including tools to analyze CPU resource usage, MPI profiling and tracing, and I/O profiling.

These performance management tools may improve systems availability. Performance management tools allow you to optimize the use of computing resources, thereby protecting those investments. The performance tools provided by IBM PE Developer Edition can help you understand the utilization of system resources concurrently so you can balance your workloads or tune programs. By maximizing system resource utilization, you can optimize your system and network performance.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Reference information

Refer to Software Announcement [ZG12-0081](#), dated April 11, 2012 .

Product number

No new information for release 2.

Publications

No hardcopy publications are shipped with this program.

The Eclipse Parallel Tools Platform Installation Guide is included on the product media and is available from the HPC Central website in the documentation section

<http://www.ibm.com/developerworks/wikis/display/hpccentral/HPC%20Central>

The following publication is available from the web:

IBM High Performance Computing Toolkit Installation and Usage Guide
(SC23-6940)

To access the above documentation, refer to the IBM Cluster Information Center website. This website contains the most recent documentation in PDF and HTML formats and is located at

<http://publib.boulder.ibm.com/infocenter/clresctr/vxrx/index.jsp>

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Select your country, and then select the product as the category.

Technical information

Specified operating environment

Operating environment

For IBM PE Developer Edition server function (one of the following):

- Red Hat Enterprise Linux (RHEL) 6.2
- SUSE Linux Enterprise Server (SLES) 11 SP2

For IBM PE Developer Edition client function (one of the following):

- Microsoft™ Windows™ XP (32 bit)
- Microsoft Windows 7 (32 bit or 64 bit)
- RHEL 5 (32 bit or 64 bit)
- RHEL 6 (32 bit or 64 bit)
- SLES 11 (32 bit or 64 bit)
- Apple Mac OS X 10.6 (64 bit)

Note: The Windows and Linux operating systems require Java™ runtime 6.0.9, provided with IBM PE Developer Edition. Mac OS will use the Java runtime 1.6.0.24, or later, distributed with the Mac OS X operating system.

Hardware requirements

For IBM PE Developer Edition server function (one of the following):

- IBM System x iDataPlex
- IBM Intelligent Cluster™
- Select IBM System x servers

For IBM PE Developer Edition client function:

- Any hardware capable of running Java 1.6, or later, on the supported operating systems listed in the [Software requirements](#) section with a minimum of 2 GB memory; 4 GB memory and 500 MB free disk space recommended

Note: For supported levels, compatibility, and limitations regarding InfiniBand switch support, refer to the readme located under documentation and *IBM High Performance Computing Clusters Service Packs* at

<https://www.ibm.com/developerworks/wikis/display/hpccentral/HPC+Central>

Software requirements

IBM PE Developer Edition server function:

- To run parallel operating environment jobs, IBM PE Runtime Edition for Linux on x86 Architecture, V1.2 is required.
- To run batch Parallel Operating Environment jobs, LoadLeveler for Linux on x86 Architecture, V5.1 is required.

Planning information

Packaging

For software products in this announcement, physical media, and hardcopy documentation is not included in the deliverable package. The software code is delivered only via electronic download.

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Supplies

None

Security, auditability, and control

IBM PE Developer Edition for Linux on x86 Architecture uses the security and auditability features of the system in which it is installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services

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IBM Global Financing	Yes
Field installable features	Yes
Customer setup	Yes
Model conversions	No
Product availability status	New

IBM warrants that the program will conform at the date of shipment to the current specifications, provided that the program is properly used in the specified operating environment.

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Licensed Programs	Yes
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Features and options only

Field-installable	Yes
Customer setup	Yes
Support period	Program Services will be available for a minimum of three years. A formal withdrawal will be issued one year prior to end of Program Services.
Optional upgrade	No
Licensed programs	Yes

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License Information form numbers

IBM PE Developer Edition for Linux on x86 Architecture V1.2: L-RHAN-8UYKD2

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Field-installable features

Yes

Model conversions

No

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

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