

# SC16 Technical Program Workshop

## INDIS 2016:

Innovating the Network for Data-Intensive Science



# SC16

Salt Lake City, Utah | hpc matters.



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Argonne National Laboratory

November 13, 2016

Salt Lake City, UT

# Summary Highlights

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- Total WAN bandwidth delivered: 3.15 Tbps
- Total metro bandwidth delivered: 5.4 Tbps
- Routing and switching capacity: 14Tbps+
- 56 mi/90km of fiber deployed on exhibit floor
- Over \$32 million in loaned equipment
- Over 200 volunteers from over 18 countries
- 200+ SCinet Wireless Access Points configured
- 8 Distributed NOCs (DNOC) on exhibit floor
- 120 managed and 78 unmanaged switches



-  CenturyLink™
-  ESnet  
ENERGY SCIENCES NETWORK
-  INTERNET2
-  zayo



SCinet delivers the World to  
Salt Lake City for  SC16  
Salt Lake City, Utah hpc matters.

# What Good is SCinet?

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- Unrivaled International Networking Laboratory
  - Leading experts government, industry and academia
  - Diverse networking equipment
  - Innovative philosophy of advancing networking
- SC as a premier HPC, networking and storage conference
  - Rich technical program
  - Extensive exhibit component
  - Vendor, service provider and customer participation
  - Network Research Exhibition (NRE) demonstrations



# SCinet

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- Innovating for 26 years
  - Amazing transformations in networking with advances every year
  - Pursuing richer capabilities and more functionality in networking
  - SCinet 26.20
- Long History of Software Defined Networking
  - Database driven network design going back more than a decade
  - Auto routing infrastructure
  - Fully incorporated SDN advances and implementation
- Continued Exploration in this crucial time in networking development
- Provide a platform to herald the importance of network research