

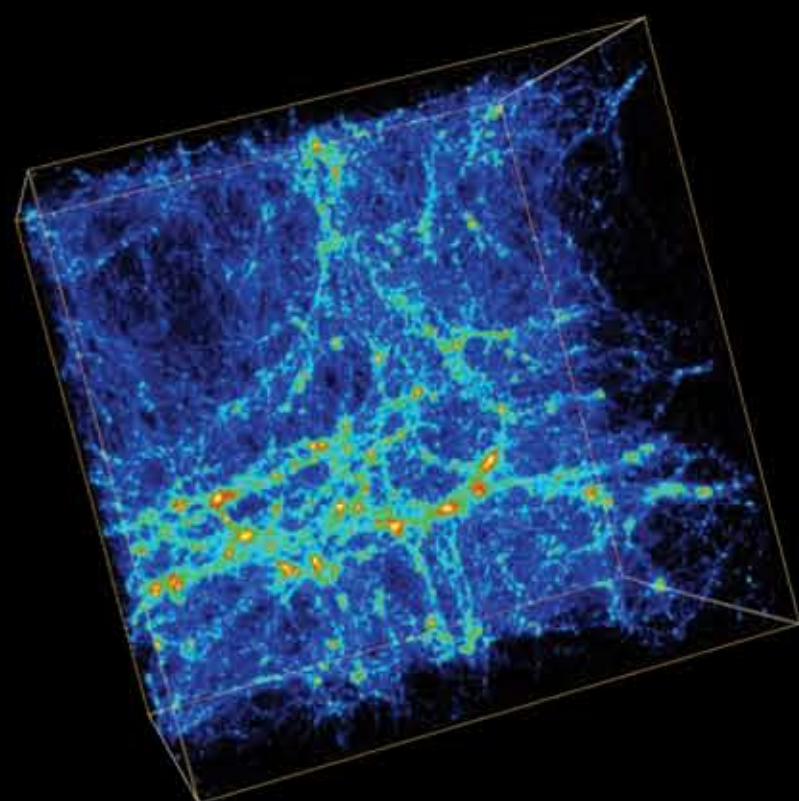
20 Years - Unleashing the Power of HPC

SC2003

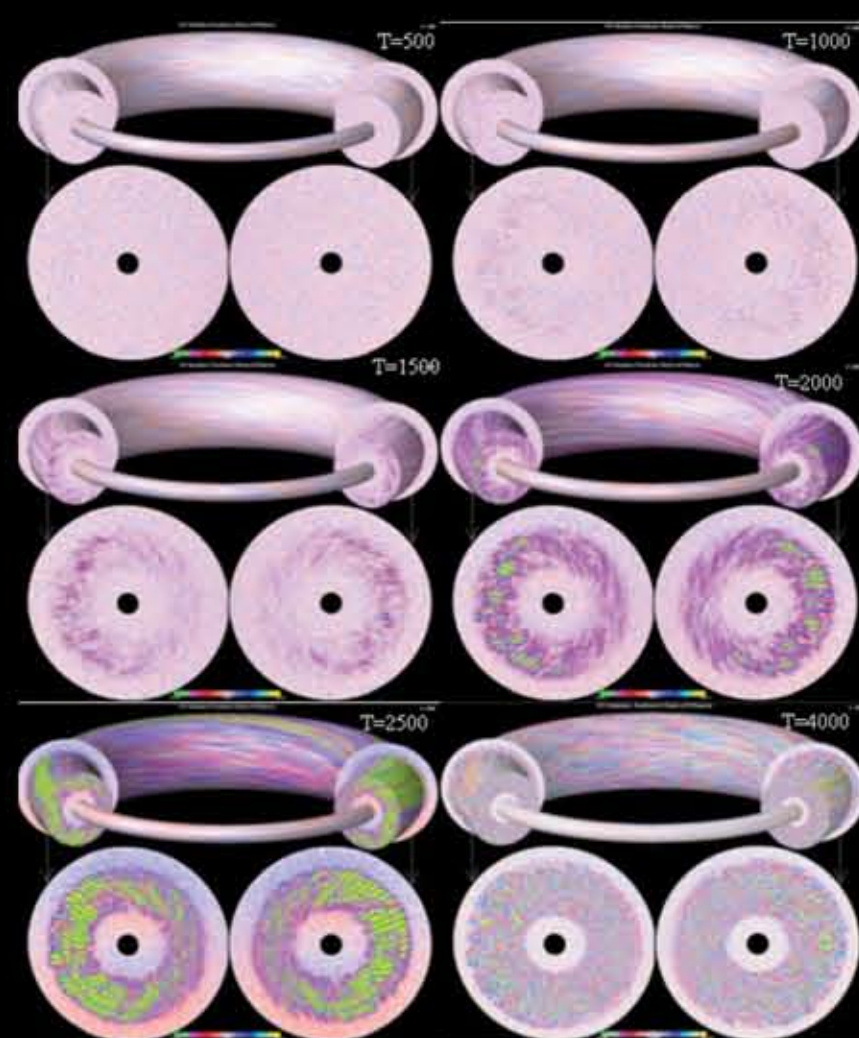
2003 Chair
James McGraw
 Phoenix, AZ



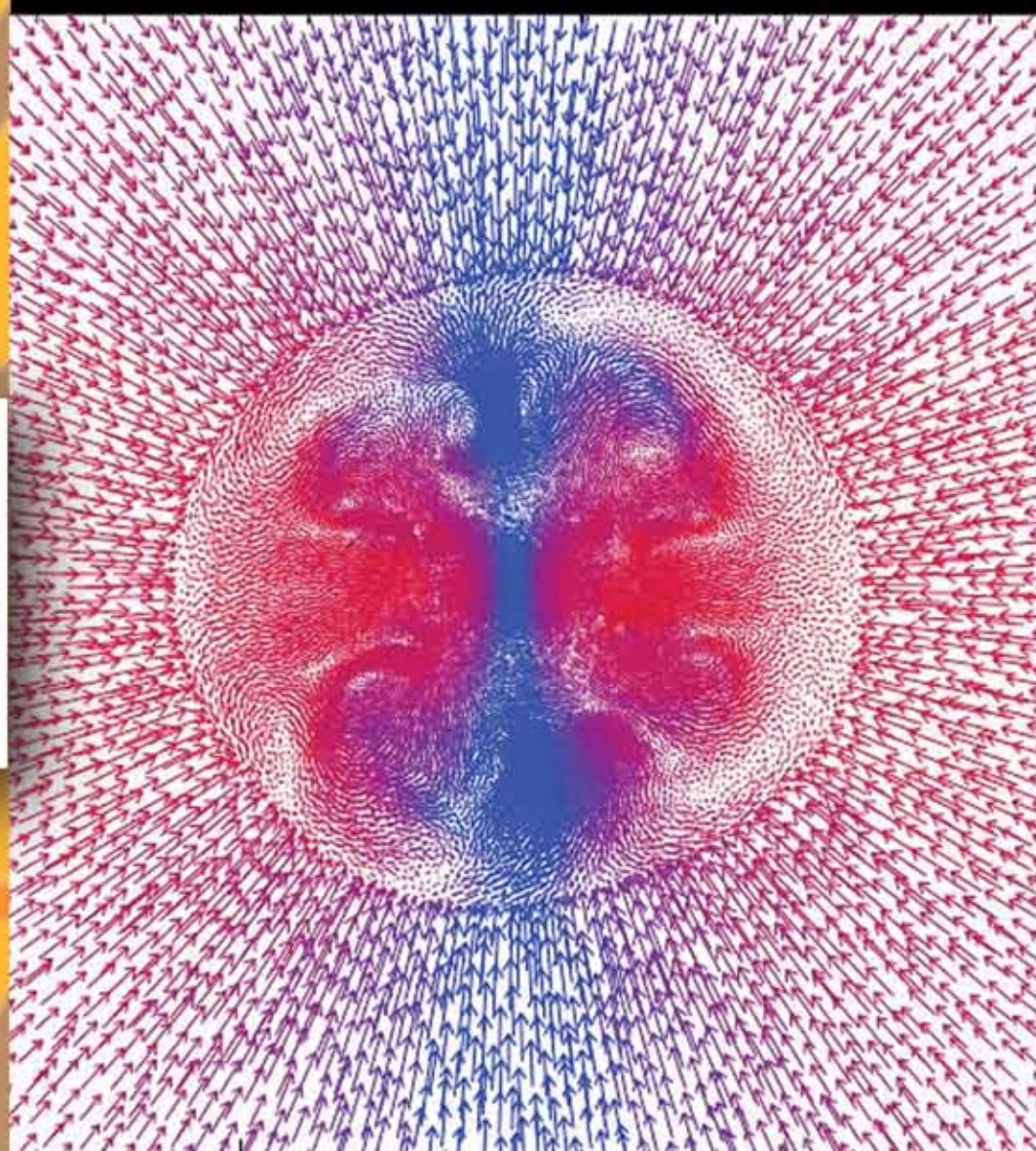
IGNITING INNOVATION



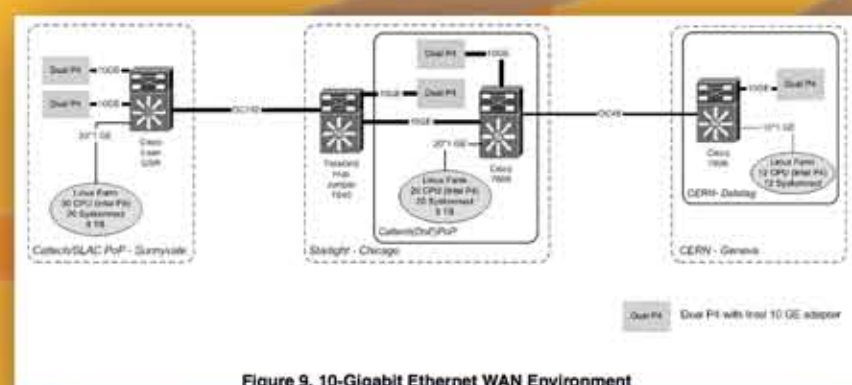
Visualization of simulation of evolution of the universe



Visualization of a tokamak simulation



