

LHC Computing in KISTI: Current Status

2007. 4

Soonwook

Hwang(hwang@kisti.re.kr)

Center for e-Science Research and
Development

Outline

- KISTI-EGEE-II Collaboration
- ALICE-LCG Tier-2 Center in KISTI

Introduction to KISTI-EGEE II Collaboration

- Official EGEE-II Partner
 - Contracting partner since the EGEE-II started
- Interesting Activities:
 - SA1 (Grid Operation and Management)
 - JRA1 (Middleware Reengineering)
 - NA3 (Training)
- Focusing on Grid operation and management
 - Working with ASGC (Academia Sinica Grid Computing Center) in Taiwan
- Cooperating with CKSC team, another EGEE-II partner in Korea

Goal of EGEE Collaboration

- Gain experience in the EGEE middleware and Grid operation procedures
 - Install EGEE middleware (e.g., glite, lcg) on KISTI site and provide EGEE services tightly connected with other WLCG/EGEE sites
- Facilitate joint research activities between Korea and EU based on EGEE infrastructure
 - HEP, FusionGrid, ...
 - Currently, we are working with the ALICE group in CERN
- Investigate the feasibility of EGEE infrastructure on which to build many e-Science applications other than HEP

EGEE-II Collaboration: Current Status

- May, 2006
 - Bob Jones, EGEE-II Project Director, visited KISTi to discuss collaboration between EGEE-II and KISTi in the areas of Grid infrastructure and applications.
- June, 2006
 - Linux Cluster preparation for EGEE middleware deployment
 - gLite installation and configuration
- July, 2006
 - Internal deployment on gLite installation and configuration
- September, 2006
 - Register to AP-ROC for EGEE certification
- October, 2006
 - Installation and configuration of LCG components (lcg-RB, lcg-CE)
- Since January, 2007
 - KISTi site has been approved as an EGEE-certified site, operating production run on a daily basis

KISTI as EGEE certified site

KR-KISTI-GCRT-01

Status: Certified [\[Click here to view status history\]](#)

Type: Production

ROC: AsiaPacific

Site local time (GMT+9): 10:02 (16/01/07)

Official Name: Korea Institute of Science and Technology Information, Republic of Korea

Map Name: KISTI

Institution / Department Homepage: <http://www.kisti.re.kr/english>

Site email: hwang@kisti.re.kr

Site telephone: 82-42-869-0647

Emergency telephone: 82-42-869-0647

CSIRT email: security@gridcenter.or.kr


CSIRT telephone: 82-42-869-0647

Operational hours: 09:00-18:00 +0900(KST) (GMT+9)

GIIS URL: <ldap://venus.gridcenter.or.kr:2170/mds-vo-name=KR-KISTI-GCRT-01,o=grid>

Organisation: LCG2

Firewall:

