

KISTI-GSDC Tier-1 SITE REPORT

@ Academia Sinica, Taipei, Taiwan
13 – 14 March 2016

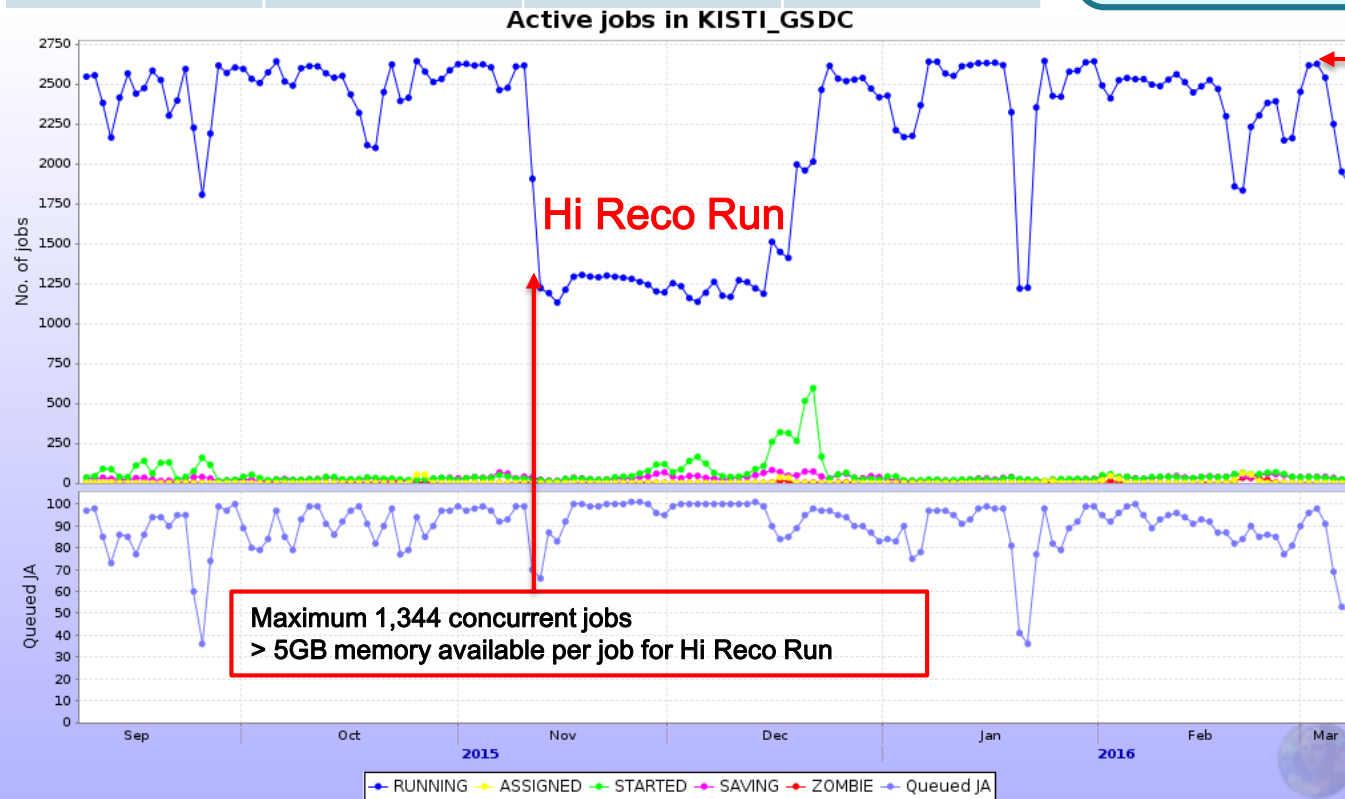
Byungyun KONG
on the behalf of KISTI-GSDC

Tier-1 Operations

• Pledges

	2014	2015	2016
CORE(HS06) (Installed)	25,000 (28,800)	28,000 (28,800)	31,000 (31,000)

Participated in **Hi Reco Run**
with **6GB** memory (Doubled)



Maximum 2,688 concurrent jobs

Maximum 1,344 concurrent jobs
> 5GB memory available per job for Hi Reco Run

Active jobs in KISTI_GSDC

Series	Last value	Min	Avg	Max
1. RUNNING	2623	0	2191	2827
2. ASSIGNED	0	0	2.883	1773
3. STARTED	18	0	55.68	2063
4. SAVING	19	0	31.53	703
5. ZOMBIE	0	0	1.922	1203
Total	2660		2283	

Queued JA

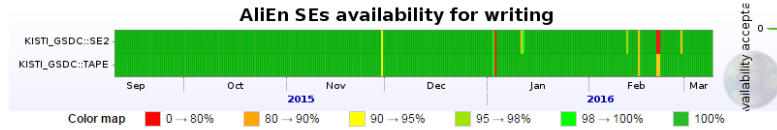
Series	Last value	Min	Avg	Max
1. Queued JA	96	0	90.05	296
Total	96		90.05	

• Pledges

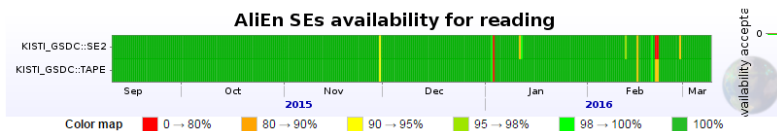
	2014	2015	2016
Tape(TB) (Installed)	1,500 (1,000)	1,500 (1,500)	1,500 (1,500)
Disk(TB) (Installed)	1,000 (1,000)	1,000 (1,000)	1,500 (1,500)

