July 5-11, 2009

CCT Hosts SC09 Workshop on Parallel Programming and Cluster Computing

CCT has partnered with the Supercomputing Conference's 2009 education program to host a summer workshop at the University this week.

The SC 09 education program instructors host such workshops at various campuses around the country every year in advance of the annual Supercomputing Conference, which will take place this year Nov. 14-20 in Portland, Oregon. The workshops are an essential part of the Supercomputing Conference's national efforts supporting faculty integration of parallelism and computational science into undergraduate curricula across the disciplines.

In these summer workshops, SC instructors teach undergraduate faculty, K-12 instructors, and graduate or undergraduate students about various areas of supercomputing and cyberinfrastructure, and give them ideas for including this technology in their curricula and education programs.

The workshop at CCT introduces undergraduate faculty to parallel programming & cluster computing. The workshop instructors will focus mostly on distributed parallelism (MPI), and will also discuss shared memory parallelism (OpenMP), instruction level parallelism, Graphics Processing Unit parallelism and hybrid shared/distributed parallelism. Depending on their interest, participants can learn about developing, debugging, profiling and tuning parallel applications across a variety of computing architectures, using tools from a variety of sources, including GNU, Intel, TotalView, and the Bootable Cluster CD.

Thirty participants from various colleges and universities have traveled to LSU to attend the workshop, which will take place through Saturday, July 11. Kathy Traxler and Karen Jones wrote the proposal that was accepted to have this workshop conducted through CCT.

This is the second year CCT has hosted an SC summer workshop. The SC 08 education program hosted an "Integrating Computational Science Into the Undergraduate Curriculum" at LSU June 8-14, 2008.

For more information, please visit http://www.cct.lsu.edu/SC09Educate.

Please Note:

- Future ALL CCT meetings for summer and the Fall 2009 semester will take place July 15, Aug. 26 (special presentation by LSU Intellectual Property at this meeting), Sept. 23, Oct. 21, Nov. 11 and Dec. 16. All meetings are at 3 p.m. in Johnston 338 unless otherwise announced. Please make every effort to attend these important meetings. If you have news or information you would like presented at these meetings, please e-mail Karen Jones at kjones@cct.lsu.edu.

- SIGGRAPH 2009 will take place in New Orleans Aug. 3-7. CCT will represent the University with a booth at this conference to highlight ongoing research in digital media. For more information on the conference, visit http://www.siggraph.org/s2009.

- IEEE Cluster 2009 will take place Aug. 31-Sept. 4 in New Orleans. Daniel S. Katz is general chair, and Thomas Sterling is program chair for Cluster 2009. More information about the conference is at http://www.cluster2009.org.

  Please note the following deadlines for this conference:

  Poster notification: July 24
  Poster camera-ready deadline: July 31
  Paper camera-ready deadline: July 31

- **Call for Student Participation in Cluster 2009:** The conference has received an award from the National Science Foundation to support student participation by covering advance student registration fees and providing $200 per student toward lodging for up to 75 students. Students will be selected generally on a first-come, first-served basis, with some preference given for student authors of papers or posters. Students who wish to participate in Cluster 2009 can seek approval for this support by sending a single email to d.katz@ieee.org, with the subject "Cluster 2009 Student Support," and provide contact information and information about any authorship of material being submitted to the conference. Students also must attach a letter from their advisor/professor explaining how this program will advance the student's career. For more information on Cluster 2009, please visit http://www.cluster2009.org.

- Deadlines open for SC09, Nov. 14-20 in Portland, Oregon:

  POSTERS/DOCTORAL SHOWCASE/BOFs/CHALLENGE
  Due: Monday, July 27, 2009
  Notification: Monday, August 17, 2009
  SHOWCASE/BOFs/CHALLENGE
  Due: Monday, July 27, 2009
  Notification: Monday, August 17, 2009

DISRUPTIVE TECHNOLOGIES
Due: Monday, July 27, 2009
Notification: Monday, August 17, 200
STUDENT VOLUNTEERS/BROADER ENGAGEMENT
Applications Due: Monday, August 3, 2009
Notification: Monday, September 7, 2009

- Registration is now open for the Supercomputing 2009 Education Program at the conference in Portland, which will take place Nov. 14-17. The Education Program helps educators and students learn more about computational science topics and gives educators ideas to bring these topics into their classrooms. The program is open to undergraduate faculty, undergraduate and graduate students, and high school teachers. To register or for more information, please visit http://computationalscience.org/sc09.

- If you have any news for the CCT Weekly, please e-mail PR Manager Kristen Sunde directly at ksunde@cct.lsu.edu.

Upcoming Grant Deadlines:

Note: Please see the CCT deadline Web site, as many NSF deadlines are listed here:
http://www.cct.lsu.edu/about/grants/deadlines/events.php

- Faculty Early Career Development (CAREER) Program
July 22 2009 10:00 am
At Most $ 400,000.00
Full Proposal Deadlines by Discipline: July 21, 2009 - BIO, CISE, EHR July 22, 2009 - ENG July 23, 2009
http://www.nsf.gov/pubs/2008/nsf08557/nsf08557.htm

- Information and Intelligent Systems (IIS): Core Programs
August 30 2009 10:00 am
At Most $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09557/nsf09557.htm?govDel=USNSF_25

- Computing and Communication Foundations (CCF): Core Programs
August 30 2009 10:00 am
At Most $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09555/nsf09555.htm?govDel=USNSF_25

- CISE Cross-Cutting Programs: FY 2010
August 30 2009 10:00 am
At Least $ 3,000,000.00 available
http://www.nsf.gov/pubs/2009/nsf09558/nsf09558.htm?govDel=USNSF_25