 **MONITORING: ON**

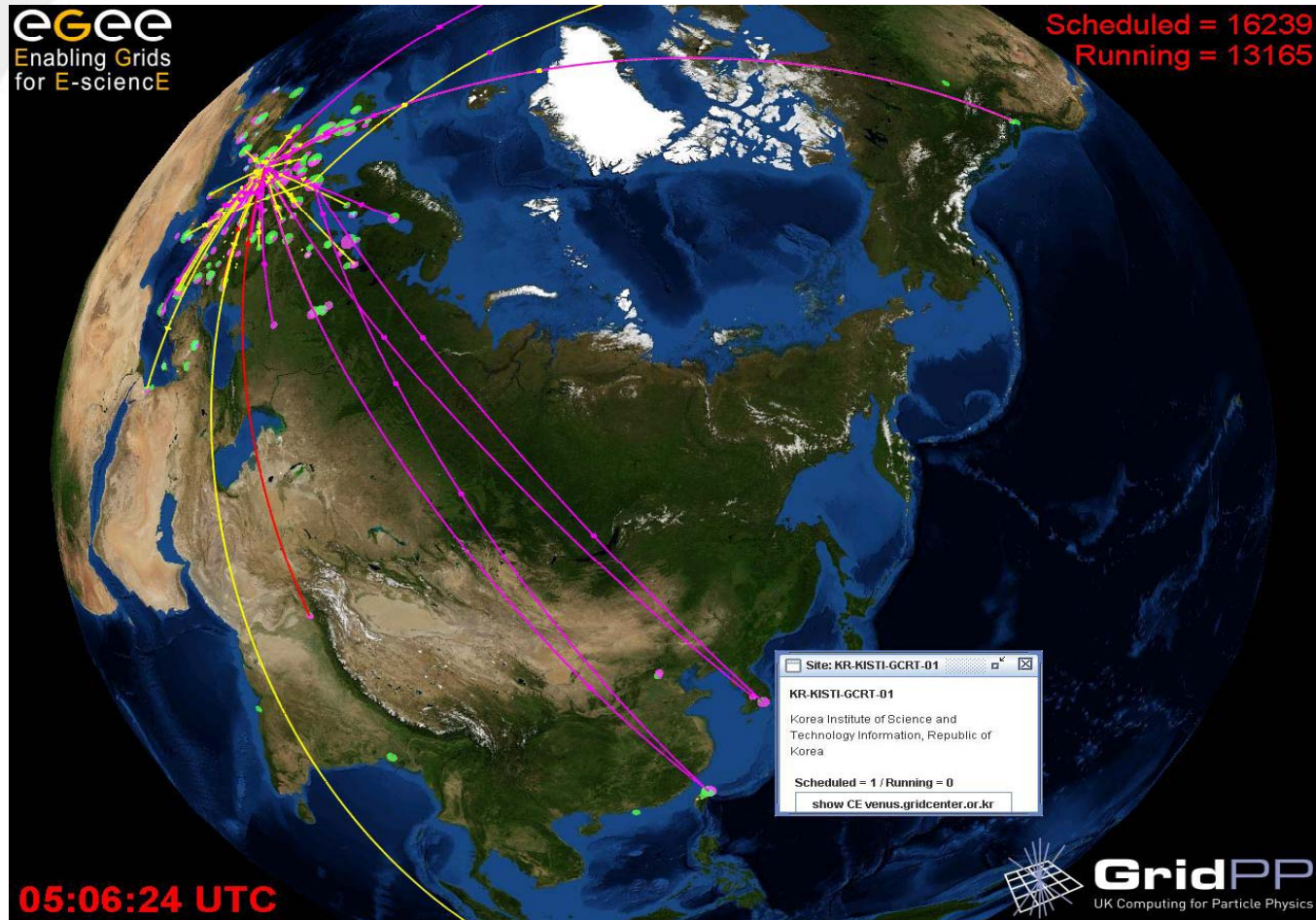
Nodes:

Nodetype	Machine	Core	Monitored
BDII	bdiisrv.gridcenter.or.kr		Y
CE	venus.gridcenter.or.kr		Y
LFC	lfc.gridcenter.or.kr		Y
MON	rgmasrv.gridcenter.or.kr		Y
PROX	proxysrv.gridcenter.or.kr		Y
RB	rbsrv.gridcenter.or.kr		Y
SE	se-classic.gridcenter.or.kr		Y
UI	ui.gridcenter.or.kr		Y