Tape used almost 1,500TB
500TB will be installed
99% availability during 6 months

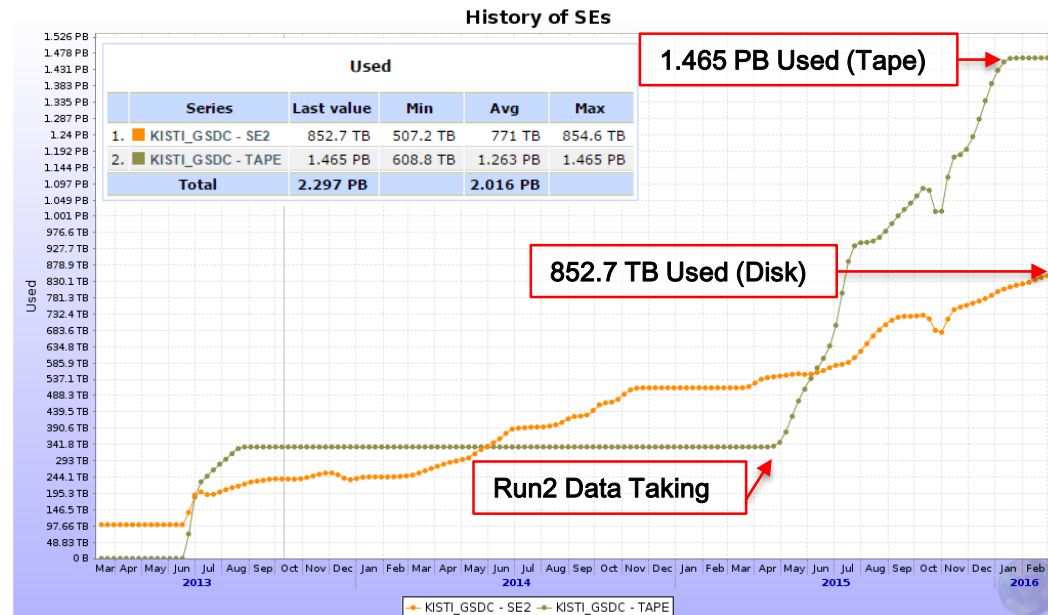
Name	Status	Size	Used	Free	Usage	No of files	Type	ADD test
ALICE::KISTI_GSDC::TAPE	OK	387.2 TB	387.3%	-	1.465 PB	1.299 M	FILE	OK
ALICE::KISTI_GSDC::SE2	OK	966.8 TB	88.39%	112.2 TB	854.6 TB	23.49 M	FILE	OK



Link name	Data		Individual results of writing tests			Overall Availability
	Starts	Ends	Successful	Failed	Success ratio	
KISTI_GSDC::SE2	09 Sep 2015 18:16	09 Mar 2016 16:15	2175	11	99.50%	99.55%
KISTI_GSDC::TAPE	09 Sep 2015 18:16	09 Mar 2016 16:16	2180	6	99.73%	99.75%



Link name	Data		Individual results of reading tests			Overall Availability
	Starts	Ends	Successful	Failed	Success ratio	
KISTI_GSDC::SE2	09 Sep 2015 18:16	09 Mar 2016 16:16	2174	12	99.45%	99.54%
KISTI_GSDC::TAPE	09 Sep 2015 18:17	09 Mar 2016 16:16	2179	7	99.68%	99.74%



Site Availability-Reliability



- **100%** Reliability for the last 6 month (target : 97%)
- On track for a stable and reliable site
 - Participating in weekly WLCG operations meetings : reporting operation-related issues
 - 24/7 monitoring & maintenance contract
 - 2 people responsible for on-call

$$\begin{aligned}
 \text{Reliability} &= \frac{T_{UP}}{T_{UP} + (T_{DOWN} - T_{SCHED_DOWN})} \\
 \text{Availability} &= \frac{T_{UP}}{T_{UP} + T_{DOWN}}
 \end{aligned}$$

< Monthly Availability-Reliability (%) >

	Aug	Sep	Oct	Nov	Dec	Jan	Average(6M)
Reliability	100	100	100	100	100	100	100
Availability	100	100	100	100	94	100	99

The **stable operating** for a high **reliability** and **availability** site

Asia Tier Center Forum

- Where

- When

→ be fixed

- Mailin

→ a

(C

- Webs

→

Asia Tier Center Forum 2016

Suranaree University of Technology, Nakhon Ratchasima, Thailand

early in October 2016

Location



About ATCF

The aim of this forum is 1) (short-term) to discuss on the possible solutions for the improvement of connectivity among Asian Tier sites and their status of domestic network environment and 2) (long-term) to monitor periodically the state-of-art of the established network environment through this forum and to organise a body with a broader agenda embracing not only the network but also common issues that could be arisen among Asian Tier sites. The target of this forum is mostly Asian Tier sites, however, the forum is open to every interested parties, in particular, distributed computing coordinations of LHC experiments and network experts on OPN/ONE.

Events

- 2016** **Early October** [PHOTOS »](#)
 Suranaree University of Technology, Thailand
- 2015** **September 22-24** [PHOTOS »](#)
 KISTI, Korea

Members

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rat Kobdaj

**Thank
You!**