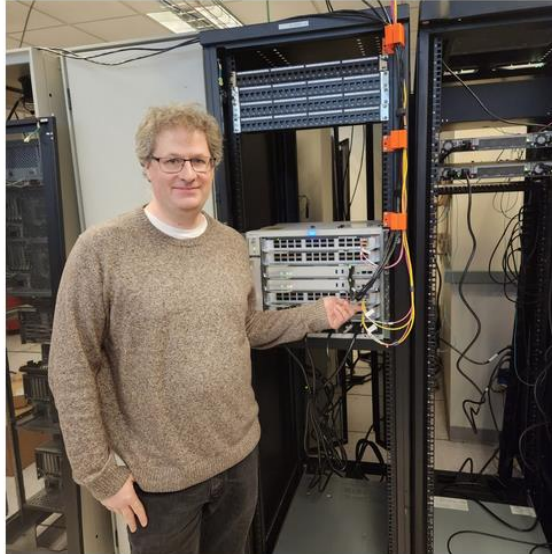


SubMIT News

Moving subMIT to 100 Gbit/sec all the way

by **Joshua Bendavid** – March 1, 2023



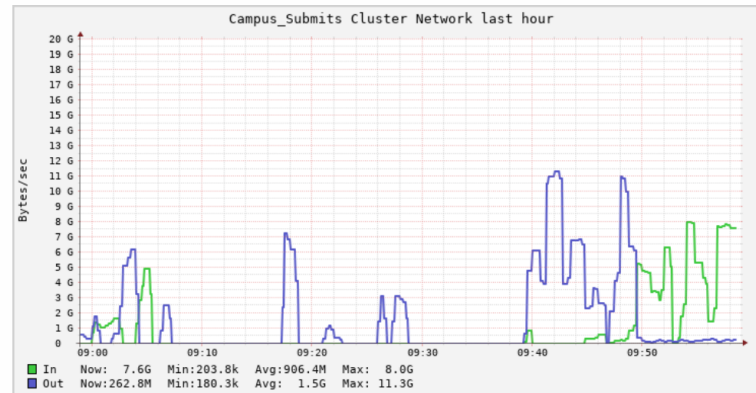
Dave and with yellow fibre incoming.

Dave and Paul received the 100 Gbit/sec yellow fibres from IS&T (left with Dave) and our subMIT switch is plugged in using the pink fibre (right with Zhangqier). The switch went smoothly on Tuesday (February 24, 2023).



Qier with pink fibre arriving.

Subsequent testing revealed node-to-node network throughput between Building 24 and Bates of up to 88 Gbit/sec (11 Gbytes/sec), approaching the wire speed limit.



Recent Developments

- Network upgrade
 - Working towards Alma Linux 9 upgrade
 - Testing
 - CentOS 7.9 container created (so users can still access old environment)
 - Expansion: addition of submit37
 - User request: submit gpu access via Slurm only
 - Eliminate conflict between interactive & batch use
 - Interactive use still available via Slurm (see User's Guide)
 - User request: add support for VPython on subMIT JupyterHub
 - Behind the scenes:
 - IPv4 -> IPv6 (dual stack: IPv4 still available)
 - Improved Monitoring (Prevent performance hits before they happen)
- ... and of course others not mentioned