

IBM Deep Computing Visualization, V1.4 brings additional visual systems capabilities and enhancements on both the Microsoft Windows OS and the Linux OS

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At a glance

Deep Computing Visualization, V1.4 adds Microsoft Windows XP as a supported operating system to its scalable visual networking (SVN) visualization solution, providing commodity networking and cluster rendering software that enables local visual collaboration.

Deep Computing Visualization offers a scalable, collaborative middleware infrastructure to help enrich the graphics function of OpenGL software applications.

With added features, Deep Computing Visualization, V1.4 is designed to provide improved performance, usability, and consummability, with wider support for independent software vendor (ISV) applications and improved out-of-the box support, along with Microsoft Windows support on both remote visual networking (RVN) and SVN modes.

Overview

IBM Deep Computing Visualization is based on industry-standard workstations, graphics-enabled servers, commodity networking, and cluster rendering software that enables both local and remote visual collaboration.

Application and cluster support is now provided in a Windows™ XP environment for both scalable visual networking (SVN) and remote visual networking (RVN) (32- and 64-bit). The following are functional enhancements to the overall offering:

- Server-side dashboard enhancements for RVN that improve general ease of use, providing a single dashboard for multiple applications, support for variable desktop font sizes, and keyboard shortcuts
- Improved resource management for RVN on Linux™
- A pluggable transport layer for SVN with a re-implementation of the existing MPI transport for Linux as a plug-in library and the addition of SDP socket transport plug-in libraries for InfiniBand networks on Linux and Windows
- Performance increases for SVN by enhancing the implementation of the existing encoding algorithms, reducing the processing overhead involved in encoding the OpenGL parameters prior to network broadcast, and altering how data buffers are handled during the encoding process prior to network broadcast
- Support for SVN on Windows XP, 32-bit and 64-bit with the addition of Windows XP 64-bit support for RVN
- Addition of GLX 1.4 support for both SVN and RVN on Linux, including pbuffer and pixmap rendering
- Improved out-of-the-box application start-up for SVN and RVN on Linux

Key prerequisites

Select IBM IntelliStation® graphics workstations and IBM servers with Microsoft™ Windows or Red Hat Enterprise Linux, and OpenGL.

Planned availability dates

- Electronic download: October 5, 2007
- CD media: November 9, 2007

Description

Accessibility by people with disabilities

A U.S. 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

Trademarks

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Linux is a trademark of Linus Torvalds in the United States, other countries or both.

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Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

The following publication is available from the Web and provided with the product:

- Deep Computing Visualization: Installation and User Guide

This displayable manual is viewable in PDF format from

<http://www.ibm.com/servers/deepcomputing/visualization>

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 U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be

Technical information

Specified operating environment

Hardware requirements:

For the remote visual networking (RVN) application host:

- IBM IntelliStation® Z Pro workstations or
- IBM System x™ 3755 systems
- NVIDIA Quadro FX family of ultra-high-end graphics adapters or
- NVIDIA Quadro Plex 1000 Models I, II and IV

For scalable visual networking (SVN):

- IBM IntelliStation Z Pro workstations or
- IBM System x systems for rendering nodes¹ and application nodes²
- NVIDIA Quadro FX family of ultra-high-end graphics adapters or
- NVIDIA Quadro Plex 1000 Models I, II and IV
- Cisco Topspin InfiniBand network interconnect

¹ System x 3755 systems

² System x servers that support Cisco InfiniBand (PCI-X or PCI-E x8)

Software requirements

- Any of the following operating systems:
 - Red Hat Enterprise Linux™ 3.0, Workstation Edition, Update 9
 - Red Hat Enterprise Linux 4.0, Workstation Edition, Update 5
 - Microsoft™ Windows™ XP Professional SP2 (32-bit and 64-bit) on supported hardware configurations
- RealVNC Visualization Edition (see Deep Computing Visualization product README for requirement details)
- For MPI:
 - Open MPI

Compatibility: For the SVN component, all nodes in the rendering cluster and the node on which the application runs must be running the same version and address mode of Linux, that is, either all 32-bit or all 64-bit.

Limitations: SVN and RVN interoperability will not be supported on the Windows OS.

SVN with DMX will not be supported on the Windows OS.

Planning information

Packaging: This program is available via CD-ROM media or electronic download via Passport Advantage. A product README and License Information are shipped with the product. Publications are available online and available in PDF format with the product. This program, when downloaded from a Web site, contains the applicable IBM license agreement, and License Information (LI), if appropriate, which will be presented for acceptance at the time of installation of the program. The license and LI will be stored in a directory such as LICENSE.TXT for future

reference.

Security, auditability, and control

Deep Computing Visualization uses the security and auditability features of the installed operating system. 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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

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

This product is available only via Passport Advantage. It is not available as shrinkwrap.

Product group: Other Software

Product Identifier	Description	(PID)
IBM Deep Computing Visualization		(5724-K69)

Product category: System Software

Charge metric

Program name	PID number	Charge metric
Deep Computing Visualization	5724-K69	Processor Value Units

Deep Computing Visualization supports multiple concurrent endstations for collaboration. These endstations, whether IBM or competitive products, do not have any software charges applied nor maintenance support.

Processor

A processor (commonly called a CPU or core) 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 units. With multicore technology, each core is considered a processor. With full capacity licensing, a Proof of Entitlement (PoE) must be acquired for all activated processors available for use on the server.

Value Unit: A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select programs, there are other designated measurements such as users, client devices, and messages. The number of Value Unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a Value Unit table. You must obtain a PoE for the calculated number of Value Unit entitlements for your implementation. The Value Unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

A processor core is a functional unit within a computing device that interprets and executes instructions. A processor core consists of at least an instruction control unit and one or more arithmetic or logic units. Not all processor cores require the same number of Value Unit entitlements. To calculate the number of Value Unit entitlements required, refer to the Value Unit Table on the following Web site

http://www.ibm.com/software/sw-lotus/services/cwepassport.nsf/wdocs/pvu_table_for_customers

With full capacity licensing, a PoE must be acquired for the appropriate number of Value Units based on all activated processor cores available for use on the server.

Passport Advantage

Program name/Description	Part number
IBM Deep Computing Visualization VU Lic + SWM 12 months	D571YLL
IBM Deep Computing Visualization VU Annual SWM Renewal	E02E2LL
IBM Deep Computing Visualization VU SWM Reinstate 12 mo	D571ZLL

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Entitled maintenance offerings

IBM Deep Computing Visualization
IBM Deep Computing Visualization for Linux
IBM Deep Computing Visualization for Windows

Media packs

IBM Deep Computing Visualization Linux 1.4 Eng	BH03FEN
IBM Deep Computing Visualization Windows 1.4 Eng	BH03GEN

Terms and conditions

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License Information form number: L-RHAN-75FMMF

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

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

Limited warranty applies: Yes

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.

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on another computer without paying additional license fees.

Volume orders (IVO): No

Passport Advantage applies: Yes, and through the Passport Advantage Web site at

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

Software Maintenance applies: Yes. Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Maintenance 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.

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While your Software Maintenance 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, 7 days a week. For additional details, consult your IBM Software Support Guide at

<http://techsupport.services.ibm.com/guides/handbook.html>

Software Maintenance 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 the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage Web site at

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

System i™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available: Not applicable

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 Service 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

Prices

Passport Advantage

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