ICL NEWSLETTER

MARCH 2010

ICL Celebrating 20 Years

2009 marked the 20th year of the Innovative Computing Laboratory. During that span, ICL has employed nearly 250 students and staff. To recognize the group and its outstanding accomplishments over the years, we are planning a workshop to reunite past and present members of the group. The agenda is as follows:

Thursday, March 25, Welcome Reception, 6pm
Friday, March 26, Technical Program with invited talks, 9am - 5pm
Friday, March 26, Dinner Program, 6pm - 9pm
Saturday, March 27, Casual Brunch, 11am

Please **contact Tracy Rafferty** if you have any questions. We look forward to seeing you soon!
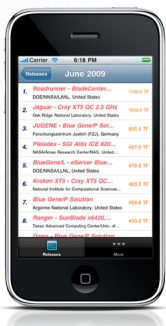
G8 Research Councils Backing IESP Effort

Plans for Exascale computing recently got a boost via support by the G8. Banking on the open source software model being unsustainabile, the G8 has committed more than $13 million toward funding **Exascale software development**.

PLASMA Podcast

As hosts of Research and Computing Engineering's podcast show, Cisco's Jeff Squyres and Brock Palen from the University of Michigan's Center for Advanced Computing recently interviewed Jack and Jakub about the PLASMA project. To listen to the podcast, visit the **RCE website** or **download the mp3**.

TOP500 iPhone App

Want to see the Top500 lists while on the go? A new TOP500 iPhone application is now available either from your iPhone or the iTunes Application store. Visit the **TOP500 App on the iTunes App Store**.

RECENT PAPERS

Ltaief, H., Kurzak, J., Dongarra, J., Badia, R. **Scheduling Two-sided Transformations using Tile Algorithms on Multicore Architectures**, *Journal of Scientific Computing* (accepted), Vol. 18, No. 1, 2010. **PDF**

Tomov, S., Nath, R., Ltaief, H., Dongarra, J. **Dense Linear Algebra Solvers for Multicore with GPU Accelerators** In the *Proceedings of IPDPS 2010: 24th IEEE International Parallel and Distributed Processing Symposium, Atlanta, GA, April 2010. UT-CS-09-649, February 18, 2010.* **PDF**

Terpstra, D., Jagode, H., You, H., Dongarra, J. **Collecting Performance Data with PAPI-C**, *Proceedings of the 3rd Parallel Tools Workshop* (to appear), Dresden, Germany, Springer Verlag, 2010. **PDF**

RECENT CONFERENCES

FEB 24 - 26 Seattle, WA
SIAM Conference on Parallel Processing and Scientific Computing (PP10) / Jack, Jakub, & Stan

UPCOMING CONFERENCES

MAR 8 - 10 San Jose, CA
MPI Forum / George, Thomas

MAR 8 - 11 Pittsburgh, PA
LCI Conference on High Performance Cluster Computing / Dave

MAR 25 Knoxville, TN
ICL 20th Anniversary Workshop

RECENT LUNCH TALKS

JAN 29 John Drake from CSM/ORNL
Climate Mitigation: How much climate change can be avoided? PDF

FEB 5 Anthony
The Road to Architecture Aware Compiler Environments PDF

FEB 12 Pragnesh Patel from Indiana University
Parallel Data Mining (specifically Support Vector Machine) on Graphic Processors PDF

INTERVIEW

Leighanne Mills
Administrative Support Assistant

Tell us a little about yourself. Where are you from and how did you get your start at UT?

I'm from a little town called Maryville or, as the Blount County natives roll it off their tongues, Murville. I graduated from William Blount HIgh School in '92 and started working for UT in September '93. I had a brief stint of college in between my high school graduation and my starting at UT.

My first job was a secretary in the Mail Services Department on the Ag Campus. I was there for two years before leaving to work for the Biomedical Office at UT Hospital. After two years there, I moved back to the main campus and worked in Alumni Affairs from '97 to '01.

In June of '01, I transferred to Arts and Sciences Advising Services . When the position in ICL became available in July '06, I applied, interviewed with three wonderful ladies, and was offered the job.

How did you first learn about ICL and what is your role in the group?

I have to be honest and say that up until three years ago, I had never heard of ICL. I was in need of a new challenge in my career and interviewed for the position. Since then, I've learned that ICL is a very large family of geeks and working with everyone has been such a pleasure.

My role in the group is a mixed bag of little things. I process travel, schedule the catering for Friday Lunches, help arrange for hotel accommodations for workshops and the ICL retreat, and various other things that help run the office.

What do you enjoy most about working in the group?

It may sound crazy, but I enjoy helping in organizing the workshops and our annual retreat - contacting hotels, caterers, and making sure everything is in place before the event. I also enjoy

the group itself. We have such a diverse group of people from all over the world and I'm pleased to be working with them.

If you could have any job in the world, what would it be and why?

Since I don't have mad editing skills, but love to read, I'd love to be able to just sit back and be a Book Reviewer. Reading books and getting paid to write my opinion about them without having to pay attention to grammatical and spelling errors is my cup of tea. However, I would have to request only the fiction variety, as nonfiction, reference books, and technical books would have me falling asleep in that cup of tea!

What are some of your interests/hobbies outside of work?

I love to cook... but more than that, I love to bake. And to be specific, I love to bake different types of cupcakes and I always give them away. I've debated whether to go to Culinary School or take a few Pastry/Baking classes to finesse my hobby. Reading is another passion of mine (see above) as well as traveling.

What is something that might surprise people to know about you?

I have a huge social network of friends from blogging in an online community. These friends are from across the US as well as other countries. I have actually met over 50 of them in person!

Top 10 HPC Predictions for 2010

IDC just released its latest market predictions for HPC. Where are x86 architectures headed? Will proprietary interconnects continue to decline? What's going to be HPC users' greatest challenge in 2010? **Download the presentation PDF**.

RELEASES

PAPI Patches

Based on recent feedback from PAPI users, the PAPI team has begun a periodic and cumulative patch release process to keep the software up to date and bug free. Visit the **PAPI software page** to get the latest patches.

Open MPI

Versions 1.4 and 1.4.1 of Open MPI were released recently. Containing primarily security updates and bug fixes, these two releases constitute a full transition from 1.3, and the Open MPI team recommends that users of earlier versions, including 1.2.x, upgrade. For more information, visit the **Open MPI mailing list announcement**. See the **Open MPI Download page** for the new releases.

PEOPLE

Samuel "Sticks" Mabakane, from South Africa's Center for High Performance Computing (CHPC), is visiting through March 5th.

RECENT LUNCH TALKS Continued

FEB 19 Dzung Phan from University of Florida
Optimization and its Applications to Graph Partitioning and Sparse Recovery PDF

FEB 26 Samuel "Sticks" Mabakane from Centre for High Performance Computing:
Centre For High Performance Computing: High-end Computing for African Researchers PDF

UPCOMING LUNCH TALKS

MAR 5 Hatem

MAR 12 George

MAR 19 PhD student Peng Du

MAR 26 PhD student Trey White

DATES TO REMEMBER

MAR 3 Mens Basketball (vs. Arkansas)

MAR 8-12 Spring Break (no classes)

MAR 25-27 ICL 20 Year Workshop

ICL CONNECT

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