



IBM InfoSphere Optim pureQuery Runtime for Linux , UNIX , and Windows V3.1 provides a runtime environment enhancing performance of existing and in-house enterprise database client applications

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At a glance

IBM® InfoSphere® Optim™ pureQuery Runtime helps to improve the performance of existing database applications without having to modify them, thus providing customers a more cost effective way to improve the efficiency of their software solutions.

InfoSphere Optim pureQuery Runtime also captures critical client information that can be used by a database administrator to locate clients and optimize their interaction with the database.

InfoSphere pureQuery Runtime provides an API that:

- Allows customers to build applications using features like static execution that improve performance of database queries
- Helps customers build more secure database applications.
- Helps customers more rapidly build database, applications, when used in conjunction with Data Studio

Overview

InfoSphere Optim pureQuery Runtime V3.1, previously known as IBM Optim pureQuery Runtime, provides a runtime environment that helps to enhance the performance of existing purchased and in-house enterprise database client applications written using Java™ or C, running stand-alone or in an application server environment.

pureQuery also provides an API that helps rapid development and deployment of new enterprise database applications, significantly reducing the development cost, time to market, or go-live cost for customers. Applications developed using the pureQuery API show improved performance due the underlying pureQuery technology, such as static execution of queries. Features of pureQuery, such as allowing additional authorizations to run queries, help customers build more secure database applications.

What's new in InfoSphere Optim pureQuery Runtime for V3.1

- Nested Query Beans, a feature that eases development of application code which executes and handles results from an SQL statement with joins

- A feature that simplifies moving of database applications that use pureQuery in an enterprise from test to production environments
- Performance improvements that make it possible to capture application SQL statements with low processing overhead
- Features that help leverage the Literal Substitution functionality for a larger variation of SQL statements and the ability to create a capture file by importing SQL statements from the IBM InfoSphere Optim Workload Query Tuner product
- The ability to remove SQL statements invalidated due to schema changes from the capture file
- Application development enhancements that reduce the need for the user to write custom code and deployment enhancements that include binder improvements and the ability to define group-level properties
- Logging improvements that include low-impact logging and logging into a repository
- New command line scripts to enhance the usability of pureQuery utilities

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

Key prerequisites

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

- October 21, 2011: Electronic availability
- November 18, 2011: Media availability

Description

InfoSphere Optim pureQuery Runtime is a database access platform used by database application developers and database administrators to help improve performance, enhance security, and speed up application development.

pureQuery delivers benefits to customers in two ways: the first is through its Client Optimization component and the second is through the development and runtime components.

The Client Optimization component captures the SQL statements run by existing applications and provides a number of features that help improve the performance of these SQL statements while providing insight into their usage by the database applications.

pureQuery delivers improved performance with its Client Optimization by converting dynamic SQL statements normally used by a JDBC, CLI, or .NET application to static SQL. It can automatically convert literal values in SQL statements to parameter markers, enabling better statement reuse and caching. pureQuery allows an administrator to specify an alternate SQL statement in place of the one used in the application. Insight into the applications that are running is provided by features that make it possible to track SQL statements directly back to the originating application code.

pureQuery provides development and runtime components to help developers rapidly develop (generate) new application code that simplifies the coding needed to execute SQL statements and handles the results that come back from such execution. This is done by generating Java code that provides convenience methods to set SQL parameters and generate Java classes that represent results coming back from such SQL statements. The generated code employs best coding practices and built-in performance enhancements.

pureQuery integrates tightly with IBM Data Studio and aids rapid application development by providing an user friendly graphical interface that generates pureQuery enabled application and test code needed to retrieve and process data from databases.

Version 3.1 delivers features that enhance the two major components of IBM InfoSphere Optim pureQuery Runtime:

- The Nested Query Beans feature that helps lower the cost of customer application development that involves use of complex Java objects to process results from SQL queries containing joins. Version 3.1 automates the generation of Java code needed to create nested beans that replicate the relational structure of the result data returned by SQL queries with joins.
- A utility that translates location and schema names in captured SQL statements to ease moving applications deployed with pureQuery from test environments to production environments in an enterprise. This translation utility is useful as location and schema names usually differ between test environments where SQL capture is typically done and production environments where the captured SQL statements are used to enable static execution.
- New capture mode with lower processing overhead that makes capturing in a production environment possible. Another capture mode introduced makes it possible for users to identify SQL statements encountered that have not been captured before and hence do not execute statically. This release offers a new mode that captures more application information than the modes available in previous versions of pureQuery.
- Literal substitution enhancements make it possible to handle a larger number of captured SQL statements containing literals than was possible in the previous releases. This release also makes it possible to create a capture file using SQL statements imported from the IBM InfoSphere Optim Query Workload Tuner.
- Application development enhancements that helps to reduce the need for the user to write custom code and deployment enhancements that include binder improvements and the ability to define group-level properties.
- A feature that provides the user with the ability to remove SQL statements from the capture file that have become obsolete or have been invalidated due to changes in schema or tables originally used by the SQL.
- Low-impact logging for the pureQuery Runtime component that makes it possible to leave logging on in a production environment. Logging into the pureQuery repository has also been introduced.
- New command line scripts that function like macros and enhance usability of pureQuery utilities by consolidating and combining them, thus reducing the number of steps to complete a given operation.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM website

