HPC & Research Computing Support at HKU

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"Mini-PRAGMA" at HKU 17 July 2012

The University of Hong Kong

- ► Founded in 1912
- Ranked 18th in "THES-QS World University Rankings 2007"
- Ranked 1st in "QS.com Asian University Rankings 2010"
- 22,139 students (in 2009-2010)
 - 11,589 undergraduates, 10,550 postgraduates
- ▶ 10 faculties
 - Architecture, Arts, Business and Economics, Dentistry, Education, Engineering, Law, Medicine, Science, Social Sciences

Information Technology Services

Characteristics of HKU HPC & Research Computing Support

- One of the few that provides centralized HPC and service support for cutting-edge research collaborations
- Well known within institution as well as in the region
- Active exchanges with a number of Chinese and International research consortiums
- Enabled successful work of more than 130 PhDs since 1995
- ► Hosted the 20th PRAGMA Conference at March 2011





Memory Refresh – PRAGMA 20 cum HKU Centenary IT Conference

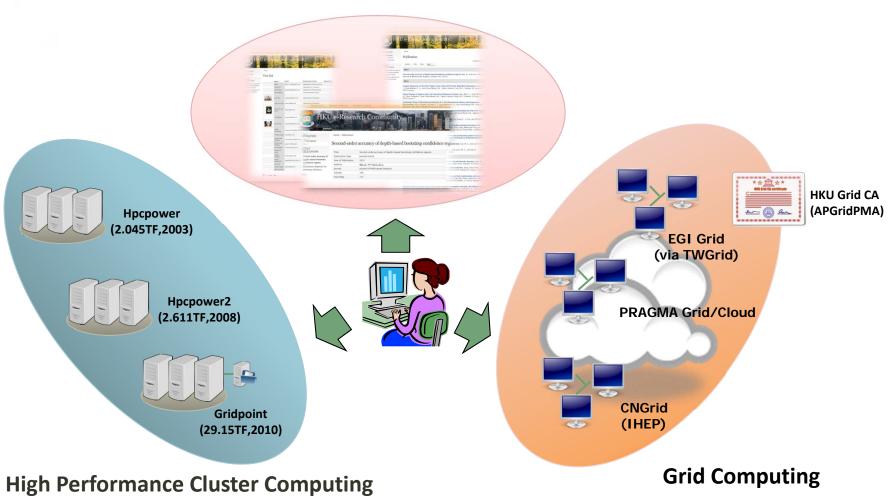






Existing HPC Services

HKU eResearch Community

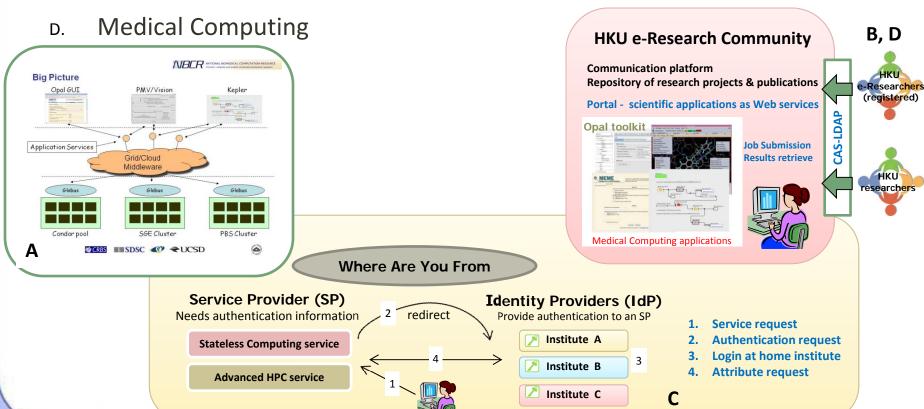






Our goal in coming years to be achieved

- Web-based Stateless Scientific Computing Services A.
- HKU e-Research Community B.
- Federated Identity Management System for Scientific Collaboration C.



Our mission

HPC Cluster Systems

Local institutes

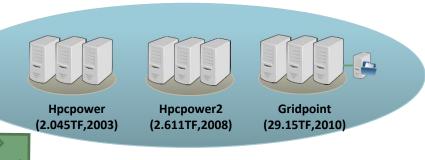
HKU

e-Researchers

(registered)

HKU

researchers



Federated Identity Management System

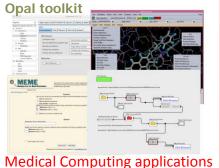
for Scientific Collaboration

(Shibboleth, SAML, etc.)

HKU e-Research Community

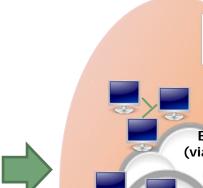
Communication platform Repository of research projects & publications

Portal - scientific applications as Web services

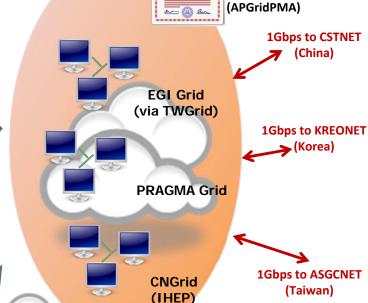


CAS-LDAP **Job Submission Results retrieve**





Grid Computing



HKU Grid CA

International

Research Network



Information Technology Services The University of Hong Kong

HPC Team



Thank You