



# IBM Parallel Environment Developer Edition for Linux on x86 Architecture, V1.1 offers an Eclipse-based application development environment and performance tools

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## At a glance

IBM® Parallel Environment (IBM PE) Developer Edition for Linux™ on x86 Architecture, V1.1 provides an Eclipse-based integrated development environment (IDE).

- Improves 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

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

IBM PE Developer Edition for Linux on x86 Architecture, V1.1 is available for System x® ordering.

IBM PE Developer Edition provides an integrated development environment combining open source tools and IBM proprietary tools to satisfy the following requirements:

- Edit, compile, run, and debug an application.
- Perform static analysis of the application to find common programming problems.
- Analyze application performance for serial and parallel applications.
- Easily run and debug parallel applications using IBM PE interactively.
- Submit batch serial or parallel jobs to IBM LoadLeveler®.

IBM PE Developer Edition consists of two major components that are integrated together:

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

The workbench component contains an industry standard, state-of-the-art workbench client IDE for enhancing the productivity of high performance and technical computing programmers.

The server component contains the IBM High Performance Computing (HPC) Toolkit, which is used to analyze and tune the performance of application programs. It also contains Scalable Communication Infrastructure (SCI), which is a communication library and run time for a tools developer to use as infrastructure in developing scalable tools.

Licenses for offerings in this announcement include one or three years of Software Subscription and Support. Software Subscription and Support renewals for all features are aligned through Passport Advantage® Express or Passport Advantage, reducing the administrative burden of keeping your Subscription and Support up to date.

If a new release of a given offering in this announcement is made generally available in Passport Advantage after the announcement of the offering in System x ordering systems, customers may elect to take delivery of any release generally available for that offering during the product registration process.

Eligible software products, offered and selected during the ordering process with each hardware system, are enabled for electronic download for the system unit for which the product was ordered. Optionally, software and license-only orders can be created for these products based on existing supported hardware system units in your business environment. Offerings included in this announcement are available exclusively by electronic download.

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## Key prerequisites

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- IBM System x servers
- SUSE Linux Enterprise Server (SLES) 11 SP1
- Red Hat Enterprise Linux (RHEL) 6.2

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## Planned availability date

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April 27, 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.

## 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)

## Section 508 of the US Rehabilitation Act

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IBM IBM PE Developer Edition for Linux on x86 Architecture is capable as of April 27, 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 on the following website

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

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## Program number

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Program number	VRM	Program name
5641-PD1	1.1.1	IBM PE Developer Edition for Linux on x86 Architecture with 1 Yr SW S&S
5641-PD3	1.1.1	IBM PE Developer Edition for Linux on x86 Architecture with 3 Yr SW S&S

## Product identification number

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Program PID number

5641-PD1  
5641-PD3

## Order handling

To allow for ease of order submission, the offerings in this announcement can be configured in conjunction with eligible System x hardware, software, and license-only configurations that can be created for this product based on existing supported System x hardware system units in a given business environment.

Orders placed for the eligible offerings in this announcement will be routed and fulfilled through Passport Advantage Express. Invoicing for the initial license orders will occur through the System x order management systems. Subscription and Support renewals will be managed through Passport Advantage.

Passport Advantage allows you to have a common anniversary date for Software Subscription and Support renewals. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases initially include 12 or 36 full months of Subscription and Support coverage. Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date but managed and invoiced through Passport Advantage. Thereafter, all Software Subscription and Support will renew at the common anniversary date and include 12 full months of Subscription and Support.

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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>

### 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=212-075>

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## Publications

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No hardcopy publications are shipped with this program. Publications for IBM PE Developer Edition are shipped with the product.

The Eclipse Parallel Tools Platform Installation Guide is included on the product media.

The IBM High Performance Computing Toolkit Installation and User Guide and the Eclipse Parallel Tools Platform Installation guide are available from the HPC Central website in the documentation section.

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

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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 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:

- Red Hat Enterprise Linux 6.2 or SUSE Linux Enterprise Server (SLES) 11 SP1.
- 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.

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

- Microsoft™ Windows™ XP (32 bit)
- Microsoft Windows 7 (32 bit)
- Red Hat Enterprise Edition (RHEL) 5 (32 bit or 64 bit)
- RHEL 6 (32 bit or 64 bit)
- SUSE Linux Enterprise Server (SLES) 10 (32 bit or 64 bit)
- SLES 11 (32 bit or 64 bit)
- Apple Mac OS X 10.6 (32 bit or 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.

### ***Companion products***

The following products would complement this product:

- IBM LoadLeveler for Linux on x86 Architecture, V5.1 (5641-LL1)
- IBM PE Runtime Edition for Linux on x86 Architecture, V1.2 (5641-PR1)
- IBM System x options
- IBM System x servers

### **Planning information**

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#### ***Installability***

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

#### ***Packaging***

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

After receipt of an order, the Business Partner or end-user customer will be required to register and accept Passport Advantage or Passport Advantage Express terms and conditions. The product includes the license and one or three years of Software Subscription and Support.

Your Proof of Entitlement for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program; for example, number of processors, number of users) and quantity acquired.

