

IBM® Rational® PurifyPlus

Highlights

- ***Pinpoints hard-to-find bugs***
- ***Highlights performance bottlenecks***
- ***Identifies untested code***
- ***Instruments entire application or only selective modules***
- ***Supports Java, Visual C# .NET, Visual Basic .NET, Visual C/C++ 6, Visual Basic 6, and ANSI C/C++***
- ***Supports Windows, UNIX, Linux, and cross-platform environments***
- ***Works with or without source code on Windows and UNIX—no code recompilation needed***
- ***View analysis results directly within IBM WebSphere Studio, Eclipse, and Microsoft Visual Studio .NET.***
- ***Feature invocation integrated into menus of Visual Studio 6 and other leading IDEs***

IBM Rational PurifyPlus is a complete set of runtime analysis tools designed for improving application reliability and performance. PurifyPlus combines memory error and leak detection, application performance profiling, and code coverage analysis into a single, complete package. Together, these functions help developers ensure the highest reliability and performance of their software from its very first release.

Do more in your IDE

Developers using IBM® WebSphere™ Studio, Eclipse, or Microsoft® Visual Studio™ .NET can do more in their IDE with Rational PurifyPlus. PurifyPlus has its own menu in these environments, and analysis results appear in the IDE user interface. This allows you to easily analyze your code as it is being created—no more switching back and forth between different tools.

If you're developing with IBM Rational XDE®, you can do even more in your IDE. PurifyPlus is integrated directly into XDE Developer Plus, which also runs directly inside the same IDEs.

In addition to the standard PurifyPlus features, Rational XDE Developer Plus includes a visual trace feature that allows you to visually analyze and debug the execution of your applications.

Only IBM Rational makes visual development and runtime analysis an integral part of your IDE, allowing you to do more work right inside your development environment.

For developers using Microsoft Visual Studio 6 or other IDEs, Rational PurifyPlus can be invoked from those environments for stand-alone operation.

Develop solid code faster

Rational PurifyPlus allows you to instrument your entire application or only select portions of it. Selective instrumentation analyzes only the modules that you want to be under consideration. This provides greater flexibility for creating the test environment and makes the data collection part of runtime analysis much easier and more productive.

Many developers value runtime analysis but are concerned that the effort will slow down their development. Rational PurifyPlus doesn't get in your way. For Windows and UNIX developers, special instrumentation technology allows you to analyze your executables directly—no recompilation is necessary. For Linux and cross-platform environments, we instrument the source code transparently to the user. And we do all this for all of the major programming languages, eliminating any need to use multiple tools from different vendors.

Only Rational provides runtime analysis solutions across such a wide range of development platforms and languages. Rational PurifyPlus is your single solution for developing solid quality code faster.

Make developing on a team easier

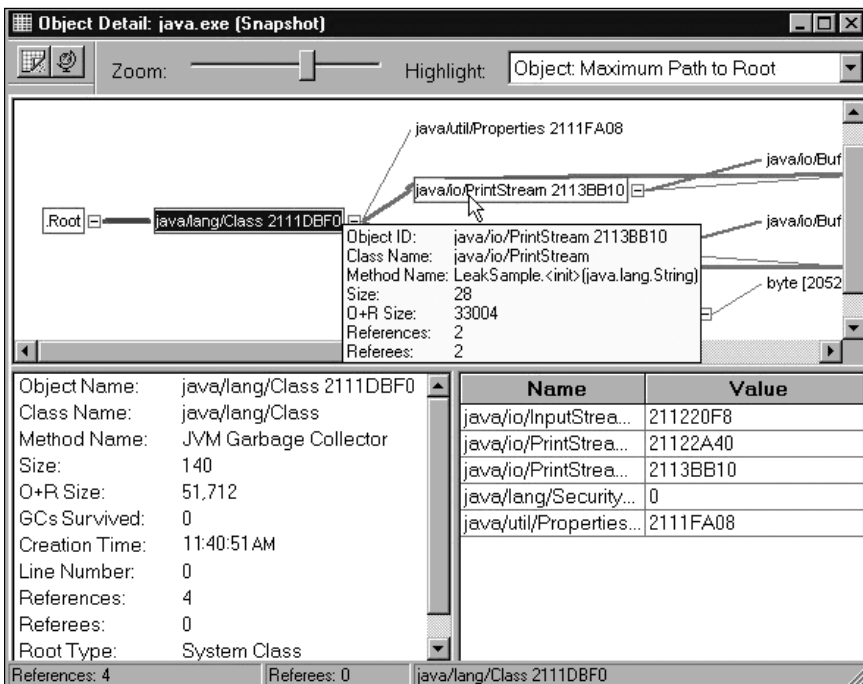
Rational PurifyPlus integrates with IBM Rational® ClearQuest® so that you can instantly create defect reports upon finding bugs in your code. These products are conveniently packaged with other lifecycle support tools in several editions of IBM Rational Suite®, giving you a single, integrated solution for all of your team development needs.

