Students: Parallel Programming Contest – REALLY Great Prizes

By James Reinders on September 17, 2015

We are running a parallel programming contest for students with BIG prizes (read the exact rules for eligibility, etc.) through October 29, 2015.Â The winners will have optimized the brain-simulation code we supply to registrants, and will be announced on November 15, 2015 at the IntelÂ® HPC Developer Conference. Qualified students should register now – and get started working on optimizing the code! *(Employees of Intel, Newcastle and Colfax and their families are not eligible – check the rules for the official details!)*

We have partnered with CERN to sponsor the IntelÂ® Modern Code Developer Challenge. Our goal is to give an emerging generation of developers the opportunity to use modern programming methods to improve code that helps move science forward.

The prizes are incredible – the top seven most-optimized submissions compete for the Grand Prize of an internship (~9 weeks long) at CERN openlab (very rare and wonderful opportunity – located near Geneva, Switzerland), three trips to CERN openlab including a tour of CERN, and three trips to the SC16 Conference.

The challenge for the competing students is to improve the performance of brain-simulation code developed by researchers working at Newcastle University in the UK, and which is currently being worked on through a CERN openlab project. This code lets researchers explore the mechanisms of brain tissue development to help identify causes and potential treatments for neurodevelopmental diseases such as epilepsy, autism, and schizophrenia. More information on the neuroscientific aspects tcan be found at www.greenbrainproject.org or www.dynamic-connectome.org. During the Challenge, contestants will have the opportunity to actually test their optimizations on remotely accessed IntelÂ® XeonÂ® processor and IntelÂ® Xeon Phiâ„¢ coprocessor-based clusters thanks to our friends at Colfax International.

Interested students should review the rules, check their eligibility and register for the Challenge at https://moderncodechallenge.intel.com.Â These materials are part of our outreach and educational efforts for modern code.

There is no cost to register – and the sooner you start, the more time you have to work on optimizing the code.

Intel Modern Code Developer Challenge

About James Reinders

I encourage more use of parallel programming throughout the industry. I've had the good fortune to contribute to many amazing projects including the world's first TeraFLOP/s supercomputer (ASCI Red) and the world's first TeraFLOP/s microprocessor (IntelÂ® Xeon Phiâ„¢ coprocessor). I've authored and editted a few technical books, including: Intel Threading Building Blocks (O'Reilly, 2007), Structured Parallel Programming (Morgan Kaufmann, 2012), IntelÂ® Xeon Phiâ„¢ Coprocessor High Performance Programming (Morgan Kaufmann, 2013), Multithreading for Visual Effects (CRC Press, 2014), High Performance Parallelism Pearls Volume One (Morgan Kaufmann, 2014) and High Performance Parallelism Pearls

Volume Two (Morgan Kaufmann, 2015) .
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