WLCG GridKa+T2s Workshop

RDIG (ALICE part) sites report

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Talk outline

- RDIG ALICE sites
- Grid services offered by these sites
- SE issues
- Grid middleware used on sites
- RDIG resources available for ALICE (number of CPU and disk space per site).
- Participation to date in SC4 (PDC2006)
- Participation in remainder of 2006
- RDIG ALICE sites management

RDIG ALICE sites (1/2)

- State Research Center of Russian Federation Institute for High Energy Physics (*IHEP*)
- Institute for Nuclear Research of the Russian Academy of Sciences (*INR*)
- State Scientific Center of Russian Federation Institute for Theoretical and Experimental Physics (*ITEP*)
- Joint Institute for Nuclear Research (*JINR*)
- Petersburg Nuclear Physics Institute of Russian Academy of Sciences (*PNPI*)
- Russian Research Centre Kurchatov Institute (*RRC KI*)
- Skobeltsyn Institute of Nuclear Physics of Lomonosov Moscow State University (*SINP*)
- Saint-Petersburg State University (*SPbSU*)

RDIG ALICE sites (2/2)

Grid services offered by ALICE sites

Service	Site
CE	all ALICE sites
SE	
UI	
LFC	
VOBOX	
RB	SINP, JINR, PNPI
BDII	SINP, JINR
PROXY	

SE issues

- There are two types of SE used as SRM backend : dCache (SINP and JINR) and DPM (the rest sites).

- Waiting for xrootd protocol implementation into dCache (currently it is tested at CERN) and DPM (prototype is expected in mid. October).

- Admins prefer to install only LCG/gLite packages on their grid sites and some of them would like to avoid non-LCG/gLite package.
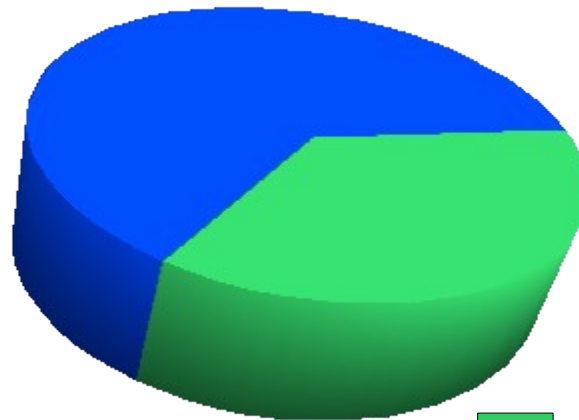
Grid middleware used on sites

LCG 62,50%

IHEP
INR
RRC-KI
SINP
SPbSU

ITEP
JINR
PNPI

gLite 37,50%

RDIG resources available for ALICE

SITE	CPU		SE capacity, Tb
	Max	Average*	
IHEP	70	18	0,25
INR	20	7	0,42
ITEP	62	24	1,5
JINR	30	8	2
PNPI	60	15	0,45
RRC KI	40	40	2
SINP	100	25	1
SPbSU	4	4	1
Total	386	141	8.62

Average* - average number of CPU using by ALICE on one sites shared with other VOs

