

# Wolfram Research Releases gridMathematica 2 and Parallel,Computing Toolkit 2

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Wolfram Research, developer of the renowned Mathematica technical computing software, announces the release of both Parallel Computing Toolkit 2 and gridMathematica 2, an optimized parallel Mathematica environment for multiprocessor machines, clusters, grids, and supercomputers.

Parallel Computing Toolkit 2 is a versatile parallel computing solution for anyone with access to more than one processor. Compatible with Mathematica 5.1 and also a major component of gridMathematica 2, this Mathematica application package enables you to tackle large-scale problems and build platform-independent parallel programs with your existing Mathematica installation.

Major new features and enhancements in Parallel Computing Toolkit 2 include:

- \* Improved configuration of remote Mathematica kernels
- \* Additional automatic parallelization
- \* Better load balancing based on relative processor speeds and communication latencies
- \* Programmable scheduling for easy problem-specific optimization
- \* Enhanced support for tracing and debugging
- \* Support for speculative parallelization
- \* Seamless execution on scalar and parallel setup

gridMathematica 2 provides all of these enhancements as well as universal database connectivity, web services support, high-speed binary I/O, industrial-strength string manipulation, and full optimization for all 64-bit architectures.

gridMathematica lets you easily develop powerful parallel applications on a PC and deploy them seamlessly on any grid or supercomputer. It is perfectly suited for numerical supercomputing applications as well as parallel processing of

sci.math.symbolic: Wolfram Research Releases gridMathematica 2 and Parallel,Computing Toolkit 2

complex non-numeric data such as images, 2D and 3D vector graphics, geospatial information, genomic sequences, algebraic formulas, logical and program constructs, and general symbolic data.

Both Parallel Computing Toolkit 2 and gridMathematica 2 are available for all common Linux and Unix systems, Windows, and Mac OS X. More product details can be found at <http://www.wolfram.com/products>