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

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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 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 Linux on x86 Architecture server function	5641-PD1	Per install - small, medium, or large server with one year S&S
IBM PE Developer Edition for Linux on x86 Architecture client function	5641-PD1	Per install
IBM PE Developer Edition for Linux on x86 Architecture server function	5641-PD3	Per install - small, medium, or large server with three year S&S
IBM PE Developer Edition for Linux on x86 Architecture client function	5641-PD3	Per install

## 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.

## New Licensees

Orders for new licenses will be accepted now. Electronic download ability begins on April 27, 2012.

## Basic licenses

To order the programs described in this announcement, specify the type model number, order type description, supply feature, and quantity of desired licenses for the appropriate one-time charge (OTC) features listed in the tables below. After receipt of your order, you will be requested to register through Passport Advantage Express to allow for entitlement for support and notification of upgrades. Upon registration completion you will be provided with a website for the electronic download. The one-time charge for the product includes the license and one or three years of Software Subscription and Support (S&S).

Single entity offering (SEO) numbers in the table below can be ordered through [ibm.com](http://ibm.com). The SEO numbers in the table below are equivalent to the type model number, description, supply feature, and OTC billing feature numbers as designated in the table. After receipt of your order, you will be requested to register through Passport Advantage Express to allow for entitlement for support and notification of upgrades. Upon registration completion, you will be provided with a website for the electronic download. The one-time charge for the product includes the license and one or three years of Software Subscription and Support.

Program number and feature description	Supply feature number	OTC billing feature number	SEO number
5641-PD1 IBM PE Developer Ed Linux x86, Sm 1-2 Sockets / Install w/1 Yr S&S	5809	0332	44X2510
5641-PD1 IBM PE Developer Ed Linux x86, Med 3-4 Sockets / Install w/1 Yr S&S	5809	0334	44X2511
5641-PD1 IBM PE Developer Ed Linux x86, Lg 5+ Sockets per Install w/1 Yr S&S	5809	0337	44X2512
5641-PD3 IBM PE Developer Ed Linux x86, Sm 1-2 Sockets / Install w/3 Yr S&S	5809	0333	44X2514
5641-PD3 IBM PE Developer Ed Linux x86, Med 3-4 Sockets / Install w/3 Yr S&S	5809	0335	44X2515
5641-PD3 IBM PE Developer Ed Linux x86, Lg 5+ Sockets per Install w/3 Yr S&S	5809	0336	44X2516

Program number and feature description	Supply feature number	OTC billing feature number	SEO number
5641-PD1 IBM PE Developer Edition for Linux on x86 Arch, Client w/1 Yr SW S&S	5809	0331	44X2509

### **Customization options**

Select the appropriate feature numbers to customize your order with delivery options desired. These features can be specified on the initial or MES orders.

Expedite shipments

Feature	Description
3445	Expedite

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order.

**Note:** Configurator support for this offering will be available April 24, 2012.

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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 International Passport Advantage Express Agreement.

### **Licensing**

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

### **Agreement for Acquisition of Software Maintenance**

These programs are licensed under the IBM Program License Agreement (IPLA). IBM includes one or three years of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired.

### **License Information form number**

L-RHAN-8KEP76

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.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

### ***Program Technical Support***

Technical support of a program product version or release will be available for a minimum of three years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee. (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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)***

No

### ***Passport Advantage applies***

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

### ***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

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

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.

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<http://www.ibm.com/software/passportadvantage>

***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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## **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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For additional information and current prices, contact your local IBM representative.

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: IBM PE Developer Edition for Linux on x86 Architecture

Program number and feature description	OTC billing feature number	SEO number	OTC
5641-PD1 IBM PE Developer Ed Linux x86, Sm 1-2 Sockets / Install w/1 Yr S&S	0332	44X2510	\$
5641-PD1 IBM PE Developer Ed Linux x86, Med 3-4 Sockets / Install w/1 Yr S&S	0334	44X2511	
5641-PD1 IBM PE Developer Ed Linux x86, Lg 5+ Sockets per Install w/1 Yr S&S	0337	44X2512	
5641-PD3 IBM PE Developer Ed Linux x86, Sm 1-2 Sockets / Install w/3 Yr S&S	0333	44X2514	
5641-PD3 IBM PE Developer Ed Linux x86, Med 3-4 Sockets / Install w/3 Yr S&S	0335	44X2515	
5641-PD3 IBM PE Developer Ed Linux x86, Lg 5+ Sockets per Install w/3 Yr S&S	0336	44X2516	

Program number and feature description	OTC billing feature number	SEO number	OTC
5641-PD1 IBM PE Developer Edition for Linux on x86 Arch, Client w/1 Yr SW S&S	0331	44X2509	\$
5641-PD3 IBM PE Developer Edition for Linux on x86 Arch, Client w/3 Yr SW S&S	0330	44X2513	

#### Expedite shipments

Feature	Description	OTC
3445	Expedite	\$

### **Pricing terms**

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Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-212-075-LIST\\_PRICES\\_2012\\_04\\_11.PDF](#)

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## Order now

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Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)

For IBM Business Partner: [pwswna@us.ibm.com](mailto:pwswna@us.ibm.com)

Mail: IBM Teleweb Customer Support  
ibm.com Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: YE001

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