CEMM Meeting
Aransas Room, 3rd Level
Omni Hotel, Corpus Christi, TX
2:00 – 6:00 Sunday
April 27, 2003

Agenda

Jardin:	News on meetings, reviews, new initiatives, etc
DOE Person:	Washington News

Kruger:	m=1 mode in CDX-U/NIMROD
Breslau:	m=1 mode in CDX-U/M3D
Fu:	Energetic Particles Test Problem
Parker/Kim:	Energetic Particles in NIMROD/Progress

Samtaney:	Initial Results from AMR Pellet injection study

Park:	Beta Effects on Current Hole
NIMROD:	Big Splash Studies

-break-

Held:	Neoclassical closures
Sovinec:	High order elements and scaling studies
Kruger:	Free Boundary Calculations
Strauss:	Free Boundary Calculations/M3D
Sugiyama:	2-Fluid Physics Calculations
Glasser:	Progress on Spectral Element Code
M3D:	Scaling Studies

All	Planning: summer meeting, New Test Problems

NOTE: Presentations should be 12-15 min each

CEMM Calendar 2003

Jan 13:   US/Japan Computational Roundtable
                   Opportunities with Japanese Colleagues on ES

Jan 27:   ORNL TCF Meeting (Lee Berry)
                   Sovinec, Chen presented scaling results

Feb 10:   SIAM Meeting: San Diego
                   Schnack, Jardin waved CEMM flag

Mar 10-11:   SCIDAC PI Meeting: Napa
                   CEMM chosen for oral presentation
                   See www.nersc.gov/conferencess/SciDAC2003

April 27:   **CEMM Meeting at Sherwood**

May 8-9:   US ITER Forum/Maryland
                   Talk: US Opportunities for Integrated Modeling of ITER

May 21:   Deadline for APS Invited Talks

June 5-6:   Fusion SciDAC PAC Meeting/PPPL

June 24-25:   DOE Workshop on Ultrascale Computing in DC
                   Breakout sessions aimed at writing a report

July 7-11:   EPS Meeting:
                   Paper: Nonlinear Plasma Simulation Studies

July 15-17:   ITPA Meeting on MHD/Disruptions
                   Paper: Progress in Simulation and Modeling

Sept 7-10:   18th Int. Conf. on Num. Sim. of Plasma-Cape Cod
                   One-page abstracts due May 16/final due July 25

Computer Time Opportunities:

Earth Simulator:
- Opportunities for applying for time for benchmarking studies
- Needs to be a joint US/Japan Project
- Must be physically present at ES to run jobs

NERSC:
- Large Scale Jobs Reimbursement Program -64 nodes/1024 p
- 4 million MPP Hours set aside
- Big Splash and EXCITE Programs
- Request to contribute code performance numbers to Application Matrix: http://www.apsmatrix.info

ORNL-IBM:
- 600000 hours already allocated to CEMM—more available

ORNL-CRAY X1:
- Now at ORNL---NIMROD and M3D to be early users

PPPL FCC:
- 128 cpu (AMD Athlon 2000+) 1GB memory/processor, Gigabit networking available to CEMM members. Batch mode processing. Need PPPL UNIX account
- see http://w3.pppl.gov/petrel/Batch.html

Other:
- Interest in Benchmarking on ORIGIN 3000?
- Very low latency…1 μsec vs 10