TRIUMF SC3 Status

- **Current Hardware:**

  dual opterons and EMT64 based servers

  5.5+ TB (disk)

  8+ TB (tape)

- **Software:**

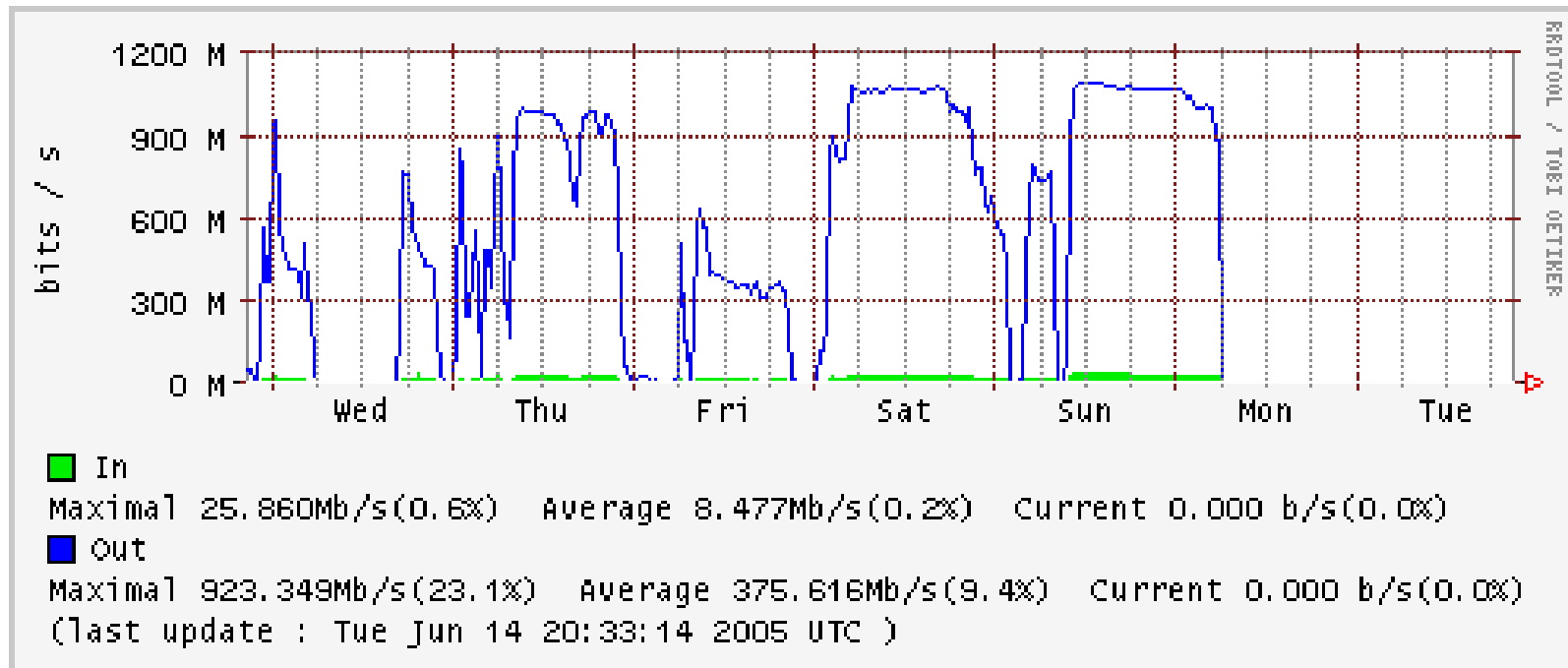 **dCache/SRM based storage management**

- **Networking:**

  2 x 1 GigE established already

  10 GigE currently available (temporary link)
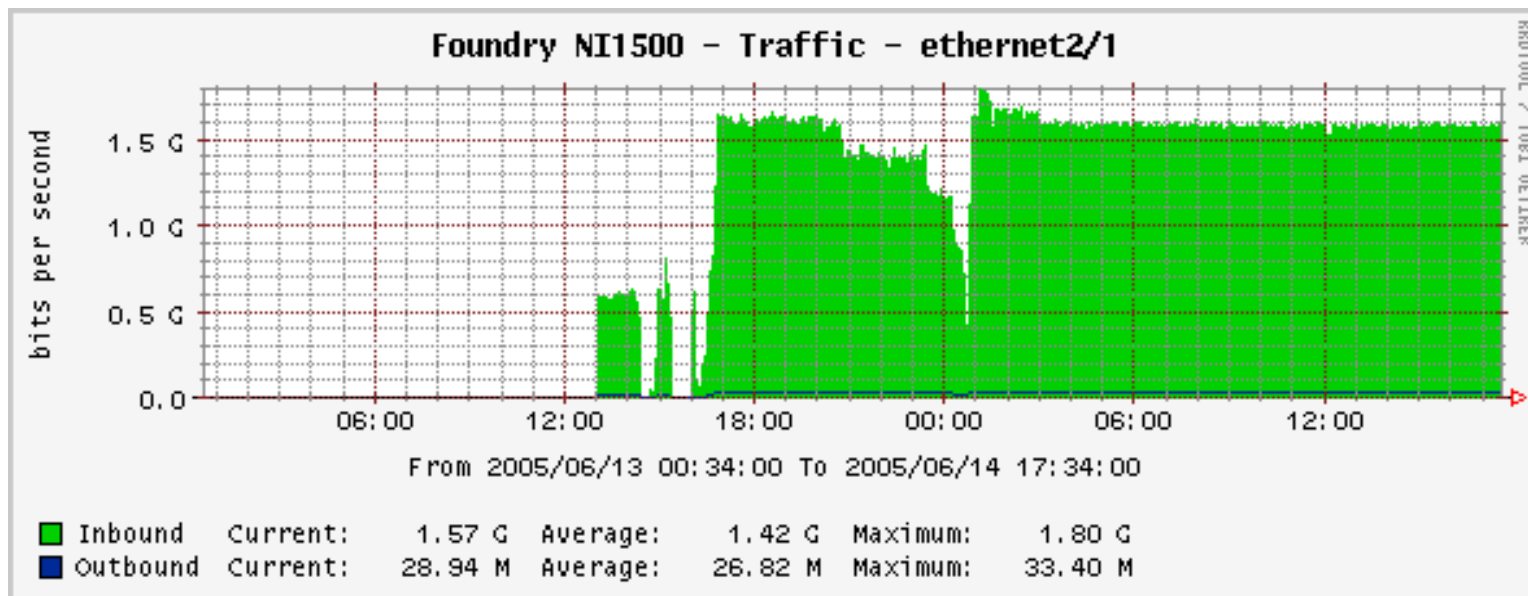
TRIUMF-CERN Network tests @ 1 GigE

- SRM + gridftp initiated transfers:

- SRM did not fill the pipe on its own, so added additional gridftp transfers.
- Need to increase queue/threads for the SRM server.
- Switched to 10 GigE link on Monday.

TRIUMF-CERN Network tests @ 10 GigE

- 10 GigE link properly established few days ago
  (this is a temporary link till June 18th)

Foundry NI1500 – Traffic – ethernet2/1

	Current:	Average:	Maximum:
Inbound	1.57 G	1.42 G	1.80 G
Outbound	28.94 M	26.82 M	33.40 M

From 2005/06/13 00:34:00 To 2005/06/14 17:34:00

- Currently sustaining 200 MB/s with the current settings.

- Gridftp transfers only (will switch to SRM only after some tuning).

Tier-2's Status

- The following Canadian sites will deploy dCache/SRM :

  University of Toronto

  University of Victoria

  Simon Fraser University

  University of Alberta

  (note: these are NOT officially ATLAS Tier-2)

- TRIUMF (Tier-1) is providing support for these sites

- Target: toward end of July for Tier1-Tier2 transfers

- DPM could also be deployed at one institution (to gain experience/knowledge)

To do list

- after June 18th, revert back to 2 x 1 GigE
  (so far we used only 1 GigE, we will need to do channel bonding
  of 2 x 1 GigE for SC3 to fully exploit the link)

- tape component integration into the dCache system
  (test HSM functionality/tape throughput): June 20 - June 24

- deploy and test FTS and LFC: June 20 - July 1

- Our SC3 cluster is NOT a production system: this gives us
  some freedom in testing/deploying various components.

- Need to tune further some dCache parameters/pools behavior.