



Sponsored by IEEE Computer Society
Technical Committee on Parallel Processing

Workshop on Next Generation Software

Tuesday, April 22, 2003

Nice, France

Held in conjunction with IPDPS 2003

Agenda for the NGS Workshop

8:30-9:30

- *Introduction: The NGS Program*, Frederica Darema
- *Continuous Compilation: A New Approach to Aggressive and Adaptive Code Transformation*, Bruce Childers, Jack Davidson, Mary Lou Soffa

9:30-10:00 – break

10:00- 12:00

- *ECO: an Empirical-based Compilation and Optimization System*, Nastaran Baradaran, Jacqueline Chame, Chun Chen, Pedro Diniz, Mary Hall, Yoon-Ju Lee, Bing Liu, Robert Lucas
- *FORGE: A Framework for Optimization of Distributed Embedded Systems Software*; Radu Cornea¹, Nikil Dutt, Rajesh Gupta, Ingolf Krueger, Alex Nicolau, Doug Schmidt, Sandeep Shukla
- *Self-Adapting, Self-Optimizing Runtime Management of Grid Applications using PRAGMA* H. Zhu and M. Parashar, J. Yang, Y. Zhang, S. Rao and S. Hariri
- *Programming Models and System Software for Future High-End Computing Systems: Work-in-Progress*, Guang Gao

12:00-1:30-lunch

1:30- 3:30

- *Coarse Grained Pipelined Parallelism: What, Why, and How*, Wei Du and Gagan Agrawal
- *The CoGenT Project: Co-generating Compilers and Simulators for Dynamically Compiled Languages*, Eliot Moss and Charles Weems,
- *Applying Aspect-Orient Programming Concepts to a Component-based Programming Model*, Jack Dongarra,
- *A Case Study of Optimistic Computing on the Grid: Parallel Mesh Generation*, Nikos Chrisochoides?

3:30-4:00 – break

4:00-6:00

- *An Approach to Optimizing Adaptive Parabolic PDE Solvers for the Grid*, Vikram Adve, James Browne, Brian Ensink, Patricia Teller, Mary Vernon, and Stephen Wright.
- *Towards a Pervasive Grid*, Anupam Joshi
- *Optimizing Performance and Reliability in Distributed Computing Systems Through Wide Spectrum Storage Services*, James S. Plank
- *Espresso and Chips: Creating a Next Generation Microarray Experiment Management System*, Allan Sioson, Jonathan I. Watkinson, Cecilia Vasquez-Robinet, Margaret Ellis, Maulik Shukla, Deept Kumar, Naren Ramakrishnan, Lenwood S. Heath, Ruth Grene, Boris I. Chevone, Karen Kafadar, and Layne T. Watson