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### Wolfram Mathematica 10.4.1



Mathematica is the world's ultimate application for computations and the only development platform fully integrating computation into complete workflows, moving you seamlessly from initial ideas all the way to deployed individual or enterprise solutions.

Mathematica 10.4.1 addresses several critical issues identified in recent releases.

- Provides workaround for a bug in Mac OS X 10.11.4 that could prevent Mathematica from being launched under default Gatekeeper policies
- Resolves OpenGL issues that were causing graphics instability and failures, especially with regard to Graphics3D and Manipulate rendering, rotation, and dynamics
- Addresses activation problems for Linux users who may have experienced difficulties

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### Qt 5.6



Qt is a cross-platform complete development framework with tools designed to streamline the creation of stunning native applications and amazing user interfaces for desktop, embedded and mobile platforms

Qt 5.6 is the first Long-Term Support (LTS) release for the Qt 5 series. In preparation for the LTS, we spent time on giving extra attention to the quality & stability of all Qt APIs. So now is the perfect time to make the move to Qt 5, if you haven't already.

Release highlights:

- Full windows 10 & OS X 10.11 support added
- Support for cross-platform High-DPI scalable UIs
- Qt Virtual Keyboard now supports hand-writing recognition & traditional Chinese
- Better conformity with Yocto Project – improved Yocto meta-layer
- Embedded Linux development now possible through Windows host machine

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### Ranorex 5.4.6



Ranorex products are unique Software Test Automation Tools, this Tool does not use the conventional scripting language of its own. Instead uses standard programming languages such as C# and VB.NET as a base, because of this unique feature Ranorex can be easy-to-use by Testers for Test Planning, Execution, Reporting and Developers can also use for Software Development Code Analysis, Bug fixing, Unit Testing and Continuous Integration.

- Added support for iOS 9.3
- Added support for instrumenting iOS Swift apps
- Added support for QQuickWidget and QGraphicsWebView Qt controls

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### Testplant :- eggPlant Functional v16



TestPlant is an international software business based in London and having development centers in the USA and UK with sales and support centers in USA, UK, Germany and China as well.

Ideally suited to DevOps and Agile development environments, and for companies undertaking digital transformation projects, **eggPlant Functional** helps companies test their applications better, faster, and with less effort by automating the execution of functional testing. eggPlant Functional uses a patented, image-based approach to testing, which allows it to interact with any device (including mobile, tablet, desktop, server, and the Internet of Things) in the same way a user does – by looking at the screen.

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### Squish GUI Tester 6.0.2



Squish is the leading cross-platform/cross-technology GUI test automation tool for functional GUI regression tests. Many companies in all kinds of industries all over the world use Squish to drastically cut down the time spent on GUI testing software releases while increasing the quality of their applications.

Squish is the leading cross-platform/cross-technology GUI test automation tool for functional GUI regression tests. Many companies in all kinds of industries all over the world use Squish to drastically cut down the time spent on GUI testing software releases while increasing the quality of their applications.

This version includes various fixes for issues found in last Squish 6.0.1 release. The IDE, the script bindings, result reporting as well as the UI toolkit support have been improved in all of the editions.

Here are a few of the changes and new features:

- Fixed a problem in the Application Objects view when returning from picking an object
- Update the Summary view more often so that stepping through code the changes in the view are visible
- Fixed a problem causing additional windows (editor windows for example) to disappear when running a test
- Fixed a problem with picking when using a launcher-like AUT
- Improve Open Symbolic Name to work from globally shared script files

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### **Squish Coco 3.3.3**



Squish Coco code coverage utilizes source code instrumentation to analyze the applications' source code. No changes to the source code are necessary. Executing a test suite against an instrumented application produces data that can later be analyzed.

A complete C, C++, C# and Tcl code coverage tool chain for Windows, Linux, Mac OS X, and Embedded Systems.

- Tool Selector New Feature: Generation of compiler wrappers for CygWin and MinGW's compilers.
- cmreport New Feature: Splitting long lists over several pages in the HTML report.
- Microsoft® Visual Studio® Add-In Bug Fix: Installation issue on Microsoft® Visual Studio® 2005 fixed.

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### **Rogue Wave :- IMSL C Numerical Library**



Rogue Wave tools span 40 years, offering everything from cloud-based-services to native platform applications to portable software libraries. But they all have a common, singular purpose: Making it easy to write, test, and run complex code.

There are several enhancements and new functions including:

- More functions that work with streaming data
- More functions that work with big data or distributed data
- Decision Trees
- Apriori for Association Rule Discovery
- Support Vector Machines
- Kohonen Self Organizing Maps
- Vector Auto-Regression
- Vector Error Correction Model
- Enhanced parallelization of the solution of sparse linear systems using OpenMP
- Support of CUDA 5.5

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### **Portland Group [PGI]**



PGI Unified Binary technology simplifies cross-platform support by combining into a single executable file, code sequences optimized for multi-core x64 processor families from Intel and AMD and GPU accelerators from NVIDIA. The PGI Unified Binary delivers all the benefits of a single x64 platform while enabling you to leverage the latest hardware innovations.

Comprehensive support of C++14, requires GCC version 5.0 or greater; full interoperability with GCC 5.1. Further optimizations of scalar/vector single precision pow, exp, log, and atan intrinsic functions for Intel Haswell processors. All new PGPROF can profile CPU code or CPU+GPU code; both graphical and command-line modes.

The current PGI 2016 release versions are:

- PGI Workstation™ and PGI Server™ for Linux 16.3
- PGI CDK® for Linux 16.3
- PGI Workstation and PGI Server for Windows 16.3
- PGI Visual Fortran for Windows 16.3
- PGI Workstation for OS X 16.3

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### **Intel Parallel Studio XE 2016**



Among its software development tools, Intel offers industry-leading C++ and Fortran compilers with optimization features and multithreading capabilities, highly optimized performance libraries, and error-checking, security, and profiling tools, allowing developers to maximize application performance, security, and reliability.

There are four things to highlight are

- Intel® Data Analytics Acceleration Library
- Vectorization Advisor
- MPI Performance Snapshot
- High performance support for industry standards, the latest processors, operating systems and their related development environments.

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