

Fabric Group members (listed alphabetically by last name under group leader)

- Tony Wong (interim group leader)
 - Costin Caramarcu
 - Kevin Casella
 - Zhihua Dong (+)
 - Ethan Franco (*)
 - [Jerome Lauret]
 - Shigeki Misawa
 - Michael Poat
 - Tom Smith

+ = CSI staff member

* = student intern

[] = secondary group

Responsibilities

- Group's main responsibility is acquisition, installation, operations of computing resources at the facility
 - High-Throughput Computing (large footprint)
 - High-Performance Computing (much smaller footprint)
- Responsibilities also include:
 - Support for OS and other system-level software
 - Includes client-level 3rd-party software (ie, CVMFS, Lustre, dCache, etc)
 - Workload management (HTCondor, Slurm) software
 - CPU benchmarking (HEP-SCORE, Linpack, etc)
- Recently re-organized, expect some evolution of responsibilities

Current aggregate resources

- HTC
 - ~1900 servers with ~145k cores and ~1.9 MHS06
 - ~990 servers with ~61k cores and ~730 kHS06 for USATLAS
- HPC
 - ~100 servers with ~6.2k cores and ~100 kHS06

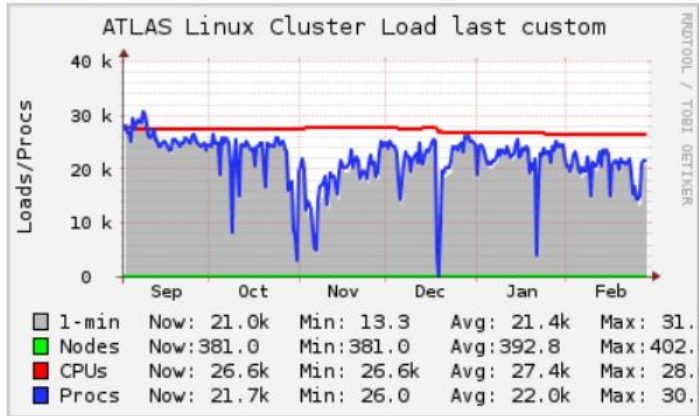
ATLAS Linux Cluster (physical view)

CPU
Total: **26560**
Hosts up: **380**
Hosts down: **1**

Current Load Avg
(15, 5, 1m):
98%, 98%, 98%

Avg Utilization (last custom):
90%

Localtime:
2024-03-18 22:34



Activities and (near-term) Priorities

- Higher priorities
 - Acquisition and deployment of sPHENIX resources
 - STAR, ATLAS Tier-1, Belle-II, LQCD, etc procurements will hitchhike on sPHENIX's procurements
 - Operational support for above core programs
 - Transition from SL7 to Alma9 (ATLAS Tier-1, then RHIC, then others)
 - Migration from HTCondor9,10 → HTCondor23 (after Alma9?)
 - Support for programs where above effort can be leveraged
 - EIC/ePIC computing activities
 - Baseline IC gen2 operations
 - SDCC-operated NSLS-II resources
- Lower priorities (this may change if more manpower is available)
 - non-X86 R&D (ARM, NVidia gpu's, etc)
 - USATLAS-Tier 3 and other AF activities (Jupyter, etc)
 - Other (ie, DUNE, NN, NE, SciServer, etc) resources managed by the SDCC
- Paused (subject to manpower availability) support
 - Resources outside of the SDCC data center(s) or requests that are orthogonal to (or duplicates of) SDCC existing services (Debian Linux, Ansible, VMWare, Globus, etc)
 - New (or newly proposed) activities to which the Fabrics group has not allocated effort
 - Existing activities not explicitly listed above

Network Section

- Organizationally in ITD (Information Technology Division) as a support organization for SDCC
- Responsible for LAN installation, operations and maintenance and also for WAN connectivity
- Members
 - Frank Burstein
 - Mark Lukasczyk

SDCC Facilities Operations

- Responsible for management and operations of data center infrastructure
 - Power
 - Cooling
 - Data Center floor space (hardware lifecycle management)
- Manages the new (Bldg. 725) and legacy (Bldg. 515) data centers
- Members (listed alphabetically by last name)
 - Imran Latif^{(+)(*)}
 - Naveed Anwer^(*)
 - Enrique Garcia
 - Al Maruf
 - John McCarthy

+ = section leader

* = CSI staff

Two job openings

- Replacing two key staff who left BNL last Fall
- Technology Architect
- Advanced Technology Engineer
- Contact me for more information if you know someone who may be interested