

# RED HAT DEVELOPER TOOLSET

TECHNOLOGY BRIEF



## BENEFITS

Compile once and deploy to multiple versions of Red Hat Enterprise Linux with 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 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. Gain development agility and production stability using the latest stable versions of essential development tools, delivered on a separate life cycle 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 once and deploy to multiple versions of Red Hat Enterprise Linux. Red Hat Developer Toolset also delivers the latest stable tools faster to help developers more quickly create, diagnose, and debug applications in development.

When installed, Red Hat Developer Toolset does not replace the default system tools included with Red Hat Enterprise Linux 6 or 7. Instead, a parallel set of newer tools is provided for optional use by developers. The default compiler and debugger, for example, remain those in the base Red Hat Enterprise Linux system.

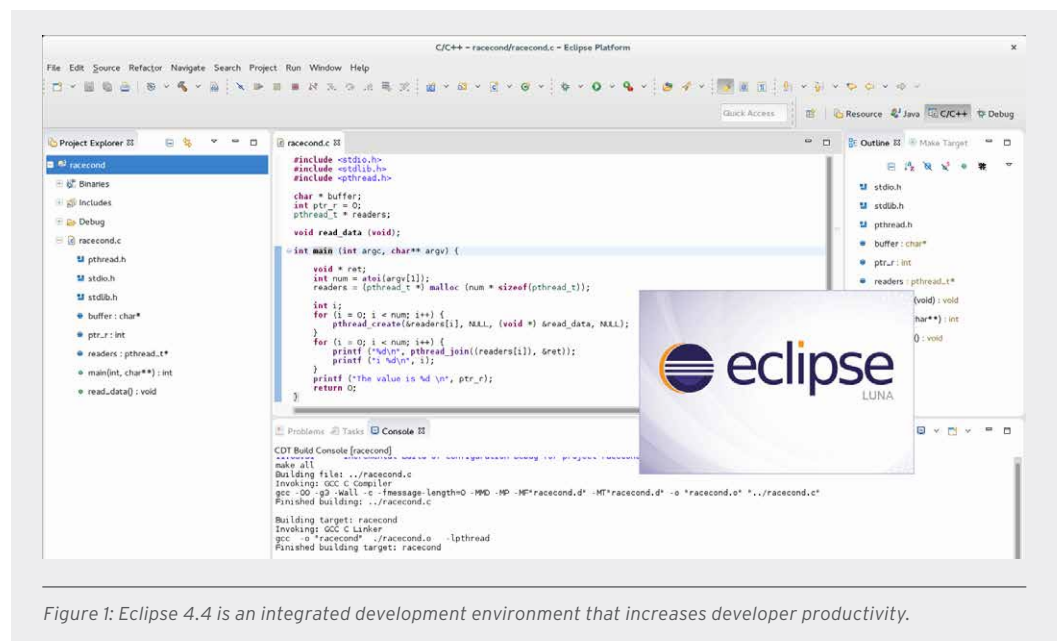
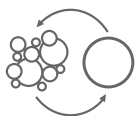


Figure 1: Eclipse 4.4 is an integrated development environment that increases developer productivity.



### 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.

## 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 includes tooling to help developers more quickly create, diagnose, and debug applications in development and can help analyze application performance to isolate memory errors and management issues.

## GAIN FLEXIBILITY TO DEPLOY WITH CONFIDENCE

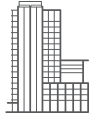
Developers can create applications that run on multiple supported versions of Red Hat Enterprise Linux without needing to be rebuilt. This means developers can confidently preserve application compatibility while deploying to newer supported versions of Red Hat Enterprise Linux. Resulting applications can be natively deployed on Red Hat Enterprise Linux or on OpenShift by Red Hat. Red Hat Enterprise Linux Developer Program and related subscriptions offer developer support for Red Hat Developer Toolset, and the applications generated by it are intended 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 default toolchain provided with Red Hat Enterprise Linux. By building their workflow on Red Hat Developer Toolset, developers can use newer versions of GCC, Eclipse, Dyninst, and more—without dedicating cycles to installing and troubleshooting unsupported community versions.

### FEATURES AND CAPABILITIES

NAME	VERSION	DESCRIPTION
Eclipse	4.4.2	An integrated development environment for application development.
GCC	4.9.2	A portable compiler suite with support for C, C++, and Fortran.
binutils	2.24	A collection of binary tools and other utilities to inspect and manipulate object files and binaries.
elfutils	0.161	A collection of binary tools and other utilities to inspect and manipulate ELF files.
dwz	0.11	A tool to optimize DWARF debugging information contained in ELF shared libraries and ELF executables for size.
GDB	7.8.2	A command-line debugger for programs written in C, C++, and Fortran.
strace	4.8	A debugging tool to monitor system calls that a program uses and signals it receives.
memstomp	0.1.5	A debugging tool to identify calls to library functions with overlapping memory regions that result in undefined behavior according to various standards.



### ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies.

Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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NAME	VERSION	DESCRIPTION
SystemTap	2.6	A tracing and probing tool to monitor the activities of the entire system without the need to instrument, recompile, install, and reboot.
Valgrind	3.10.1	An instrumentation framework and a number of tools to profile applications in order to detect memory errors, identify memory management problems, and report any use of improper arguments in system calls.
OProfile	0.9.9	A system-wide profiler that uses the performance monitoring hardware on the processor 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.
ltrace	0.7.91	A developer tool that can intercept and record both 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 to get started with Red Hat Developer Toolset.