Visualization of rotating collapsing neutron star simulation



2003

Notable Systems first mentioned this year in the proceedings:

- Cray X-1
- ASCI Q
- Cray MTA-2
- NEC SX-7

Notable Processors:

- Intel Itanium II

Not mentioned in the proceedings after this year:

- HP Superdome

Noteworthy Architecture Topics:

- Dynamically generated FPGA communications units
- Fault tolerance in communications and storage in large systems
- Deleterious effect of OS actions in large system performance
- Grid I/O and file system performance

Notable Operating Systems:

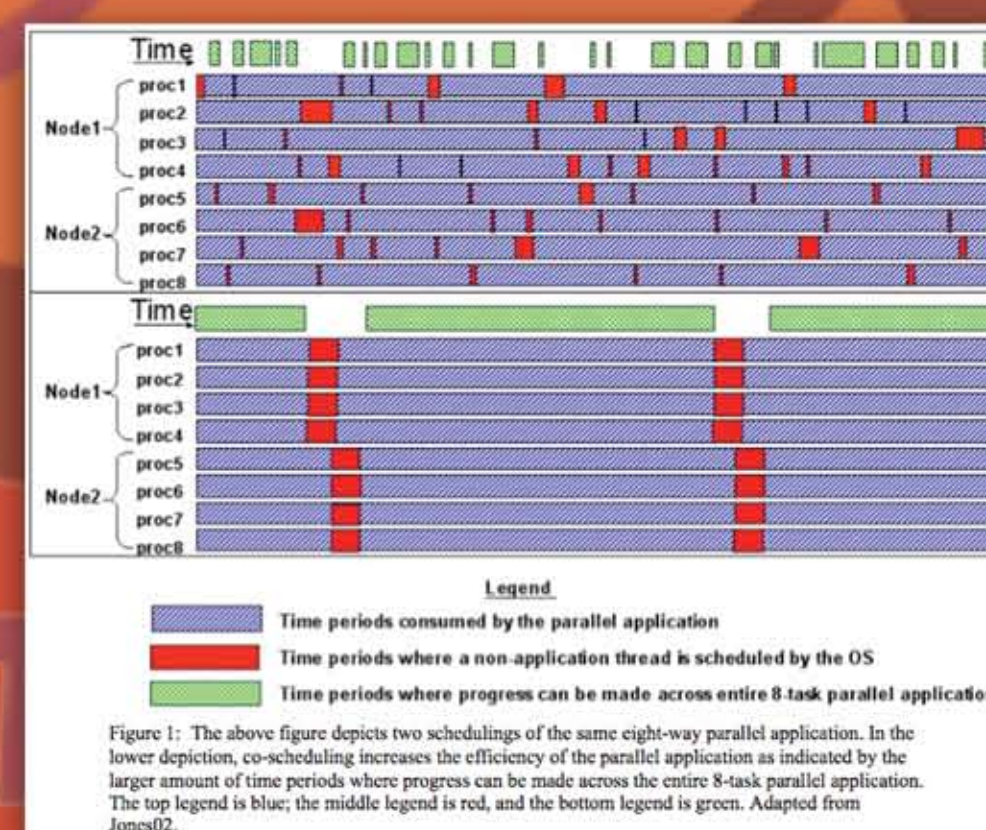
- Microsoft Windows Server 2003

Notable Programming Languages:

- MATLAB

Research Machines:

- Space Simulator
- MDGRAPE-3



Effects of interference by the OS with parallel execution