

## **High Performance Storage and Networking at the Oak Ridge National Laboratory**

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Abstract:

The Oak Ridge National Laboratory is home to one of the largest unclassified computing centers in the world. Computing services are provided on supercomputers from IBM, SGI and Compaq, each of which uses ORNL's High Performance Storage System (HPSS) to save results. Gigabit Ethernet, using jumbo frames, currently links the various entities. Gigabyte System Network (GSN) equipment, including an Essential switch, Genroco bridge and NICs for IBM, Compaq and SGI are in house and operational, although not yet in production use.

This presentation will provide further detail about the supercomputing and storage environment at ORNL and describe the Probe testbed in which storage and network technologies are studied. Specifics of testing of Gigabit Ethernet, FibreChannel and GSN technologies will be provided.

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