Panel Discussion:
The High End Computing Revitalization Task Force

November 21, 2003

SC2003

Phoenix, AZ

High End Computing Revitalization Task Force (HECRTF) Panel

8:30am	Introduction	Dave Nelson
8:35am	Task Force Study	John Grosh / Alan Laub
8:55am	CRA Workshop	Dan Reed
9:15am	Aeronautical Applications	Doug Ball
9:35am	Discussion	All

Speakers

- **David Nelson (moderator), Director, National Coordination Office for Information Technology R&D, Executive Office of the President**

- **John Grosh, Associate Director for Advanced Computing, Office of the Deputy Under Secretary of Defense for Science and Technology, co-chair of HECRTF**

- **Alan Laub, SciDAC Director, DOE Office of Science, co-chair of HECRTF**

- **Dan Reed, NCSA Director and Professor, University of Illinois at Urbana-Champaign, chair of CRA workshop**

- **Doug Ball, Manager, Enabling Technology and Research, Boeing Company**

What is the High-End Computing Revitalization Task Force (HECRTF)?

- **Inter-agency planning group**
  - Develop 5-year plan/roadmap to improve how the Federal government develops, purchases, and provisions HEC
  - Participants include DoD (DARPA, ODUSD (S&T), HPC Modernization Program, NSA), DOE (NNSA and Science), EPA, NASA, NIH, NIST, NOAA, NSF, OMB, OSTP, NCO (approx. 60 people)
  - Focus on advancing agency/end-user needs in HEC
- **Established by OSTP, under the auspices of the National Science and Technology Council, in March 2003**
  - Charge to Task Force available at www.nitrd.gov
- **Commissioned CRA Workshop held June, 2003**
- **Plan now in final concurrence before public release**

<u>OMB Analytical Perspectives, Budget of the United States Government, FY2004, Page 177:</u> "… Due to its impact on a wide range of federal agency missions ranging from national security and defense to basic science, high end computing—or **supercomputing** — capability is becoming **increasingly critical**. Through the course of 2003, agencies involved in developing or using high end computing will be engaged in planning activities to guide future investments in this area, coordinated through the NSTC. The activities will include the development of an **<u>interagency R&D roadmap for high-end computing core technologies</u>**, a **<u>federal high-end computing capacity and accessibility improvement plan</u>**, and a discussion of issues (along with recommendations where applicable) relating to federal **<u>procurement</u>** of high-end computing systems. The knowledge gained from this process will be used to guide future investments in this area. Research and software to support high end computing will provide a foundation for future federal R&D by improving the effectiveness of core technologies on which next-generation high-end computing systems will rely."

The panelists will address the following questions:

- **What are the purposes, plans, schedule, and results to date of the Federal government's High End Computing Revitalization Task Force (HECRTF)?**

- **What input to the HECRTF was provided by academia and industry in white papers solicited by the HECRTF in the spring of 2003 and at the June 2003 Workshop on the Road Map for the Revitalization of High End Computing?**

- **What is the current status of the Federal government's plans to revitalize high end computing in the U.S.?**

- **What are the views of academia and industry about HECRTF efforts?**

- **Government employee (including IPA) for detail to National Coordination Office, or contractor hire, to support High End Computing Coordination Group**

- **Also seeking staff support in software development, high-confidence systems, and information management research**

- **If interested, call or write the NCO**
  - 703-292-4873
  - nco@nitrd.gov