

Programming Models in the Exascale Era

Frontiers in Computational and Information Sciences
Seminar Series

Presented by...

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Abstract Researchers around the world have begun to consider the requirements and implications of future exascale systems. It is assumed today that such platforms will be introduced around 2018 - 2020, and that they will be large clusters with very powerful compute nodes. One of the most urgent open questions is how these systems will be programmed. Will MPI continue to dominate at this level? If so, how will the application developers achieve high performance within each compute node? If not, what will the programming model be? And how will existing applications be migrated to this new kind of platform?

In this presentation, Professor Chapman will discuss the exascale landscape and some ideas on the programming models that might be provided on such platforms. The talk will include considerations for what changes will be needed in the execution environment in order to support efficient application deployment.

More info:

<http://www2.cs.uh.edu/~chapman/>

Thursday, Dec. 15

BSF Darwin Room

9:30 – 10:30 am