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

Section 508 of the US Rehabilitation Act

IBM InfoSphere Optim pureQuery Runtime for Linux™, UNIX™, and Windows™ V3.1 is capable as of October 21, 2011, when used in accordance with IBM's associated 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 U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following website

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

Product positioning

InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows V3.1 is an upgrade from Optim pureQuery Runtime for Linux, UNIX, and Windows, V2.2. InfoSphere Optim pureQuery Runtime works with IBM Data Studio to help accelerate development, improve performance, enhance security, and improve manageability of database applications.

InfoSphere Optim pureQuery Runtime takes advantage of DB2-unique static SQL execution in both Java and .NET environments to help drive down costs and lock-in performance. InfoSphere Optim pureQuery Runtime for Linux, UNIX, Windows can further enhance any Java environment -- whether custom-written code, framework based, or packaged application -- by providing valuable insight into the application SQL to help improve impact analysis and problem isolation.

Program number

Program number	VRM	Program name
5724-x84	3.1.0	IBM InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

<http://www.ibm.com/services/learning/>

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Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

Publications

No hardcopy publications are shipped with this product.

The IBM Publications Center

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

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Technical information

Specified operating environment

Hardware requirements

Memory and disk requirements: The following table shows applicable recommended minimum memory and disk requirements. The actual requirements depend on the applications you intend to run. These requirements do not include any additional memory or disk requirements for other software that is running on your system. The numbers below are for reference only.

Product	Memory	Disk
IBM InfoSphere Optim pureQuery Runtime	128 MB	80 MB

Software requirements

InfoSphere Optim pureQuery Runtime supports the following application server operating systems:

- AIX® V5.3, V6.1, or V7.1
- HP-UX 11i v2, 11i v3
- Solaris SPARC 10 64-bit, 10 x86 64-bit
- Red Hat Enterprise Linux 5.0 AS/ES x86-32-bit (Desktop)
- Red Hat Enterprise Linux 5.0 AS/ES x86-64-bit (Desktop)
- Red Hat Enterprise Linux 5.0 AS/ES for IBM System z®
- Red Hat Enterprise Linux 5.0 AS/ES for IBM System p®
- Red Hat Linux 5.0 AS/ES x86-32-bit (Advanced Platform)
- Red Hat Linux 5.0 AS/ES x86-64-bit (Advanced Platform)
- Red Hat Enterprise Linux 5.0 AS/ES for IBM System z (Advanced Platform)
- Red Hat Enterprise Linux 5.0 AS/ES for IBM System p (Advanced Platform)
- Red Hat Enterprise Linux 6.0 AS/ES x86-32-bit (Desktop)
- Red Hat Enterprise Linux 6.0 AS/ES x86-64-bit (Desktop)
- Red Hat Enterprise Linux 6.0 AS/ES for IBM System z
- Red Hat Enterprise Linux 6.0 AS/ES for IBM System p
- Red Hat Linux 6.0 AS/ES x86-32-bit (Advanced Platform)
- Red Hat Linux 6.0 AS/ES x86-64-bit (Advanced Platform)
- SUSE Linux 9.0 Enterprise Server x86-32-bit
- SUSE Linux 9.0 Enterprise Server x86-64-bit

- SUSE Linux 10.0 Enterprise Server x86-32-bit
- SUSE Linux 10.0 Enterprise Server x86-64-bit
- SUSE Linux 10.0 Enterprise Server for IBM System z
- SUSE Linux 11.0 Enterprise Server x86-32-bit
- SUSE Linux 11.0 Enterprise Server x86-64-bit
- SUSE Linux 11.0 Enterprise Server for IBM System z
- Windows 7 Professional Edition 32-bit and 64-bit
- Windows 7 Enterprise Edition 32-bit and 64-bit
- Windows 7 Ultimate Edition 32-bit and 64-bit
- Windows XP 32-bit and 64-bit (SP2)
- Windows Vista Business Edition 32-bit and 64-bit
- Windows Vista Enterprise Edition 32-bit and 64-bit
- Windows Vista Ultimate Edition 32-bit and 64-bit
- Windows Server 2003 Enterprise 32-bit and 64-bit
- Windows Server 2003 Standard 32-bit and 64-bit
- Windows Server 2003 Data Center 32-bit and 64-bit
- Windows Server 2003 R2 Enterprise 32-bit and 64-bit
- Windows Server 2003 R2 Standard 32-bit and 64-bit
- Windows Server 2003 R2 Data Center 32-bit and 64-bit
- Windows Server 2008 Enterprise 32-bit and 64-bit
- Windows Server 2008 Standard 32-bit and 64-bit
- Windows Server 2008 Data Center 32-bit and 64-bit
- Windows Server 2008 R2 Enterprise 64-bit
- Windows Server 2008 R2 Standard 64-bit
- Windows Server 2008 R2 Data Center 64-bit

