

Resources and status of Computing in Korea

**KSC Visitors Complex
Debus Conference Center**

October 11, 2010

Guinyun Kim (CHEP, KNU)



CHEP-AMS Remote Center

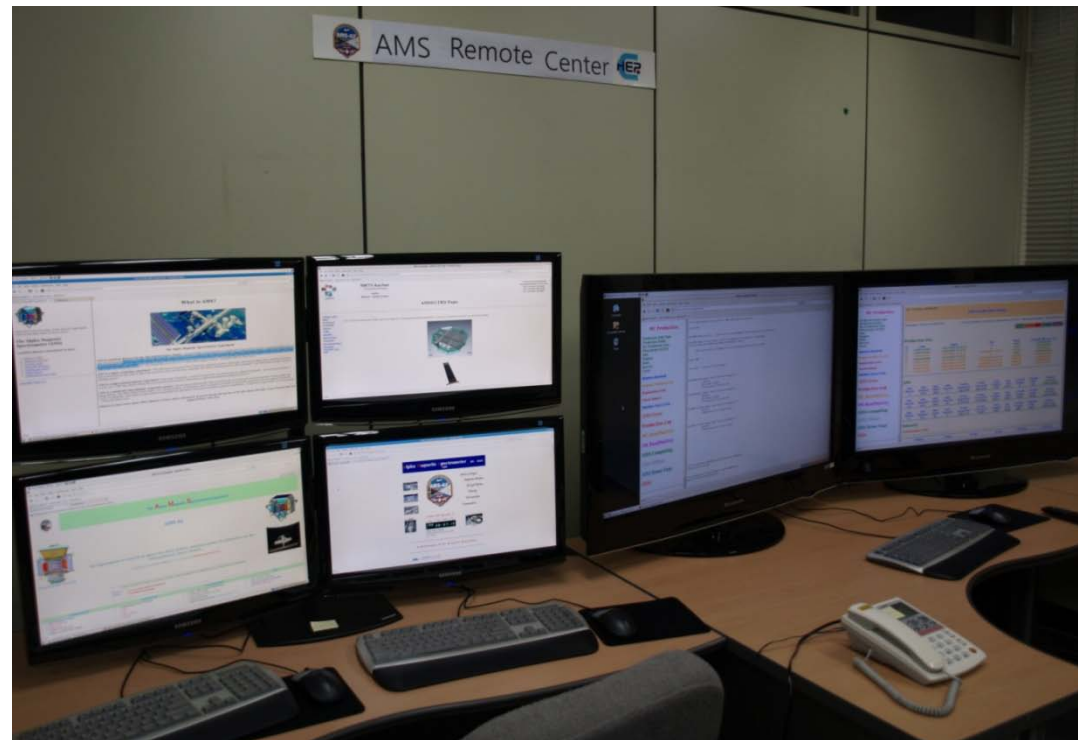


- Space: 560 m²

Spaces	Size (m ²)
Computing Room	188
Offices (total 6)	180
Meeting room	60
Storage and etc.	132
Total	560



- Electrical Power: 250 kW
 - 60 kW of UPS
 - 200 kW of Generator
- Cooling
 - central air-conditioning system
 - 4 large air-conditioners
- Safety
 - Fire alarm system
 - Online monitoring





Status of Computing nodes



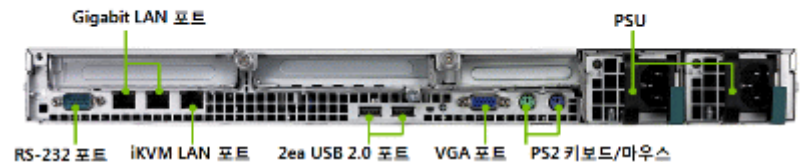
BEFORE 2009, 89 Nodes, 68 KSI2K
OS: Scientific Linux 5.5 X86



Feb. 2010, 5 Nodes, 64 KSI2K
OS: Scientific Linux 5.5 X86_64
Status: 8 Cores in 2 Zeon CPU (E5504)



Dec. 2010 (Plan), 5 Nodes, 200KSI2K
Status: 24threads/2 Cores in
2 Zeon CPU (X5680) / node





Network



- Main Network Switches
 - Two of **CISCO Catalyst 6509**
 - 4 ports for 10 Gbbs
- Network Bandwidth
 - **KREONET: 10 Gbps**
 - **KOREN: 10 Gbps**

Total 20 Gbps!





Status and Plan



Year	Present Storage	Target Storage	Present CPU	Target CPU
~2009	0	0	68 KSI2K	68 KSI2K
2010	40 TB	40 TB	132 KSI2K	332 KSI2K
2011		100 TB		680 KSI2K
2012		180 TB		1100 KSI2K
2013		280 TB		1600 KSI2K