Source: <https://goc.grid-support.ac.uk/gridsite/gocdb2>

April 25, 2007

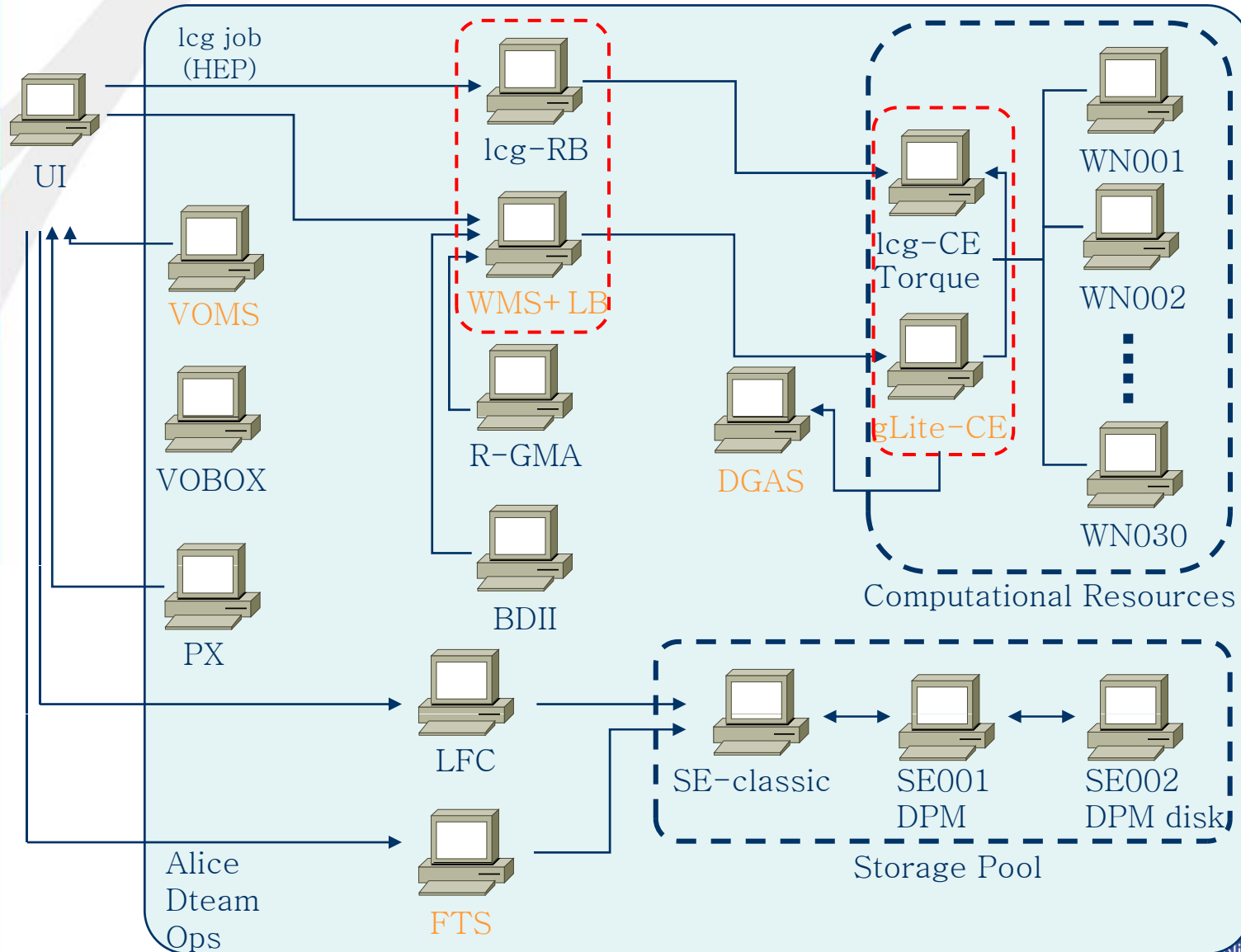
3D Real Time Monitor@EGEE



Source: <http://gridportal.hep.ph.ic.ac.uk/rtm>

April 25, 2007

gLite M/W Deployment



KISTI Testbed for EGEE Deployment

- Before October, 2007



- After October, 2007



KISTI Testbed Specification

- OS: Scientific Linux 3.0.4
- CPU: Intel® Pentium-IV 2.0GHz
- Memory: 2GB per CE, all WN nodes
- Disk: 40GB per all nodes
 - 500GB RAID server shared by CE and all WN as user home directory
 - 2TB RAID server for DPM backend storage
- Network: 1Gbit Ethernet

ALICE-LCG Collaboration: Current Status

- August, 2006
 - Internal deployment of ALICE experiment SW (Aliroot,...)
- September, 2006
 - Dr. Federico Carminati, visited KISTI to discuss the construction of ALICE Tier2 Center in KISTI
- October, 2006
 - ALICE VOBOX installation and configuration
- December, 2006
 - Participated in the WLCG Tier-2 workshop in Asia held in Mumbai, presenting the status of KISTI ALICE Site
- Feb, 2007
 - Approved as an ALICE-LCG site
- Oct, 2007
 - LCG MoU between MoST and CERN

Plan to Be Pledged for WLCG Resources

Korea, KISTI	2007		2008	2009	2010
	Before October	After October			
CPU (kSI2K)	30	50	100	150	150
DISK (TBytes)	5	15	30	50	50

감사합니다

Republic of Korea

ありがとう

Japan



Thanks

USA

Danke

Germany

Grazie

Italy

Merci

France

謝謝

China