



Tier 3 Status at Panjab

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Computing Infrastructure



- Server (x86_64, 2GB RAM, SLC3.0.8)
 - NIS for the whole network.
 - Samba as Primary Domain Controller (PDC) and roaming profile on window systems.
 - webserver (puhep.res.in) and user pages <http://www.puhep.res.in/~username>
 - Raid Storage of ~ 400 GB.



ERNET Network



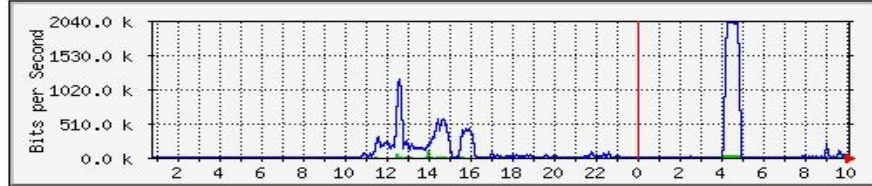
- Shifting the whole PUHEP network to ERNET 2Mbps network in the last week of March, 2007.
- username@puhep.res.in addresses are survived
- All Webservices reconfigured on main servers.
- Reverse entries are awaited in ERNET DNS, which is needed for the functioning of UI and other auto updates etc.
- ERNET DNSs/Network is slow to respond.



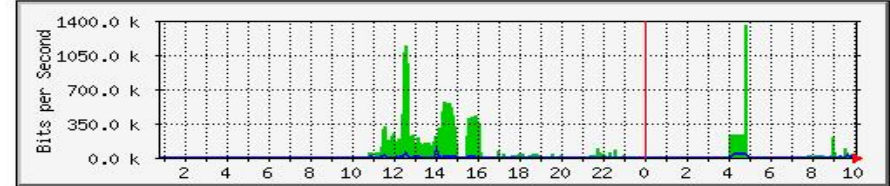
Monitoring Network



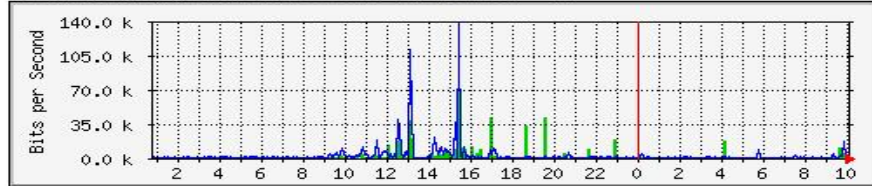
Traffic Analysis for LAN Port of -- Router



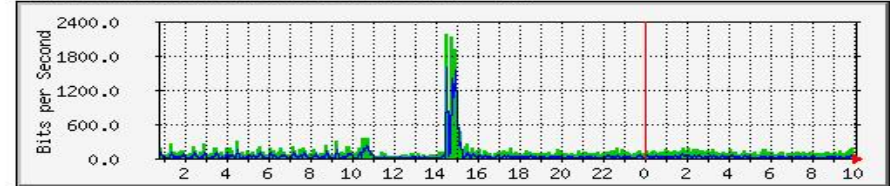
Traffic Analysis for WAN port of -- Router



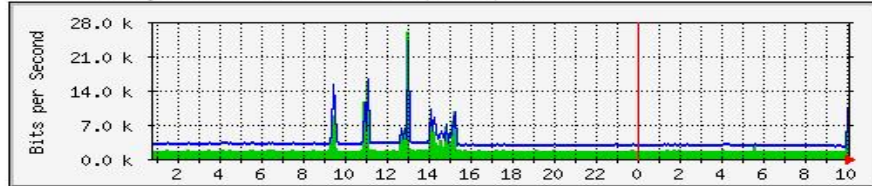
Traffic Analysis for Email/Web/DNS Server -- ns



