

Panel: Challenges Using Heterogeneous Systems

SOS14

March 8 - 11, 2010

Savannah, GA

Panel Participants

- Ken Koch, Los Alamos National Laboratory
 - *Technical lead and architect for Roadrunner*
- Jeremy Meredith, Oak Ridge National Laboratory
 - *Future Technologies Group*
- Ronald Luijten, IBM Zurich Research
 - *Manager of the IBM server research team in Zurich*
- Steven Parker, NVIDIA
 - *Director of HPC & Computational Graphics*

Panel Charter

- Challenges Using Heterogeneous Systems
 - *What are the challenges?*
 - *What makes it hard?*
 - *How can system designers and programmers make it easier?)*

Outline

- Introductory talk by each panelist
 - *Ken Koch*
 - *Jeremy Meredith*
 - *Ronald Luijten*
 - *Steven Parker*
- 15 minutes of audience driven panel discussion

Possible Questions

- What makes it hard? Is it really that hard? How can we make it easier?
- Is it human aversion? Is it lack of experience or training?
- Is it the lack of a standard programming model?
- Is it the dearth of languages, compiler tools, software development environments and runtimes?
- How much of it is hardware limitations or specializations?