It is planned to increase CPU and disk resources on RDIG sites at the expanse of government funds.
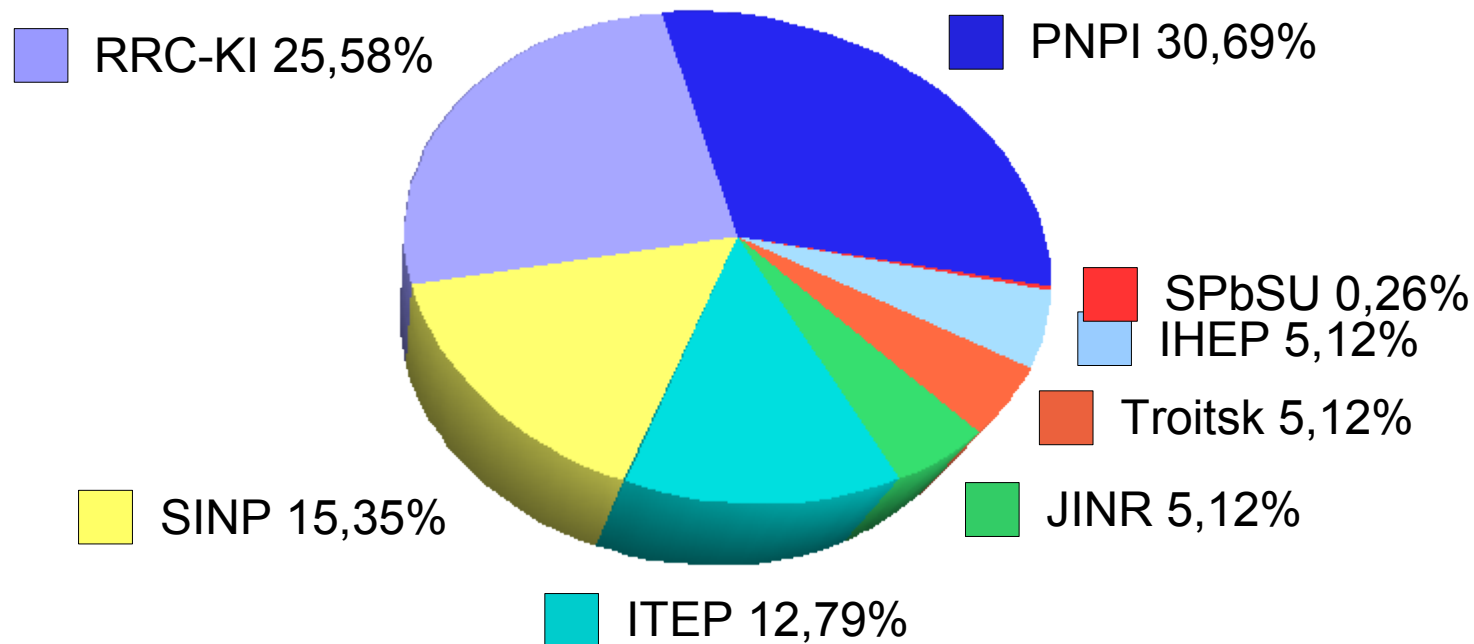
- Total contribution of RDIG sites into ALICE production is about 4% of total number of DONE jobs.

