Computing Insight UK 2018 "Research Computing Delivers"

Wednesday 12 and Thursday 13 December 2018

Main Programme Session Themes





DAY 1 - Wednesday 12 December 2018

TIME	MAIN PROGRAMME	EXHIBITOR FORUM	BREAKOUT SESSIONS				
08:30 - 09:45	REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery)						
09:45 - 10:00	Welcome Tom Griffin (Director, Scientific Computing, STFC)						
10:00 - 10:30	Supporting and Developing Careers in HPC Simon Thompson (Birmingham University)		Power Al User Group				
0:30 - 11:00	Journeys in Research Computing, Genomics and Atmospheric Physics - Challenges, Successes and Lessons Learnt Man-Suen Chan (Oxford University)	HPC in the Cloud Dairsie Latimer (Red Oak Consulting) Interconnect topology considerations applied to applications and	10:00: Welcome 10:15: Use case 1 10:30: Deploying PowerAl in HPC 11:15: Break 11:30: Use case 2 11:45: Using PowerAl				
1:00 - 11:30	REFRESHMENTS - Sponsored By	BASTON Servers Storage Solutions					
1:30 - 12:00	The image analyst under the microscope Leila Muresan (Cambridge University)	Artificial Intelligence in 15 minutes or less Matt Armstrong (Hewlett Packard Enterprise) BeeGFS for different I/O profiles Marco Merkel (ThinkParQ)	12:15: Close				
12:00 - 12:30	Reflections on a career in computing, from teletypes and card decks to a modern University Research Computing service Paul Hatton (University of Birmingham)	Lean Composites Manufacturing through Machine Learning Nathan Harper (CFMS) Technical challenges of complex workloads and how to tackle them					
2:30 - 13:00	, , ,	Sven Oehme (DDN)					
3:00 - 13:30	LUNCH - Sponsored Bv						
3:30 - 14:00	Orchestrating a brighter world	EXHIBITION OPEN					
4:00 - 14:30	NEC						
4:30 - 15:00	JASMIN – On the road to high performance software defined object stores Jonathan Churchill (STFC)	Tuning I/O and sizing storage for the cloud: a case study Rosemary Francis (Ellexus) Project JASMIN at Rutherford Appleton Laboratories					
.5:00 - 15:30	Realising HPC Performance and Agility in Private Cloud - A Case Study Stig Telfer (StackHPC Ltd)	Alex Oldfield (Caringo) From Terabytes to Petabytes: How to address the new challenges of data protection? Herve Collard (Atempo) The Atos Quantum Learning Machine Emily Barrett (Atos)	Spectrum Scale User Group #SSUG				
5:30 - 16:00	Arm Developments in HPC Oliver Perks (ARM)	Cray HPC Storage Solutions Torben Kling Petersen (Cray) How To Build A Storage Appliance That's Cooler Than A Dog Jason van der Schyff (SoftIron)	What's new in 5.2.0, Daniel Kidger (IBM) Understanding Memory usage in Spectrum Scale [Deep dive technical session], Tomer Perry (IBM)				
6:00 - 16:30	Liverpool University - Stepping to Hybrid HPC. The Barkla Cluster & Cloud	Is Cloud The Next Disruption in HPC? Graham Russell (Rescale) Redefining Memory and Storage	 Data management with Spectrum Discover and Spectrum Scale, Indulis Bernsteins (IBM) Customer Talk TBC 				
L6:30 - 17:00	Cliff Addison (Liverpool University) REFRESHMENTS - Sponsored By	BASTON Servers Storage Solutions	Optimizing storage stacks for AI [Deep dive technical session], Sven Oehme (DDN)				
17:00 - 17:30	Application Performance on Multi-Core Processors						
17:30 - 18:00	Martyn Guest (ARCCA, Cardiff University)						
8:00 - 18:30	Director High Bod	Keynote Presentation - Fred Streitz	lational Laboratory				
8:30 - 19:00	Director, High Performance Computing Innovation Center, Lawrence Livermore National Laboratory "Machine Learning and Predictive Simulation: HPC and the U.S. Cancer Moonshot"						
9:00 - 19:30							
9:30 - 20:00	NETWORKING RECEPTION AND ST	UDENT POSTER SESSION - Sponsored By					
0:00 - 20:30	NETWORKING RECEPTION AND STUDENT POSTER SESSION - Sponsored By Bee						
0:30 - 21:00							

