

Welcome



Who are the Cray Centre of Excellence

- **We are four Cray staff embedded on site with EPCC to support the HECToR and ARCHER services and CRESTA research**
 - Jason Beech-Brandt (jason@cray.com)
 - Tom Edwards (tedwards@cray.com)
 - Alistair Hart (ahart@cray.com)
 - Harvey Richardson (harveyr@cray.com)
- **Focused on supporting users at application level**
 - Providing training to users
 - Engage with user groups on short, targeted projects
 - Porting UM to Interlagos
 - Adding IO Servers to HELIUM.
 - Providing 2nd tier support for Cray software on HECToR

Agenda



	Tuesday 28th January	Wednesday 29th January
9:00	Registration and Welcome	Understanding MPI on Cray XC30
9:30	Cray XC30 Architecture Overview	Practical Session
10:00	Cray Programming Environment	Load Balance and Rank Placement
10:30	Practical Session	Practical Session
11:00	Coffee	Coffee
11:30	Preparing Applications for the Cray XC30	Performance Analysis: Single Node
12:00	Using Compilers on the Cray XC30	Single-node Optimization Techniques
12:30	Practical Session	Practical Session
13:00	Lunch	Lunch
14:00	Advanced Application Placement	Short Intro to Debug tools
14:30	Practical Session	Optimising I/O on Cray XC30
15:00	Tea/Coffee	Tea/Coffee
15:30	Introduction to Performance Analysis	Live demonstration of Reveal
16:00	Cray Scientific Libraries Overview	Practical Session
16:30	Summary	Conclusions
17:00	Practical Session	Practical Session
17:30	Close	Close