

Grid Data Transfer

Status Report

Olivier Stezowski

Pietro Molini

Grid Storage Sites

- INFN CNAF Tier1 @ Bologna 
Total: 87.89TB; Free 26.12TB (29.7%); info update Nov. 17th
- CCIN2P3 Tier1 @ Lyon 
Total 100TB; Free ~92TB; 100TB more per year
- IPHC IRES @ Strasbourg 
Total 26TB; Free all; ~20TB available by late Oct. 2010, 80TB more requested for 2011
- IPNL @ Lyon 
Total 4.5TB; Free all

Data location

All experimental data are stored in GRID

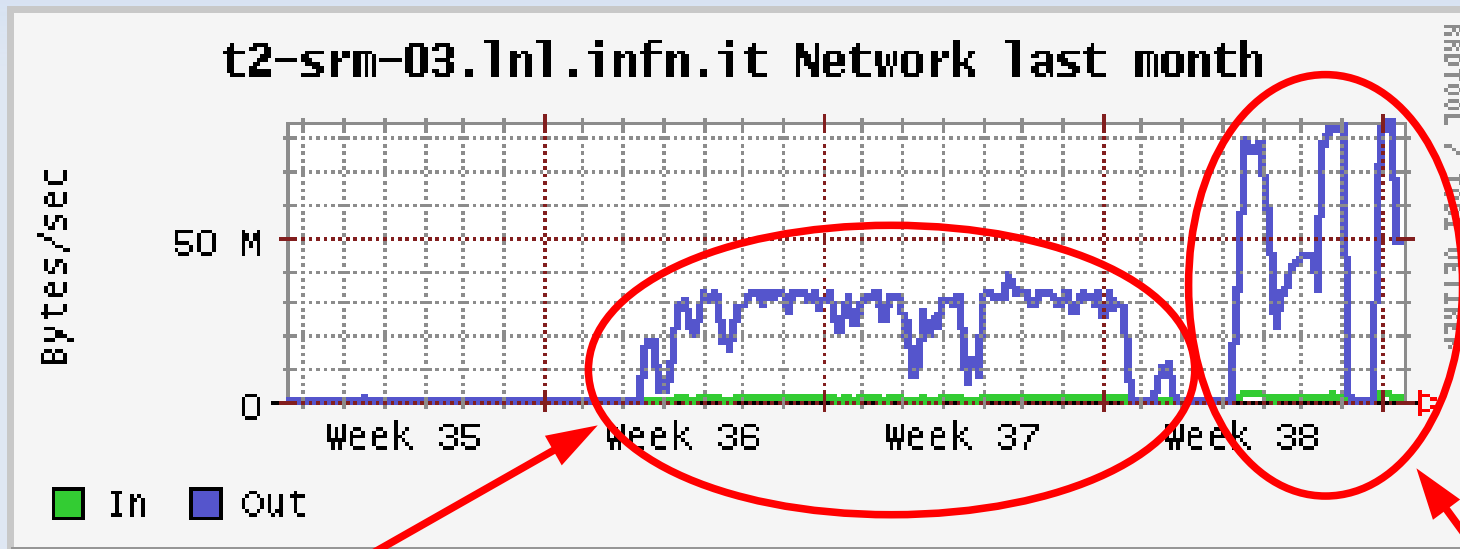
- CCIN2P3 Tier1 @ Lyon 
2010_week19, 2010_week28
- INFN CNAF Tier1 @ Bologna 
2009_week12, 2009_week22, 2009_week27,
2009_week43, 2009_week46, 2009_week49,
2010_week06, 2010_week07, 2010_week09,
2010_week21, 2010_week24, 2010_week25,
2010_week29.

News from Grid Sites

- CNAF has just migrated the storage system from CASTOR to GPFS: better performance for tape access. Endpoints will change.
- LYON ?
- Other ?

Transfer Rates

- LNL – CNAF T1 ~100MB/s
- LNL – CCIN2P3 T1 max. 35MB/s



CCIN2P3 Tier1

CNAF Tier1

Problems & Solutions

- **P**: “Preparation” of data before sending
requires ~100% of used space
- **S**: Production of smaller files (5GB)
data are sent “as they are”, following a standard naming convention
- **P**: (semi)manual data movement
script using lcg-utils and clientSRM
- **S**: automatic data movement triggered by RC
FTS, lcg-utils, RFT

More information

- Guide for retrieving data from GRID
http://csngwinfo.in2p3.fr/mediawiki/index.php/Grid_HowTo
- Technical information
http://csngwinfo.in2p3.fr/mediawiki/index.php/SRM_StoRM
- Guide for sending new data to the GRID (admin only)
http://csngwinfo.in2p3.fr/mediawiki/index.php/Data_Movement_Guide
- Viewer of GRID resources and statistics (not fully working!)
<http://gstat-prod.cern.ch/gstat/vo/>