



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 3-4 | Albuquerque, New Mexico

NSF Program: CC*DNI

Program Area:
Networking Infrastructure

Award Number: 1541252

Project Title:

Montana State University's
Bridger: A Science Driven
Networking Cyberinfrastructure

Project URL:

<http://www.montana.edu/uit/bridger/>

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Quad Chart for:

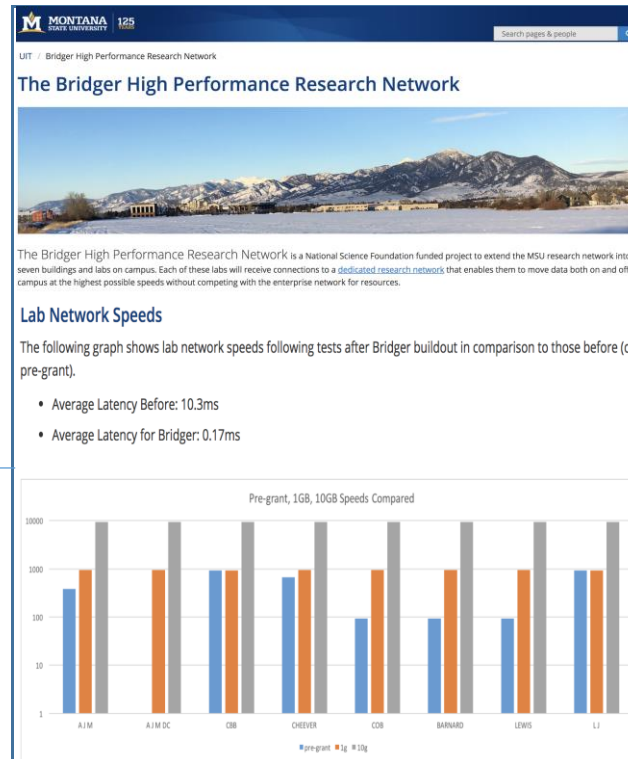
Montana State University's Bridger: A Science Driven Networking Cyberinfrastructure, Award #1541252

Challenges

- Develop and deploy a “purposed” “research network in seven data intensive science buildings with “Lean” CI resources (People, Time, Money)
- Engage a diverse group of scientific drivers with different data needs and understanding of high performance networking.
- Explore if scientific users will share their data for outreach.

Deliverables

- A simple network architecture that meets DMZ specifications and delivers near enterprise quality services.
- Globus endpoints built on FIONAs with back-end integration throughout the network
- “Best Practice” workflows that are amenable to use across scientific disciplines for data intensive science.



Scientific Impacts

- Increasing the pace of scientific discovery with accelerated data sharing.
- Exposure of data-intensive networking to novel areas of scientific outreach including film.
- The importance of backing up single copy scientific research among academic partners.
- Enabling new collaborations with the private sector.

Metadata

- <http://www.montana.edu/uit/bridger/>
- Globus URL <ftp://rci-dmz01.msu.montana.edu:2811>
- EPSCOR
- “Lean” Cyberinfrastructure
- Public/Private Partnerships for Developing Cyberinfrastructure
- CaRC
- Pacific Research Platform and the promise of the National Research Platform