And so you'll never have to go it alone, the Rational Developer NetworkSM (RDN) serves as your online extended development community. The RDN provides white papers, discussion forums, and a wealth other technical resources made accessible through a special online customer website. It also provides convenient web-based training so that you need not leave your work environment. With the RDN, you'll never have to start a project from a blank slate.

Only Rational combines runtime analysis tools with integrated lifecycle support and an extended developer community. Rational makes working on a development team easier, helping you develop fast, reliable code.

For more information, please go to <http://www.rational.com/products/pqc> to learn more, view online demonstrations, and download/order a Solution CD that includes an evaluation version of PurifyPlus.

The PurifyPlus Object Reference Graph shows the objects that reference, and are referenced by, the current object.



Rational's solution for component testing and runtime analysis consists of the following products:

For Microsoft Windows:

Rational Purify for Windows

For Sun Solaris and HP-UX:

Rational PurifyPlus for UNIX

For Red Hat and SuSe Linux:

Rational PurifyPlus for Linux

For SGI IRIX:

Rational Purify for UNIX

For embedded systems and cross-platform development:

Rational PurifyPlus RealTime
Rational Test RealTime

For IBM AIX:

Rational PurifyPlus RealTime
Rational Test RealTime

Product Feature Matrix

	PurifyPlus for Windows	PurifyPlus for Unix	PurifyPlus for Linux	PurifyPlus RealTime	Test RealTime
Memory corruption detection	C/C++	C/C++	C/C++	N/A	N/A
Memory leak detection	Java, C/C++, .NET	C/C++	Java, C/C++	Java, C/C++	Java, C/C++
Performance profiling	Java, C/C++ .NET, VB6	Java, C/C++	Java, C/C++	Java, C/C++	Java, C/C++
Runtime tracing	N/A	N/A	Java, C/C++	Java, C/C++	Java, C/C++
Thread profiling***	Java,	N/A	Java, C/C++	Java, C/C++	Java, C/C++
Code coverage analysis	Java, C/C++ .NET, VB6	Java, C/C++	Java, C/C++	Java, C/C++, Ada	Java, C/C++, Ada
Component testing	N/A	N/A	N/A	N/A	Java, C/C++, Ada
System testing	N/A	N/A	N/A	N/A	C

**PurifyPlus for UNIX, Quantify for UNIX, and PureCoverage for UNIX support Java on Sun Solaris only*

***PurifyPlus for Linux detects a subset of memory corruption errors detected by Purify for Windows, Purify for UNIX, PurifyPlus for Windows and PurifyPlus for UNIX*

****The entire PurifyPlus Family of products supports multithreaded applications.
Thread profiling functionality refers to the ability to visualize running threads.*



SPECIFICATIONS

Supported Platforms

- *Windows NT 4.0 SP 6a*
- *Windows 2000 Professional*
- *Windows XP Professional*
- *Sun Solaris 2.6, 7, 8, 9*
- *HP-UX 10.2, 11.XX*
- *IBM AIX 4.3 and 5L (v5.1/v5.2)*
- *Red Hat Linux 7.0, 7.2, 7.3, 8.0*
- *SuSe Linux 7.2, 7.3, 8.1*

Java Development Environments

- *IBM WebSphere Studio 5.0*
- *Eclipse 2.0*
- *Java J2EE, J2SE, J2ME*
- *Sun JDK 1.2.2, 1.3, 1.4 or MSJVM 2828 (or higher)*

Java Web Servers

- *IBM WebSphere*
- *BEA WebLogic*
- *Apache Jakarta Tomcat*

Microsoft Development Environments

- *Microsoft Visual Studio .NET*
- *Microsoft Visual C# .NET*
- *Microsoft Visual Basic .NET*
- *Microsoft Visual Studio 6*
- *Microsoft Visual C/C++ 6*
- *Microsoft Visual Basic 6*

Sun Development Environments

- *Full 64 bit "wide-mode" support for memory error & leak detection and performance profiling on Solaris 7 and above; 32 bit support for code coverage analysis*
- *Compiler support through Sun ONE Studio 7 (Forte CC 5.4 compiler), and GCC through v3.1 (32-bit only)*

HP Development Environments

- *HP 9000 Series 700 and Series 800 workstations*
- *Languages: C, C++*
- *Full 64 bit "wide-mode" support on HP-UX 11.0 and 11i (11.11)*
- *Compiler support for HP aCC 3.31, 3.33 and 3.34; GNUPro 98r2; and GCC through v3.1*
- *Support for ld/dld ver. 11.30*

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