



Student Parallel Programming Challenge 2015 Supported by Intel and NVIDIA

CALL FOR PARTICIPATION

The 22nd annual IEEE International Conference on High Performance Computing (HiPC 2015) will be held at the Park Plaza Bengaluru Hotel in Bengaluru (Bangalore), India from Wednesday, December 16th through Saturday, December 19th. HiPC 2015 will host the first parallel programming challenge for students in India and abroad. The event will be geared towards students and will provide an introduction to parallel programming concepts and implementations. The purpose of this challenge is to highlight the value of code parallelism, parallel algorithms, and the role of right mathematics in solving real-world problems

COMPETITION RULES

- ◆ Students groups consisting of 1 to 3 members must register as a team before the registration deadline.
- ◆ Each member must be a registered full time student.
- ◆ The submission should strictly adhere to the input/output format specified in the challenge problem.
- ◆ A set of approved frameworks will be provided along with the challenge problem. Any submissions that do not follow the given guidelines will be disqualified.
- ◆ All submissions **must be team's own work**. Plagiarism will be dealt with utmost seriousness and will have serious consequences. We will follow the IEEE rules that apply to papers including adding authors to IEEE Prohibited Authors List Database. The decisions of track and program chairs in any such case will be final. All submissions will be vetted for plagiarism. Submissions which are found to be plagiarized will be rejected.
- ◆ **Functional correctness** of the result is a **must** to be considered for further evaluation.
- ◆ **Submission Scoring/Ranking**: All submissions will be ranked based on the summation of best runtimes of all datasets.

COMPETITION TRACKS

- ◆ The contest will have two parallel and independent tracks. First track will be for Intel Xeon Phi based nodes and second track will consists of nodes with a NVidia GPU.
- ◆ Student teams can submit to one or both tracks but the submissions will be evaluated independently and there will be no cross track comparison.

MENTORSHIP PROGRAM

A team of experts in high performance computing and parallel programming will be available to the students to guide them through the process of building scalable, robust parallel solutions. All questions should be posted in a public forum visible to all the participating teams and no private conversations will be allowed. All teams should adhere to the forum guidelines and failure to do so might lead to disqualification.

PRIZES

The top three teams will be invited to the HiPC 2015 conference in Bengaluru, India where they will have the opportunity to present their approach and solutions. In addition, these teams will be presented with prizes at the HiPC conference.

For further details, visit the conference website at <http://www.hipc.org/> or contact progchallenge@hipc.org

IMPORTANT DATES

	Intel Xeon Phi Cluster	NVIDIA GPU Track
Challenge problem released and Team Registration opens.	> Sep 14th	Sep 21st
Final Registration deadline for teams.	> Sep 27th	Sep 27th
Team given access to cluster for self-evaluation. Mentor forum opens.	> Sep 28th	Oct 5th
Final Submission Deadline.	> Oct 11th	Oct 18th
Final Notifications.	> Oct 31st	Oct 31st

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