

HEC FSIO Session 1b: Assisting with Standards, Research and Education Gaps Roadmap

James Nunez

August 2008

Presentations

- Lee Ward, Sandia National Lab
- Evan Felix, Pacific Northwest National Lab
- John Bent, Los Alamos National Lab

2007 Assisting with Standards, Research and Education

Area	FY07	FY 08	FY 09	FY 10	FY 11
Standards:					
POSIX HEC	PDSI UM CITI patch pushing/maintenance Revamp of manual pages	First Linux full patch set			
ANSI OBSD	V2 nearing publication	Some file system pilot test			
IETF <u>pNFS</u>	V 4.1 nearing pub Assistance in testing may be needed	Initial products			
Community Building	HEC FSIO 2007 HEC presence at FAST and IEEE MSST	HEC FSIO 2008 HEC presence at FAST and IEEE MSST	HEC FSIO 2009 HEC presence at FAST and IEEE MSST	HEC FSIO 2010 HEC presence at FAST and IEEE MSST	HEC FSIO 2011 HEC presence at FAST and IEEE MSST
Equipment	Incite and NSF Infra Need scale CS disruptive facility	Incite and NSF Infra Need scale CS disruptive facility	Incite and NSF Infra Need scale CS disruptive facility	Incite and NSF Infra Need scale CS disruptive facility	Incite and NSF Infra Need scale CS disruptive facility
Simulation Tools	<u>Ligon</u> PDSI Felix/Farber	<u>Ligon</u> PDSI Felix/Farber	<u>Ligon</u> PDSI Felix/Farber		
Education	LANL Institutes as one example PDSI	Other Institute like activities			
Research Data	Failure, usage, event data	Many more traces, FSSTATS, more disk failure data			

Assisting with Standards, Research and Education Gaps

- Standards
 - POSIX HEC Extensions
 - ANSI OBSD
 - IETF pNFS
- Community Building
- Equipment
- Simulation Tools
- Education
- Research Data