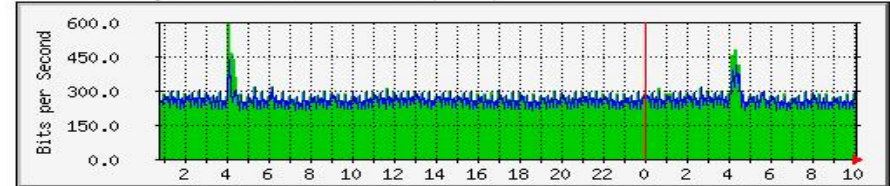
Traffic Analysis for SUN / DNS Server -- cms



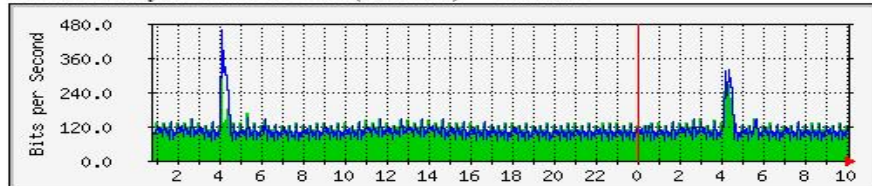
Traffic Analysis for PUSOFT Farm (WAN)-- cmslux



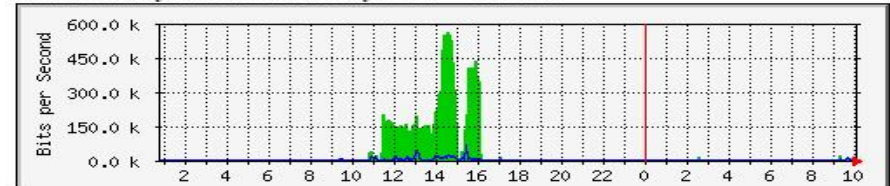
Traffic Analysis for PUSOFT Farm (LAN) -- cmslux



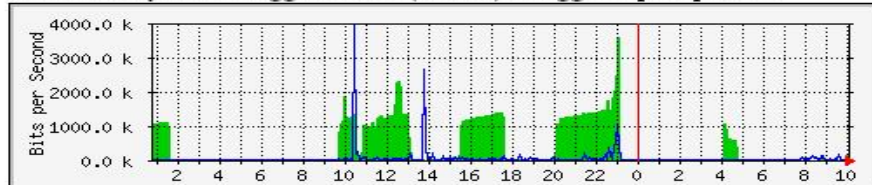
Traffic Analysis for PUSOFT (Internal) -- cmslux5



Traffic Analysis for Window System -- GEANT



Traffic Analysis for Higgs Cluster (Server) -- higgsino.puhep.res.in





Higgs Farm

- Higgs Cluster (CMS FARM@puhep)
 - SLC 3.0.8, NIS, webserver, Samba
(<http://higgsino.puhep.res.in/~username/>)
 - ~ 8 P3/P4 terminals on with NFS Storage ~1.8 TB, user quota managed.
 - CMSSW all versions updated (cmssw_1_2_3, cmssw_1_3_0) and checked.
 - Students are efficiently working on this new cluster.
 - SUN GridEngine



Grid Tier-3



- 2 Systems, IBM x226, CPU 2.4 GHz, 2 GB RAM, 1.2 TB Raid Storage
- x86_64, SLC 3.0.8,
- cmssw is being tested.
- User Interface (UI)



User Interface (PU)



- UI at Panjab being setup
 - Dedicated Server: Dual CPU Xeon, 3 GHz, 2GB
 - Runs SLC3.0.8 (SLC4 ?)
 - Middleware glite (glite-UI) installed
- Site configuration as per ASGC, Taiwan (earlier had CERN specific, RB, BDII, MON)
 - UI testing is being done
 - User accounts setup (access to LCG resources)
 - Access nodes being setup



Future Planning



- Rack Mounted CPUs
 - IBM and SUN, Optron Dual 2.4 GHz,
 - Sun StorEdge 3511, 2GB Cache, 5x500GB SATA Storage, HBA
 - cmssw on AT64 machines



Thanks

S. Gautam, Panjab University, Chandigarh, 5th April, 2007