Agenda

Study Center, Jemez/Cochiti Conference Rooms

Unclassified

August 2, 2012

Thursday, August 2, 2012

FACILITATOR: ***Carol Hogsett, High Performance Computing and Associate Directorate for Information Technology Student Liaison***

8:45 Institutes Welcome .....David L. Clark—Program Director, Institutes Office

8:50 Welcome / Overview ..... Gary Grider—Acting Division Leader, High Performance Computing

PRESENTATION SESSION 1: ***9:00—11:00 AM***

9:00 Building a Parallel Cloud Storage System Using OpenStack's Swift Object Store.....
.....Andrew Burns — New Mexico Institute of Mining and Technology
.....Kaleb Lora — University of Washington – Seattle
.....Esteban Martinez — University of New Mexico
.....Martel Shorter — Prairie View A&M University
Mentors: HB Chen, Parks Fields, and Benjamin McClelland, HPC-5; David Sherrill and Pamela Smith, HPC-3; Alfred Torrez, HPC-1

9:25 Applied Parallel Metadata Indexing .....Michael Jacobi — University of New Mexico
Mentors: Cody Scott and Aaron Torres, HPC-3

9:45 GlusterFS: One Storage Server to Rule Them All .....Eric Boyer — Michigan Technological University
.....Matthew Broomfield — New Mexico Institute of Mining and Technology
.....Terrell Perrotti — South Carolina State University
Mentors: David Kennel and Greg Lee, DCS-1

10:05 Break

10:20 Metadata Reduction in an Exascale File System.....Jun He — Illinois Institute of Technology
Mentors: Mike Lang and John Bent, HPC-5; and Aaron Torres, HPC-3

10:40 The Design and Implementation of a Multi-level Content-Addressable Checkpoint File System .....
.....Abhishek Kulkarni — Indiana University
Mentor: Michael Lang, HPC-5

POSTER SESSION - GALLERY: ***11:00—1:00 PM***

11:00 Student Poster Session – Light Refreshments Provided

1:00 Student Poster Session Concludes

PRESENTATION SESSION 2: ***1:00—3:35 PM***

1:00 iSSH vs. Auditd: Intrusion Detection in High Performance Computing ..... David Karns — New Mexico State University
..... Katy Protin — University of North Carolina at Chapel Hill
..... Justin Wolf — California State University
Mentors: Graham Van Heule, and Jim Williams, HPC-3; Alex Malin, HPC-DO

1:20 Stewardship of Resources in a Virtual Infrastructure ..... David Carlson — Lewis University
Mentor: Jeffery Click, NIE-IS

1:40 DHCP ..... Alexander Castillo — New Mexico State University
Mentor: Brenda Joyce, SAE-2

2:00 Scalable Node Monitoring ..... Alexander Drotar — University of Colorado - Boulder
..... Erin Quinn — Fairleigh Dickinson University
..... Landon Sutherland — New Mexico State University
Mentors: Mike Mason and Jon Bringhurst, HPC-3

2:20 Break

2:35 An Analysis of Source Tilting and Sub-cell Opacity Sampling for IMC ..... Ryan T. Wollaeger — University of Wisconsin, Madison
Mentor: Todd J. Urbatsch, CCS-2

2:55 Data-parallel Halo Finder Operator in PISTON ..... Wathsala Nayomi Widanagamaachchi — University of Utah
Mentor: Chris Sewell, CCS-7

3:15 Hard Disk/Solid State Drive Synergy in Support of Data-Intensive Computing ..... Ke Liu — Wayne State University
Mentor: Kei Davis, CCS-7

3:35 Event Concludes