Intel® Thread Checker 3.1
for Windows*

Product Brief

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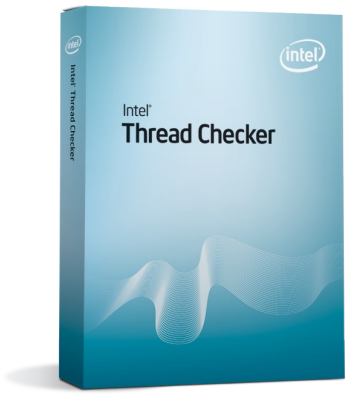


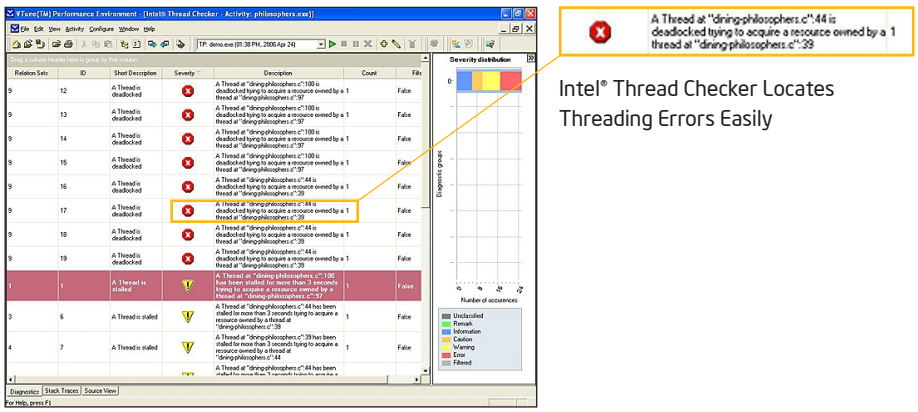
Create Threads Faster

With Intel® Thread Checker 3.1 for Windows*, confidently develop multi-thread applications faster and with less effort to get the performance advantage from Intel® multicore processors.

Features

Patented advanced error detection engine:

- Detects hidden potential errors, mapping them to the source-code line, call stack, and memory reference
- Displays warnings for effective diagnosis, highlighting the most potentially severe errors
- Tracks the error down to the specific variable in your source code using source instrumentation
- Mitigates the risk of adding threads and enables hands-on learning about threading principles
- Finds latent threading defects by allowing you to drill down to the source code line or memory address of the error

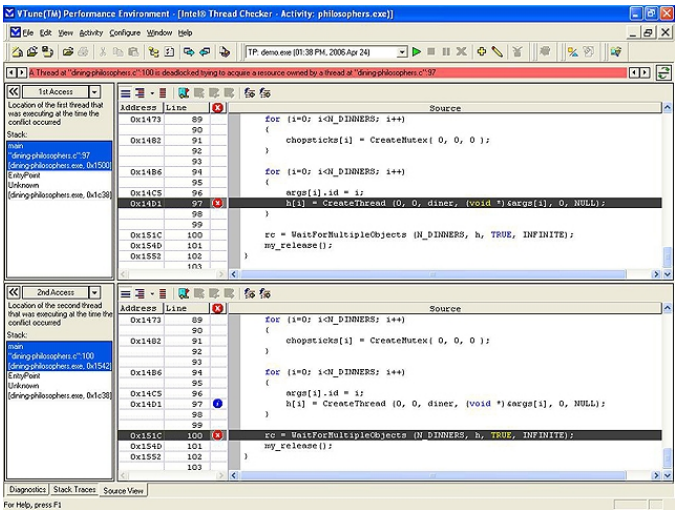


Intel® Thread Checker Locates Threading Errors Easily

Performance

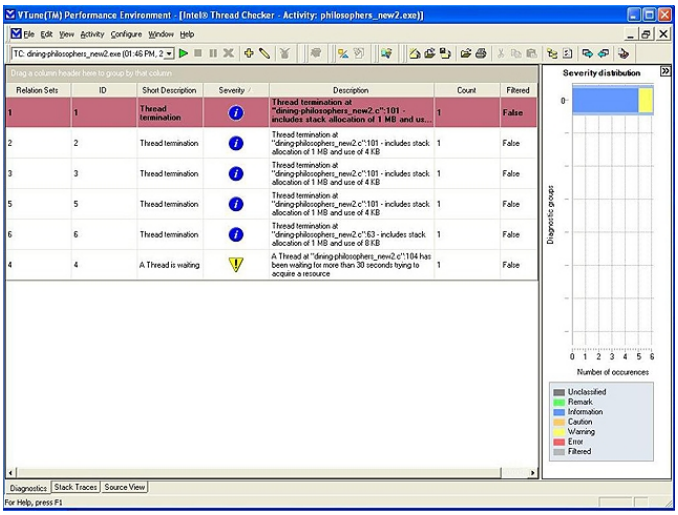
Intel Thread Checker 3.1 for Windows is instrumental at every phase of the application development cycle.

- **Works on standard debug builds** and does not require your application to be recompiled.
- **Calibration run** recommends which modules to instrument based on usage, decreasing instrumentation time.
- **Drill down to the source code** by double clicking on an error message to see exactly where contention occurs.



Drill Down to Source Code

- **Patented OpenMP* analysis** enables rapid prototyping by determining the impact that threading will have at specific points in your application.
- **Rerunning Intel® Thread Checker** as changes to the code are implemented allows you to track warnings and informative comments.



Rerunning Locates Further Threading Errors

Compatibility

Intel Thread Checker 3.1 for Windows is compatible with today's industry-standard development tools:

- Microsoft Windows Vista*: 32-bit and 64 bit applications
- Microsoft Visual Studio* .NET development environment
- Microsoft Visual C++* .NET Compiler 2005, 2003, 2002 Editions or Visual C++ 6.0
- Intel® Fortran and C++ Compilers
- Windows threads and POSIX* threads
- Support for OpenMP*
- Supports latest multicore processors including Intel® Core™2 and Intel® Core™2 Quad

System Requirements

Please refer to www.intel.com/software/products/tcwin for details on hardware and software requirements.

Support

Every purchase of an Intel® Software Development Product includes a year of support services, which provides access to Intel® Premier Support and all product updates during that time. Intel Premier Support gives you online access to technical notes, application notes, and documentation.

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Intel Software Development Products can help you easily create the fastest software possible by offering a full suite of tools that include:

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- Intel® VTune™ Performance Analyzers
- Intel® Performance Libraries
- Intel® Threading Analysis Tools
- Intel® Cluster Tools

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Case Study

CPU Cycle-Hungry Digital Artists Turn to Intel® Thread Checker

The Company:

Autodesk

The Challenge:

Debug and optimize the newly threaded Maya* software product within a tight release schedule.

The Answer:

Intel® Thread Checker was used to quickly track down several subtle threading problems. With a project deadline looming, the alternative of manually debugging the large and complex Maya application was unappealing and perhaps impossible.

The Autodesk and Intel team worked to thread Maya Fluid Effects, a compute intensive tool.

The Result:

The threaded and performance enhanced code was finished in time for inclusion in the product release.

Learn more about this case study at: http://intel.com/cd/ids/developer/asmo-na/eng/dc/enterprise/245595.htm

Download a trial version today.
http://www.intel.com/software/products/tcwin

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