

Panel Discussion

Future of MapReduce for Scientific Computing

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Abstract

It is our great pleasure to welcome you to the Second International Workshop on MapReduce and its Applications– MAPREDUCE’11 and join the panel discussion “Future of MapReduce for Scientific Computing”.

Since its introduction in 2004 by Google, MapReduce has become the programming model of choice for processing large data sets. MapReduce borrows from functional programming, where a programmer can define both a Map task that maps a data set into another data set, and a Reduce task that combines intermediate outputs into a final result. Although MapReduce was originally developed for use by web enterprises in large data-centers, this technique has gained a lot of attention from the scientific community for its applicability in large parallel data analysis (including geographic, high energy physics, genomics, etc..). In this context, the panel composed of prominent researchers in the field, will share their experience and discuss with the audience their view of the future of MapReduce as a new paradigm for data-intense scientific computing.

Categories & Subject Descriptors:

I.6.5 [SIMULATION AND MODELING]: Model Development – *Modeling Methodologies*

General Terms:

Algorithms

Keywords:

MapReduce, Parallelism, Distributed computing

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