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Exa-Scale FSIO and Archive - Can we get there? Can we afford to?

Abstract: This talk will describe File Systems and I/O analysis done to plan for the anticipated DOE Exascale initiative, a prospective very large extreme scale supercomputing program being formulated by DOE Office of Science and DOE NNSA. An analysis of the costs of providing scalable File Systems and I/O for these future very large supercomputers will be examined in detail. Additionally, archiving of data in the Exascale era will be examined and issues regarding archive size and speed will be detailed.

Biography: Gary currently is the Deputy Division Leader of the High Performance Computing (HPC) Division at Los Alamos National Laboratory. As Deputy Division Leader, Gary is responsible for all aspects of High Performance Computing technologies at Los Alamos. Additionally, Gary is responsible for conducting and sponsoring R&D for keeping the new technology pipeline full to provide solutions to problems in the Lab's HPC environment. Additionally, Gary is the past national co-coordinator for the High End Computing Interagency Working Group (HECIWG) File Systems and I/O (FSIO) advisory team which guides and coordinates all government spending on HEC FSIO R&D.

Additionally, Gary is the Director of the Los Alamos Information Science and Technology Institute (ISTI), the LANL/UCSC Institute for Scientific Scalable Data Management, and the LANL/CMU Institute for Reliable High Performance Information Technology. He is also the LANL PI for the Petascale Data Storage Institute, a DOE SciDAC2 Institute.