Other technical information

Data Studio pureQuery Runtime requires one of the following to be installed as a prerequisite for IBM data server support:

- IBM Data Server Driver for JDBC and SQLJ V3.57, or later (or corresponding DB2 Connect™ version level) for JDBC 3.0 applications and IBM Data Server Driver for JDBC and SQLJ V4.7, or later, for JDBC 4.0 applications.
- IBM Data Server Clients for ODBC, CLI, .NET V9.5.3, or later

IBM Optim pureQuery Runtime and Development Studio require the following Oracle JDBC Drivers for Oracle support:

- Oracle Database 11g Release 1 (11.1.0.7.0) JDBC Drivers
 - odbcj5.jar
 - odbcj6.jar
 - datadirect 4.0
- Oracle Database 10g Release 2 (10.2.0.4) JDBC Drivers
 - odbcj5.jar
 - datadirect 4.0

IBM Data Studio Developer and IBM Data Studio pureQuery Runtime support:

- DB2® for Linux, UNIX, and Windows V9.1, V9.5, V9.7 and V9.8
- DB2 for System i® V5R4, V6R1, and V7R1
- DB2 for z/OS® V8.1, or later

- Informix® Dynamic Server V11.10, V11.50, and V11.70
- Oracle 10g, 10gR2, 11g, and 11gR2

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

Customer responsibilities

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 (also referred to as 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.

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

Packaging

InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows

- IBM InfoSphere Optim pureQuery Runtime V3.1 - Multiplatform DVD
- Quick Start Guide

Security, auditability, and control

The products in this announcement use the security and auditability features of the host hardware or software.

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

Ordering information

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

Product information

Licensed function title	Product group	Product category
InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows	IBM Database 2	Data Studio
Program name	PID number	Charge unit description
InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows	5724-X84	Per Processor Value Unit for System z
InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows	5724-X84	Per Processor Value Unit

Charge metrics definitions

Processor Value Unit

Processor Value Unit (PVU) is a unit of measure by which the Program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU Table by Processor Value, Brand, Type and Model Number at http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html) and the number of processors made available to the Program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores

Licensee can deploy the Program using either Full Capacity licensing or Virtualization Capacity (Sub-Capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (see webpage below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the Program, except for those servers from which the Program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the Program, as defined according to the Virtualization Capacity License Counting Rules at http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

* An Activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Note: Some programs may require licenses for the Program AND what is being managed. In that case, the following applies: In addition to the entitlements required for the Program directly, Licensee must obtain PVU entitlements for this Program sufficient to cover the processor cores managed by the Program.

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Note: Express and Workgroup programs may be licensed with maximum use terms. In that case, the following applies: The maximum authorized use terms and conditions for PVU licensed IBM Express and Middleware Programs can be found in the IBM Express and Middleware Licensing Guide.

Passport Advantage program licenses

IBM IS Optim pureQuery RT Linux, UNIX, and Windows

Program name/description	Part number
IBM Data Studio pureQuery Runtime	
IS Optim pureQuery RT for LUW PVU Annual SW S&S Rnw1	E048YLL
IS Optim pureQuery RT for LUW PVU License & SW S&S 12 Mo	D61YKLL
IS Optim pureQuery RT for LUW PVU SW S&S Reinstate 12 Mo	D61YLLL

Passport Advantage supply

Program name/description	Part number
IS Optim pureQuery RT Linux, UNIX, and Windows V3.1.0	
IBM InfoSphere Optim pureQuery Runtime for LUW V3.1 Multiplatform ML MP	BB18SML

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.

IS Optim pureQuery Runtime Linux, UNIX, and Windows V3.1.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Optim pureQuery Runtime for LUW Processor Value Unit	IBM InfoSphere Optim pureQuery Runtime for LUW V3.1 Multiplatform ML MP	BB18SML
IBM Optim pureQuery Runtime for LUW Processor Value Unit for System z	IBM InfoSphere Optim pureQuery Runtime for LUW V3.1 Multiplatform ML MP	BB18SML

Cross-platform products

Cross-platform products for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement

IBM IS Optim pureQuery Runtime Linux, UNIX, and Windows

Program name/description	Part number
IBM Data Studio pureQuery Runtime	
IS Optim pureQuery RT for LUW PVU for Sys z Annual SW S&S Rnw1	E0571LL
IS Optim pureQuery RT for LUW PVU for Sys z License & SW S&S 12 Mo	D04QBLL
IS Optim pureQuery RT for LUW PVU for Sys z SW S&S Reinstate 12 Mo	D04QCLL

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

License Information form number

Program name	Program number	Form number
InfoSphere Optim pureQuery Runtime for Linux, UNIX, and Windows	5724-X84	L-DNAA-8JPSBB

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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No

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Prices

Passport Advantage

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