

GridAsia 2006 Workshop

Using PC Grid for Large Scale Computation

Wednesday, 17 May 2006, 10:30am – 5:00pm

**Organised by
PC Grid Special Interest Group (SIG), National Grid Office, Singapore**

PC Grid has made its presence felt in the Grid computing arena in Singapore when the Tera-scale Campus Grid at NUS (TCG@NUS) and the SG@School PC Grid infrastructure were setup recently. It has been proven that PC Grid, which harnesses and channels the idle compute cycles of large number of existing PCs for large scale computation, can be an invaluable resource that helps to push the boundary of research computation and new business applications.

In this workshop, you will be shown how some researchers are able to reduce computation time from weeks to days using the PC Grid. Data intensive Life Science and Bioinformatics applications have been found to be some of the most suitable applications for the PC Grid. Applications such as BLAST, HMMER and Modeler will be demonstrated during the workshop. In addition, applications in the area of digital media, financial modeling and general parametric study will also be highlighted. During the workshop, participants will be able to experiment these applications on the large scale compute power of the TCG@NUS.

Agenda

1. Introduction to PC Grid Computing technology.
2. Demonstration of Life Science and Bioinformatics related applications.
3. Demonstration of digital media, financial modeling and parametric study applications.

Instructors:

Mr. Ong Guan Sin, Grid Manager and Evangelist, Singapore Computer Systems Ltd.
Mr. Wang Junhong, Systems Engineer, NUS Computer Centre.

Registration

Please register at GridAsia 2006 Website: <http://gridasia.ngp.org.sg/2006/>.

Biodata

Mr. Ong Guan Sin is currently Grid Evangelist/Manager of SCS, responsible to develop its Grid business from scratch since 2003. He built his first Grid system in 1997 when he participated in RC5 cracking effort on the Internet. Prior to joining SCS, he was with Singapore Management University as Senior Operations Manager, building the university's infrastructure and operations from a small setup to a highly available environment today. Earlier, he spent his entrepreneurial years building multilingual Internet addressing technologies and e-commerce ventures.

Mr. Wang Junhong has a Master degree in mechanical engineering from Nanyang Technological University. Joined NUS Computer Centre in 2003, he is working as a systems engineer providing support and consultancy to researchers in the areas of computational fluid dynamics (CFD) analysis, high-performance computing and grid computing in recent years. He worked closely with partners on the infrastructure development and grid-enabling applications of the Tera-Scale Campus Grid at National University of Singapore (TCG@NUS), a PC dominated grid computing environment. He is also involved in training and support for the PC Grid services.