

ARCHER CHAMPIONS

16TH / 17TH MARCH 2016

David Henty, HPC Training



EPCC Training

- Active since Cray T3D service in 1994

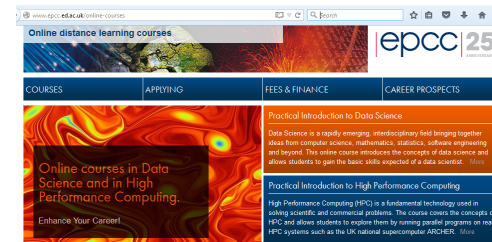
MSc in HPC
(2001)



PRACE Advanced
Training Centre
(2012)



ARCHER (2013)



Accredited online
courses (2016)



ARCHER Programme

- Per year
 - 66 days face-to-face
 - 12 online virtual tutorials
- In 2015
 - Hubs at Edinburgh, London, N8 and Southampton
 - approx 50% courses also part of PATC programme
 - free to all academics
 - PATC courses free to all

Location	#courses	#days
Edinburgh	8	15
London	6	13
Southampton	3	8
N8	7	14
Oxford	2	4
Bristol	2	4
Glasgow	1	3
Portsmouth	1	3



2015 Courses

Course	Number of runs	Course-days
Message-Passing Programming with MPI	4	12
Software Carpentry	3	7
Fortran 95	2	4
Hands on Intro to HPC	2	4
Shared-Memory Programming with OpenMP	2	4
Materials Modelling	1	3
Threaded Programming	1	3
Accelerator Programming	1	2
Advanced MPI	1	2
Advanced OpenMP	1	2
Data Carpentry	1	2
Data Storage and Management	1	2
Efficient Parallel IO on ARCHER	1	2
HPC Tools	1	2
Multicore Programming	1	2
Performance Programming	1	2
PGAS Programming	1	2
Practical Software Development	1	2
Programming the Xeon Phi	1	2
Scientific Computing	1	2
Scientific Python	1	2
GPU programming with CUDA	1	1



Annual Process

- Discuss requirements with hubs and other centres
 - propose training programme
 - approved by external training panel
 - all material archived on web after delivery
- Possibility of developing new courses
 - New in 2015:
 - Data Carpentry, Data Storage and Management, Practical Software Development, Scientific Python
 - New in 2016
 - Data Analytics, OO Programming in Fortran, Intermediate MPI



Your Input

- Collaborative courses
 - exploiting local expertise
- Train-the-trainers
 - developing local expertise
- Co-location
 - aligning dates / locations with other events
- Topics
 - what do your users want to know?





EPSRC

NERC SCIENCE OF THE ENVIRONMENT

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