

TRIUMF Tier-1 plans
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To ensure a continuing participation in the Service Challenges towards the full deployment of the LHC service, the current planning for the TRIUMF Tier-1 centre is the following:

Networking:

Currently:

- * 2 x 1 GbE circuits TRIUMF to CERN (since April 18th / July 19th 2005)
- * 10 GbE Foundry NI40G's & NI1500 on loan

The following is in progress: to be completed by end of 2005

Circuits:

- * Sept 1st 2005 CANARIE/CA*net4 delivered a 10GbE circuit between Amsterdam and New York
- * 3rd week Sept 2005 CA*net4 add 4th OC192 circuit across Canada
- * End of October 2005 add a 5th OC192 circuit across Canada
- * Still waiting on final Lambda between Amsterdam-CERN (GEANT2 ?)

10 GbE Equipment:

- * Last mile DWDM optics for TRIUMF/BCNET expected by Oct/Nov 2005
- * 10G Foundry Rx-4 switch ordered, delivered on Oct. 4 2005

SC3 Planning:

We achieved the following:

Standalone tests (CERN-TRIUMF):

- disk-disk: 275 MB/s (10 GigE, gridftp only, no SRM, no FTS)
- disk-disk: 100 MB/s (dCache/SRM, no FTS) 1 x 1GigE

SC3 (phase 1): disk-disk: 75 MB/s (dCache/SRM + FTS), 2 x 1GigE
disk-tape: 36 MB/s (dCache/SRM + FTS), 2 x 1GigE

Current SC3 cluster: dCache/SRM + FTS server, with 5.6 TB (disk) and 8.3 TB (tape)

October 2005: LFC + VOBOX installation/configuration + ATLAS initial SC3 tests

November 2005: ATLAS / SC3 phase 2

December 2005: ATLAS / SC3 phase 2

Hardware acquisition for SC4:

Part of our acquisition profile/budget planning, we intend to acquire in Q1 of 2006:

CPU (kSI2K): 84

DISK (TB) : 12

TAPE (TB) : 50

which will be followed with a similar purchase toward the end of 2006.

The ATLAS needs for SC4 are not well known at this stage, so we may buy more storage if necessary.

Personnel:

Two additional persons will be hired by the end of 2005 to support the development and operations of the Tier-1 centre (Sys. admin + Grid expert)