

Extreme Computing Through Innovations in Execution Models

Frontiers in Computational and Information Sciences
Seminar Series

Presented by...

Thomas Sterling

- Louisiana State University
 - Arnaud and Edwards Professor of Computer Science
 - Adjunct Professor of Electrical & Computer Engineering
 - System Science and Engineering Focus Area head of the Center for Computation and Technology
- Oak Ridge National Laboratory Distinguished Visiting Scientist
- Sandia National Laboratories CSRI Fellow



Abstract Professor Sterling will talk about how dramatic changes in high performance computing system architectures are forcing new methods of use including programming and system management. His presentation will discuss the driving trends and issues facing these new phases in HPC and will discuss the ParalleX execution model that is serving as a pathfinding framework for exploring an innovative synthesis of semantic constructs and mechanism that may serve as a foundation for computational systems and techniques in the exascale era. The talk will use a kernel application code for numerical relativity via adaptive mesh refinement to demonstrate the effectiveness of the ParalleX model through the use of the HPX runtime software system library.

More info?

<http://www.cct.lsu.edu/~tron/Welcome.html>

<http://www.cct.lsu.edu/home>

May 10, 2011

EMSL Auditorium

9:00 – 10:00 am