



Workshop:

Using OpenMP 3.0 for Parallel Programming on Multicore Systems

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June 17-18, 2009

Queen's University, Kingston

The OpenMP API supports multi-platform shared-memory parallel programming in C/C++ and Fortran. OpenMP is a portable, scalable model with a simple and flexible interface for developing parallel applications on platforms from desktop to supercomputer.

In May 2008, OpenMP Version 3.0 was finalized, including the new tasking concept as the major new feature. Tasking considerably increases OpenMP's applicability to a wider class of applications. Furthermore, the support for nested parallelization was substantially enhanced.

This 1.5 day workshop will start with a basic, but comprehensive, introduction into OpenMP on Wednesday afternoon.

The Thursday morning session will focus on performance aspects of OpenMP programming. Case studies to demonstrate the various aspects of performance tuning with OpenMP will be presented.

Thursday afternoon, the new OpenMP 3.0 features are covered in more detail. A short lab session will give an opportunity to explore some basic OpenMP features, but also to try out some of the new OpenMP features with the latest Sun Studio express compilers.