





















– the Unexpected

Glenn Moloney Australian High Energy Physics in WLCG and EGE









Australian High Energy Physic

















High Energy Physics on EGEE

Data management:

- Demonstrated data transfers at nominal rates:1.6 GB/s through File Transfer Service (FTS)
- 1 GB/s with real workloads
- 2 large experiments transferred >1 PB/month in 2006

Workload management

- CMS computing service challenge achieved 50k jobs/day
- CMS aim this year for 100k jobs/day; ATLAS for 60k

Reliability and availability

- Significant effort to ensure Tier 1 sites meet MoU commitments using site and service monitoring
- Grid is now the primary source of computing resources for experiments at CERN





Glob	Global ATLAS Computing Resource Requirements										
Worldwide Computing Resources for ATLAS:											
	Disk (TB) Tape (TB) CPU (Opteron 250)	2008 30,000 16,000 54,000	2009 45,000 29,000 88,000	2010 72,000 48,000 150,000							
 Distributed across: Tier 0 (CERN) 10 Tier 1 centres across the world 30 Tier 2 centres 											
 Australia has deployed a Tier 2 centre at the University of Melbourne 											
 Will become a Tier 2 Federation with partner resources at VPAC, AC3, SAPAC Supported by APAC National Grid program since 2004 											
	Australian High	Energy Physics	in WLCG and E	EGEE 27 J	une 2007 26						

Aust	Australian ATLAS Computing Service									
• Ta	Target Resources for Australian facility:									
	Disk (TB) CPU (Opteron 250	2007 30)) 40	<mark>2008</mark> 170 200	2009 280 300	2010 440 480					
 An average Tier 2/3 – to serve Australian ATLAS members Essential to ensure Australian researchers are competitive at the LHC Targets will be met by dedicated facility AND shared resources from partners; VPAC, AC3, SAPAC, 										
• Cu _ • Su	 Currently operating a Pilot Tier 2 service: Production Tier 2 Computing Service will be commissioned from July 2007: Supported by: 									
- ARC, DEST, APAC, UNIVERSITIES OF MELDOURNE and Sydney Glenn Moloney Australian High Energy Physics in WLCG and EGEE 27 June 2007 27										











