



Need for Speed

Veloce Emulation Competition
Sponsored by Mentor Graphics

What is it?

Need for Speed is a competition to recognize outstanding student projects that use Mentor Veloce emulation hardware to realize speed improvements in simulation and modeling. The first place prize is \$5,000. Second place is \$3,000 and third place is \$1,000.

Who is eligible?

Teams of between one and four PSU students (undergraduate, graduate, or post-bac) are eligible.

What kinds of projects are suitable?

The project must use the Mentor Veloce emulator to accelerate an application to achieve speedup over conventional simulation or other alternatives. Projects might include the design and verification of hardware, acceleration of parallel algorithms, or the simulation of complex phenomena. Projects can use existing designs (e.g. developed for other courses or projects, OpenCore projects, etc).

How do I/we enter?

Teams are encouraged to send an email to tom.schubert@pdx.edu indicating their intent to participate before the end of Spring Finals Week. Written proposals are not required, but proposals (500-1000 words) received before June 30, 2017 will receive beneficial feedback from Mentor Graphics experts.

How are projects judged?

A preliminary project report (including a written report, code, and all scripts necessary to reproduce results) must be submitted by September 8th, 2017. A group of finalists will be chosen by the judges and notified by September 15th. Finalists then have prepare final reports and short presentation (20 minutes) for the final round of judging on October 6th.

Criteria for selection include:

- Degree of difficulty
- Innovation
- Report
- Applicability
- Final Presentation (for finalists)

Where can I learn more?

Visit the website www.ece.pdx.edu/~schubert/NeedForSpeed or email tom.schubert@pdx.edu (subject: Need For Speed competition)

Timetable

The 2016 contest dates are:

- Proposal Deadline: June 30th
- Submission Deadline: September 8th
- First Round Result: September 15th
- Finalist Presentations: October 6th
- Final Winners Announced: October 6th