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DAY 2 - Thursday 13 December 2018

TIME	MAIN PROGRAMME	EXHIBITOR FORUM	BREAKOUT SESSIONS				
08:30 - 09:00	REGISTRATION OPEN (Main Foyer) EXHIBITION OPEN (Gallery)						
09:00 - 09:30	REGISTR	(Gallery)					
09:30 - 10:00	The emergence of AI and HPC: a new hybrid architecture for high performance data analytics Andy Grant (Atos)	GenZ - the future of composable computing. What it might mean for HPC Steve Smith (Dell)					
10:00 - 10:30	Building A Collaborative Clinical Genomics Service Jon Lockley (Cancer Research)	Lights-Out Operations: How to Manage Unified HPC Storage Infrastructures with Quobyte Matthias Grawinkel (Quobyte) Next-Generation Vector Computing with NEC SX Aurora TSUBASA Oliver Tennert (NEC)					
10:30 - 11:00	Mo' cores, mo' problems? Exascale, accelerators and the CASTEP code Phil Hasnip (York University)	Moving HPC to the Cloud Angel Caballero (UNIVA) Why Scale-Out POSIX File Systems are Important Troy Alexander (Qumulo)					
11:00 - 11:30	REFRESHMENTS - Sponsored By	Mellanox Mellanox	NVIDIA Deep Learning Institute				
11:30 - 12:00	Authentication and authorisation infrastructure (AAI) for medical research computing Callum Smith (Oxford University)	ClusterVision Development Roadmap: Cluster Management, Cloud, and HPC Storage Heather Stephens (ClusterVision) The Arm HPC Ecosystem in 2018 Mark Clarke (ARM)	NVIDIA Deep Learning Institute (DLI) workshops, hosted by Boston, offer hands-on training for developers, data				
12:00 - 12:30	The movement towards HPC inclusivity – Case Studies in Cloud HPC Cristin Merritt (Alces Flight)	Lessons learned from HPC: The dark art of moving bottlenecks around systems architectures David Power (Boston) A fault-tolerant implementation of Software-Defined Storage Markku Räsänen (Tuxera)	scientists, and researchers looking to solve challenging problems with deep learning. Through self-paced labs and instructor-led workshops,				
12:30 - 13:00	LUNCH - Sponsored By	EXHIBITION OPEN	the Deep Learning Institute teaches the latest				
13:00 - 13:30		Student poster competition presentation	techniques for designing, architecting, and deploying neural network-powered machine learning across a				
13:30 - 14:00	Atos	on BeeGFS stand at 13:45	variety of application domains.				
14:00 - 14:30	Flash in HPC – Separating Facts from Fiction Torben Kling Petersen (Cray)	Huawei advancements in the HPC hardware space Mark Allsopp (Huawei) Delivering cloud computing as a service in a research environment –	Students of the DLI will explore widely used open- source frameworks and NVIDIA's latest GPU-				
	Torsen King receiser (cray)	Case Study Andrew Dean (OCF) Alces Flight: On-Demand HPC	accelerated deep learning platforms. Boston are pleased to be DLI Delivery Partners providing training				
14:30 - 15:00	Artificial Intelligence at the Edge Peter Beckman (Argonne National Laboratory)	Wil Mayers (Alces Flight) Accelerating Data Intensive Applications with Shared NVMe Storage	globally.				
15:00 - 15:30	Technical Challenges of Complex Workloads and How to Tackle Them Sven Oehme (DDN)	Ziv Serlin (e8 Storage) Architecture of a Next-Generation Object Storage Device in the Panasas Filesystem Curtis Anderson (Panasas) How Verne Global is providing industrial scale HPC and GPU as a Service for the UK Research community from Iceland Spencer Lamb (Verne Global)					
15:30 - 16:00	Extreme-scaling on Omni-Path fabric: performance for computational astrochemistry David Benoit (Hull)						
16:00	CIUK 2018 CLOSES						



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