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## Floating Point Programming - Lecture 4

*Tuesday, 17 June 2014 11:45 (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