

# RED HAT DEVELOPER TOOLSET

TECHNOLOGY BRIEF



## BENEFITS

Compile once and deploy to multiple versions of Red Hat® Enterprise Linux® with GNU Compiler Collection (GCC).

Speed developer productivity with key development and performance analysis tools.

Gain flexibility and deploy to multiple versions of Red Hat Enterprise Linux with confidence.

Choose the best tools for your project with access to a parallel set of the latest stable tools including the GCC, Eclipse, and more.

Experience peace-of-mind with support from Red Hat.

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The right development tools let you take advantage of technology innovation in modern applications. Bridge development agility and production stability using the latest stable versions of essential development tools, delivered on a separate life cycle from Red Hat Enterprise Linux with a more frequent release cadence.

With Red Hat Developer Toolset, developers can take advantage of new functionality in the GNU Compiler Collection (GCC), Eclipse, and more as they build, test, and deploy applications.

Red Hat Developer Toolset is for developers on the Red Hat Enterprise Linux platform. It is a set of development and performance analysis tools that can be installed and used on multiple versions of Red Hat Enterprise Linux. Executables built with the Red Hat Developer Toolset toolchain can be deployed and run on multiple versions of Red Hat Enterprise Linux.

Available through the Red Hat Enterprise Linux Developer Program and related subscriptions, Red Hat Developer Toolset allows C, C++, and Fortran developers to compile and deploy to multiple versions of Red Hat Enterprise Linux. It also delivers the latest stable tools so that developers can create, diagnose, and debug applications in development even more quickly than before.

When installed, Red Hat Developer Toolset augments the default system tools included with Red Hat Enterprise Linux 6 or 7, providing a parallel set of newer tools for developers to use.

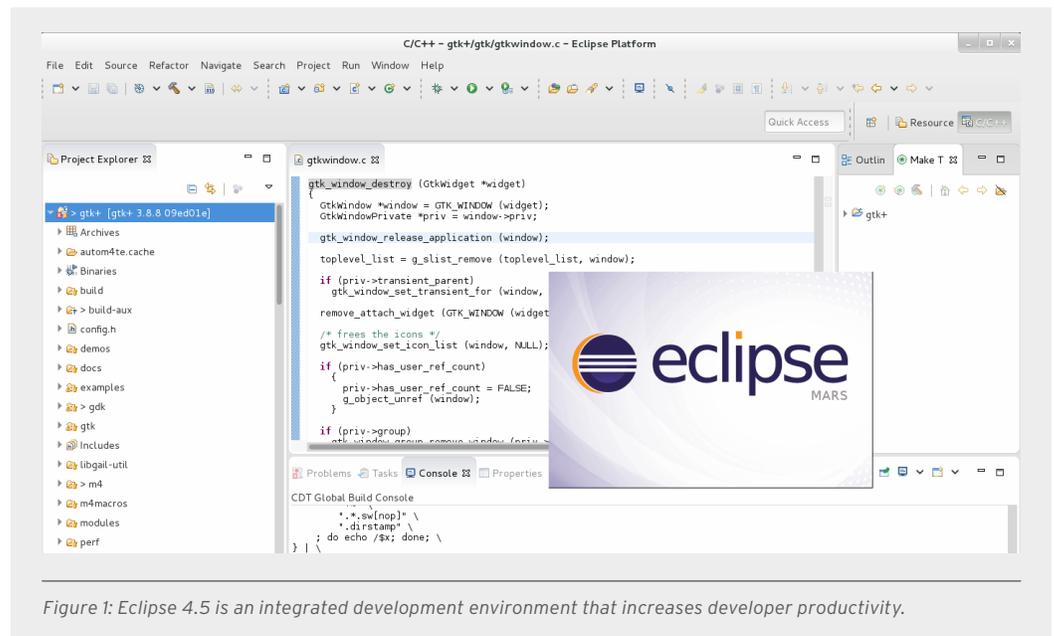
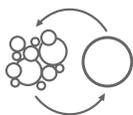


Figure 1: Eclipse 4.5 is an integrated development environment that increases developer productivity.



**ABOUT RED HAT  
ENTERPRISE LINUX  
DEVELOPER PROGRAM**

The Red Hat Enterprise Linux Developer Program bridges development agility and production stability by delivering the latest stable developer tools, instructional resources, and access to an ecosystem of experts to help you develop great Linux applications faster at.

**SPEED DEVELOPER PRODUCTIVITY**

Red Hat Developer Toolset improves developer productivity by letting C, C++, and Fortran developers compile once and deploy to multiple versions of Red Hat Enterprise Linux. Red Hat Developer Toolset also allows developers to create, diagnose, and debug applications more quickly in development, and can help them analyze application performance to isolate memory errors and management issues.

**GAIN THE FLEXIBILITY TO DEPLOY WITH CONFIDENCE**

Developers can create applications that run on multiple supported versions of Red Hat Enterprise Linux without needing to be rebuilt. This lets developers preserve application compatibility while deploying to newer versions of Red Hat Enterprise Linux. Resulting applications can be deployed natively on Red Hat Enterprise Linux or on OpenShift by Red Hat. Red Hat Enterprise Linux Developer Program and related subscriptions also offer support for Red Hat Developer Toolset, which generates applications designed for production use.

**CHOOSE THE TOOLS BEST SUITED FOR YOUR PROJECT**

Red Hat Developer Toolset delivers a parallel set of the latest stable tools that complements the Red Hat Enterprise Linux default toolchain. By building their workflow on Red Hat Developer Toolset, developers can use newer versions of GCC, Eclipse, Dyninst, and more – without needing to install and troubleshoot unsupported community versions.

**FEATURES AND CAPABILITIES**

NAME	VERSION	DESCRIPTION
Eclipse	4.5	An integrated development environment (IDE) for application development..
GCC	5.2	A portable compiler suite with support for C, C++, and Fortran.
binutils	2.25	A collection of binary tools and other utilities to inspect and manipulate object files and binaries.
elfutils	0.163	A collection of binary tools and other utilities to inspect and manipulate ELF files.
dwz	0.12	A tool to compress DWARF debugging information contained in ELF shared libraries and ELF executables.
GDB	7.10	A command-line debugger for programs written in C, C++, and Fortran.
strace	4.10	A debugging tool to monitor program system calls and messages.
memstomp	0.1.5	A debugging tool to identify library function calls where overlapping memory regions might result in undefined behavior.
SystemTap	2.8	A tracing and probing tool to monitor the activities of the entire system without having to instrument, recompile, install, and reboot.



### ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

NAME	VERSION	DESCRIPTION
Valgrind	3.10.1	An instrumentation framework and tools that profile applications to detect memory issues and report improper arguments in system calls.
OProfile	1.1.0	A system-wide profiler that uses the processor's performance monitoring hardware to retrieve information about the kernel and executables on the system.
Dyninst	8.2.1	A library for instrumenting and working with user-space executables during their execution.
Itrace	0.7.91	A developer tool to intercept and record dynamic library calls and system calls.

### EXPERIENCE PEACE-OF-MIND WITH SUPPORT FROM RED HAT

Red Hat Developer Toolset is functionally complete, and the applications generated by it are intended for production use. Red Hat Developer Toolset is available for use with Red Hat Enterprise Linux 6 or Red Hat Enterprise Linux 7. It is included with Red Hat Enterprise Linux Developer Subscriptions and most other Red Hat Enterprise Linux subscriptions.

### NEXT STEPS

Contact a Red Hat sales representative or visit [developers.redhat.com](http://developers.redhat.com) to get started with Red Hat Developer Toolset today.

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