



# IBM Parallel Environment Developer Edition V1.2, running on IBM Power Systems , is simplified

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## 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 serial or parallel applications

## Overview

IBM PE Developer Edition 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 Power Systems™ and IBM PureFlex™ Systems 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

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- IBM Power Systems ( POWER7® )
- IBM PureFlex Systems ( POWER7 )
- Red Hat Enterprise Linux™ (RHEL) 6.2

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## Planned availability date

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September 7, 2012

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## Description

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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.

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### Accessibility by people with disabilities

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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](http://www.ibm.com/able/product_accessibility/index.html)

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### Section 508 of the US Rehabilitation Act

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IBM PE Developer Edition is capable as of September 7, 2012, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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## Reference information

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Refer to:

- Software Announcement [211-236](#), dated October 25, 2011
- Software Announcement [212-078](#), dated April 11, 2012

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## Program number

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Program number	VRM	Program name
5765-PED	1.2.0	IBM PE Developer Edition for AIX
5765-PDP	1.2.0	IBM PE Developer Edition for Linux on Power

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## Product identification number

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Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-PED	5660-PED 5661-PED	5663-PED 5664-PED 5662-PED
5765-PDP	5660-PDP 5661-PDP	5663-PDP 5664-PDP 5662-PDP

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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

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### Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM , you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=212-294>

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## Publications

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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/vrx/index.jsp>

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in

the US) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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## Technical information

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### Specified operating environment

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#### Hardware requirements

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

- IBM Power Systems or IBM PureFlex compute nodes, based on POWER7 technology, with supported adapters and switch
- Stand-alone POWER7 clusters or POWER7 clusters connected with a LAN supporting IP

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 adapter and 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 for AIX® , V1.2 server function:

- AIX 7.1 with Service Pack 3, or later.
- To run parallel operating environment jobs, IBM PE Runtime Edition for AIX , V1.1 is required.
- To run batch Parallel Operating Environment jobs, IBM Tivoli® Workload Scheduler LoadLeveler for AIX , V5.1 is required.

IBM PE Developer Edition for Linux on Power® , V1.2 server function:

- Red Hat Enterprise Linux 6.2.
- To run parallel operating environment jobs, IBM PE Runtime Edition for Linux on Power , V1.2 is required.
- To run batch Parallel Operating Environment jobs, LoadLeveler for Linux on Power , V5.1 is required.

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

- Microsoft™ Windows™ XP (32 bit)
- Microsoft Windows 7 (32 bit or 64 bit)
- Red Hat Enterprise Edition (RHEL) 5 (32 bit or 64 bit)
- RHEL 6 (32 bit or 64 bit)
- SUSE Linux Enterprise Server (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.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM , such as an announcement

letter. Documentation and other program content may be supplied only in the English language.

## **Planning information**

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### ***Packaging***

IBM PE Developer Edition is distributed as a single package for AIX or Linux , available via DVD media with the following:

- IBM International Program License Agreement in multilanguage booklet and its License Information in multiple languages
  - ppedev.loc.license ( AIX )
  - ppedev\_license-1.2.0-0.ppc64.rpm ( Linux )
- Product readme file that describes the program's specified operating environment and program specifications
- Installation document for Eclipse PTP
  - ptp\_aix\_inst\_guide.pdf ( AIX )
  - ptp\_linux\_inst\_guide.pdf ( Linux )
- Program images for AIX :
  - PTP Eclipse (ppedev.ptp, ppedev.ptp.rte)
  - HPC Toolkit (ppedev.hpct, ppedev.rte)
- Program images for Linux :
  - PTP Eclipse (ppedev\_ptp\_rh6p-1.2.0-0.ppc64.rpm, ppedev\_ptp\_rte\_rh6p-1.2.0-0.ppc64.rpm)
  - HPC Toolkit (ppedev\_hpct\_rh6p-1.2.0-0.ppc64.rpm, ppedev\_runtime\_rh6p-1.2.0-0.ppc64.rpm)

### **Security, auditability, and control**

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IBM PE Developer Edition uses the security and auditability features of the system on 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 communication facilities.

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## **Software Services**

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IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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## Ordering information

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### **Charge metric**

Program name	Part number or PID number	Charge metric
IBM PE Developer Edition for AIX (server)	5765-PED	Per install - small, medium, or large server including one year SWMA
IBM PE Developer Edition for Linux (server)	5765-PDP	Per install - small, medium, or large server including one year SWMA
IBM PE Developer Edition for AIX (client)	5765-PED	Per install - including one year SWMA
IBM PE Developer Edition for Linux (client)	5765-PDP	Per install - including one year SWMA

### **Install**

Install is a unit of measure by which the program can be licensed. An *install* is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

No new information for this release update.

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## Terms and conditions

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable

charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

**License Information form numbers**

L-RHAN-8UYPEN  
L-RHAN-8UYPHS

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>

**Limited warranty applies**

Yes

**Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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**Money-back guarantee**

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

**Volume orders (IVO)**

Yes. Contact your IBM representative.

**Passport Advantage applies**

No

**Software Subscription and Support applies**

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions,

and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

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Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

***IBM Operational Support Services -- SoftwareXcel***

No

***Other support***

Power Systems SWMA

***System i Software Maintenance applies***

No

***Variable charges apply***

No

***Educational allowance available***

Yes. A 15% education allowance applies to qualified education institution customers.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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## **IBM Electronic Services**

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support.



The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

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## Prices

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Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

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