



IBM PowerVM for IBM PowerLinux helps you increase business flexibility and overall IT productivity

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At a glance

IBM® PowerVM™ for IBM PowerLinux™ can boost overall system flexibility through virtualization technologies that can reallocate system resources to where they are needed and tap into additional resources on demand. IBM Power Systems™ servers running IBM PowerVM can help you:

- Consolidate servers
- Reduce server sprawl
- Simplify systems management
- Improve business resiliency
- Reduce total cost of ownership (TOC)
- Enhance performance by automatically reacting to anticipated and unanticipated spikes in server demand
- Reduce energy consumption
- Increase business flexibility

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

Overview

IBM PowerVM for IBM PowerLinux is optimized for the Linux™ operating system and is offered exclusively on the IBM PowerLinux family of Linux only POWER7® based servers. IBM PowerVM for IBM PowerLinux incorporates all the features of IBM PowerVM Enterprise Edition and provides unique advanced capabilities for Linux environments, including the ability to dynamically remove memory from running virtual machines (VMs) and reallocate it to other VMs.

IBM PowerVM for IBM PowerLinux gives you the ability to potentially reduce your TCO through server consolidation, increase business flexibility by reallocating system resources where they are needed, and increase overall IT productivity.

Key prerequisites

IBM PowerVM for IBM PowerLinux requires PowerLinux System server 8246-L2C and 8246-L2S.

Planned availability date

April 27, 2012

Description

IBM PowerVM for IBM PowerLinux is available for IBM PowerLinux offerings. IBM PowerLinux solutions realize performance and virtualization efficiencies, unique workload optimizing features and industry-leading reliability, availability, and scalability from the POWER7 platform. PowerLinux solutions provide a highly secure, resilient, and fully optimized stack for industry applications, open source infrastructure services, and emerging technology workloads.

IBM Systems Director for IBM PowerLinux V6.3 and IBM Systems Director VMControl™ for IBM PowerLinux V2.4 are also offered exclusively on IBM PowerLinux servers. IBM Systems Director for IBM PowerLinux includes management tools that can reduce operational complexity by providing the ability to remotely, discover, monitor, configure, and update your IBM PowerLinux servers. IBM Systems Director VMControl for IBM PowerLinux V2.4 simplifies workload management for rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want.

IBM PowerVM for IBM PowerLinux V2.2 contains the following functionality:

- IBM PowerVM Hypervisor
- Micro-Partitioning®
- Dynamic Logical Partitioning
- Shared Processor Pools
- Shared Storage Pools
- Integrated Virtualization Manager
- Live Partition Mobility
- Active Memory™ Sharing
- Active Memory Deduplication
- NPIV

Reference information

Refer to Hardware Announcement [112-063](#), dated April 24, 2012 for product details and ordering information.

Refer to Hardware Announcement [112-022](#), dated April 24, 2012 for product details and ordering information.

Refer to Hardware Announcement [212-090](#), dated April 24, 2012 for product details and ordering information.

Refer to Hardware Announcement [112-070](#), dated April 24, 2012 for product details and ordering information.

Program number

Program number	VRM	Program name
5765-PVL	2.2.1	IBM PowerVM for IBM PowerLinux

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-PVL	5771-PVL 5771-PVA (ALC)	5773-PVL

Reliability, Availability, and Serviceability (RAS)

The reliability of the IBM Power Systems starts with components, devices, and subsystems that are designed to be fault-tolerant. IBM Power Systems uses lower-voltage technology in the processor SCMs that improves the reliability of stacked latches to reduce soft error (SER) susceptibility. During the design and development process, subsystems go through rigorous verification and integration testing processes. During system manufacturing, systems go through a thorough testing process to help ensure high product quality levels.

The processor and memory subsystem contains a number of features designed to avoid or correct environmentally induced, single-bit, intermittent failures as well as handle solid faults in components, including selective redundancy to tolerate certain faults without requiring an outage or parts replacement.

Offering Information

Product information is available via the Offering Information website

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

Business Partner information

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=212-012>

Publications

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.