DONE jobs (distribution among RDIG sites) 04.2006 - 09.2006

RRC-KI 25,58%

PNPI 30,69%

SPbSU 0,26%
IHEP 5,12%

Troitsk 5,12%
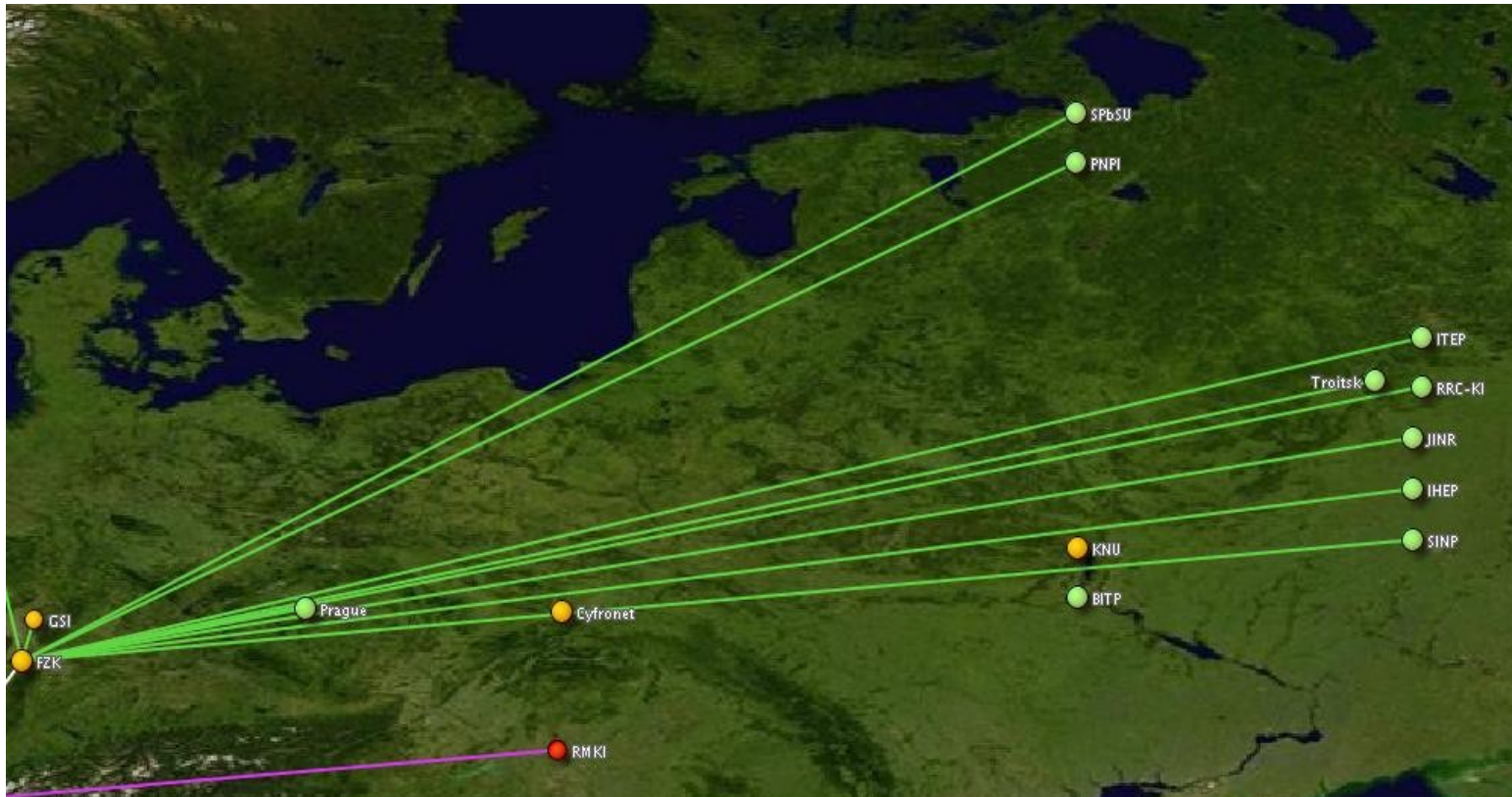
JINR 5,12%

SINP 15,35%

ITEP 12,79%

Participation to date in SC4 (2/3)

- FTS channels between our sites and FZK have been successfully set up and tested by Andreas Heiss.

Participation to date in SC4 (3/3)

- The most long-term problems:

  - firewall problem on WNs at RRC-KI (STARTED but not RUNNING jobs)

  - problem with $MYPROXY_SERVER environment variable on VOBOX after gridware update

Participation in remainder of 2006

- Taking a part in T1 <-> T2 FTS exercises
- Participation in end-user analysis

RDIG ALICE sites management

Galina Shabratova
(JINR)
Responsible for ALICE computing in Russia

Mikalai Kutouski (JINR)
*Technical coordinator and
ALICE software group manager*

Eygene Ryabinkin (RRC KI)
*Technical coordinator and
ALICE software group manager*

site sysadmins

References

- RDIG web-site http://egee-rdig.ru/

- Monitoring of RDIG resources (not all sites yet):

http://rocmon.jinr.ru:8080/

Acknowledgements

- Organizers of this SC4 Tier2 workshop

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