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Floating Point Programming - Lecture 4

Tuesday, June 17, 2014 11:45 AM (1 hour)

We start by asked ourselves why we need to bother about this topic at all. Hopefully, having convinced ourselves, we then discuss the IEEE-754 standard which is used in all modern microprocessors. We discuss several techniques for keeping floating-point calculations accurate. Math functions, such as exponentials and power functions, are also invoked, since they can be costly in performance and also have a large impact of the accuracy of floating-point calculations.

Presenter: Mr JARP, Sverre (CERN)

Session Classification: Efficient Computing