Technical information

Specified operating environment

Hardware requirements

IBM PowerVM for IBM PowerLinux requires PowerLinux System server 8246-L2C and 8246-L2S.

Software requirements

A Linux 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.

Limitations

IBM PowerVM for IBM PowerLinux only supports a Linux-based operating system running in a virtual machine.

Note: AIX® or IBM i is not supported on a virtual machine running on the IBM PowerVM for IBM PowerLinux.

For additional information, refer to the [Usage restrictions](#) section of this announcement, or to the License Information document that is available on the IBM Software License Agreement website

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

Planning information

Packaging

Your Proof of Entitlement (PoE) 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, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

Security, auditability, and control

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

Software Services

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/>

Ordering information

Charge metric

Program name	Part number or PID number	Charge metric
IBM PowerVM for IBM PowerLinux	5765-PVL	Per Processor Core

A processor (commonly called a *CPU* or *core*) is the unit of measure by which this program is licensed. It is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. A Proof of Entitlement (PoE) must be obtained for the appropriate number of processors based on the level of all processor cores activated and available for use by the program on the server.

Orders may be placed beginning with configurator availability.

For new orders, select from the following table:

IBM PowerVM for IBM PowerLinux V2.2 (5765-PVL): SWMA PIDs and features support this new offering.

IBM PowerVM for IBM PowerLinux V2.2 (5765-PVL)	
Description	Processor- based OTC feature number
Per processor core	0001

Software Maintenance

This software license offers Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after-license feature number.

Note: Software Maintenance renewals and out-year contracts for IBM PowerVM for IBM PowerLinux V2.2 (5765-PVL) via IBM Global Services contracts will be available for ordering on April 24, 2012.

Feature description	Program number	OTC feature number
SW Maintenance After License Charge Per Processor Core ALC	5771-PVA	1703
SW Maintenance Regist/7x24 Support 3 Year	5773-PVL	

System Program Order (SPO): An order for SPO 5692-LOP is mandatory for shipments of program distribution. The individual licensed program orders are for registration and billing purposes only. No shipment occurs under these orders.

Specify feature number 3435.

Machine-readable materials are only available on CD-ROM. To receive shipment of machine-readable materials the order needs to include SPO 5692-LOP.

The individual licensed program order (for example, 5765-PVL) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

Program number	Program/Function name	Feature number
5692-LOP	IBM PowerVM for PowerLinux Base	2375
5692-LOP	IBM PowerVM Expansion pack	2378

Basic Machine-Readable Material: Select one of the following priced feature numbers for media type under 5692-LOP.

Media type	Media feature number	Media process charges feature number
DVD	3435	1100 Media Charge
DVD	3435	1101 Media No-charge

Program number	Description	Feature number
5765-PVL	Branch Office Expedite	3445
5771-PVL	Branch Office Expedite	3445
5773-PVL	Branch Office Expedite	3445

Terms and conditions

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.

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

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

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 number

IBM PowerVM for IBM PowerLinux: LC23-4407.

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).

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

Usage restrictions

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

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.

For more information about the Passport Advantage Agreement, visit the Passport Advantage website at

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

IBM Operational Support Services -- SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

Yes

Educational allowance available

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

Statement of good security practices

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.

IBM Electronic Services

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>

Prices

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

For new orders, select from the following table:

IBM PowerVM for IBM PowerLinux V2.2 (5765-PVL): SWMA PIDs and features support this new offering.

IBM PowerVM for IBM PowerLinux V2.2 (5765-PVL)

Description	Processor based OTC feature number	OTC
Per processor core	0001	

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Feature description	Program number	OTC feature number	OTC
SW Maintenance After License Charge Per Processor Core ALC	5771-PVA	1703	
SW Maintenance Regist/7x24 Support 3 Year Per Processor Core Registration	5773-PVL	1456	
Per Processor Core 7x24		1457	

Variable charges: The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

Pricing terms

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-212-012-LIST_PRICES_2012_04_24.PDF](#)

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For IBM Business Partner: pwswna@us.ibm.com
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