

ARCHER Training Courses

General Overview



EPSRC



NERC SCIENCE OF THE ENVIRONMENT



archer



CRAY
THE SUPERCOMPUTER COMPANY



epcc



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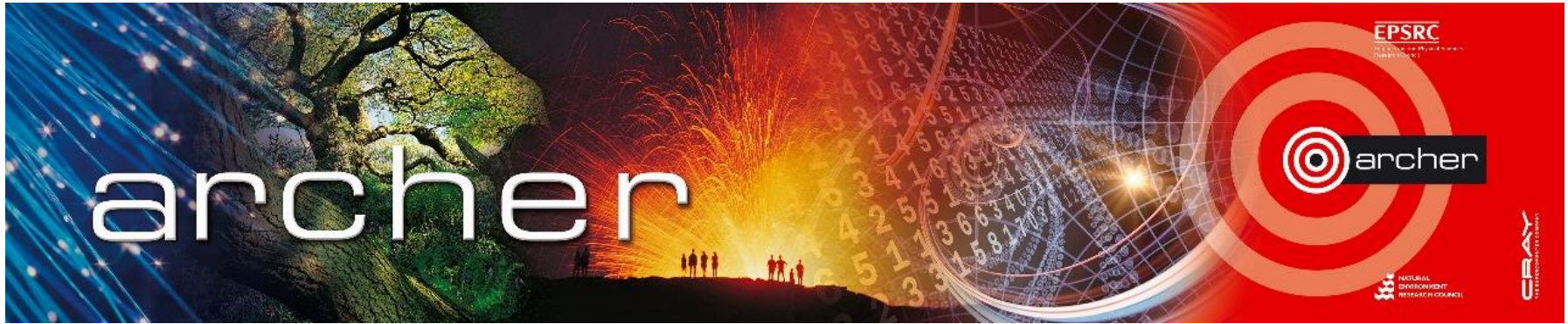
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- UK National Supercomputer Service, managed by EPSRC
 - housed, operated and supported by EPCC
 - hardware Supplied by Cray
- Training provided by the ARCHER Computational Science and Engineering (CSE) support team
 - 72 days per year at various locations round the UK
 - free to all academics



EPCC's Advanced Computing Facility



What is EPCC?

- UK national supercomputer centre
 - founded in 1990 (originally Edinburgh Parallel Computing Centre)
 - a self-funding Centre at The University of Edinburgh
 - running national parallel systems since Cray T3D in 1994
 - around 90 full-time staff (and growing!)
 - a range of academic research and commercial projects
 - one-year postgraduate masters in HPC www.epcc.ed.ac.uk/msc/
- Get in contact if you want to collaborate
 - many staff are named RAs on research grants
 - joint research proposals
 - European project consortia



Key ARCHER Resources

- Upcoming courses
 - <http://www.archer.ac.uk/training/>
- Material from past courses
 - http://www.archer.ac.uk/training/past_courses.php
- Virtual tutorials (online)
 - <http://www.archer.ac.uk/training/virtual/>
- Documentation
 - <http://www.archer.ac.uk/documentation/>



Who am I?

Oliver Brown o.brown@epcc.ed.ac.uk

- Applications Developer at EPCC
 - Currently two *main* projects: EPiGRAM-HS and HiLeMMS
 - Previously: INTERTWinE
 - Teaching on MSc: Message-Passing Programming, Data Analytics with HPC, dissertation supervision
 - Personal Tutor on DSTI program
 - ARCHER helpdesk operator
 - ISO9001 and ISO27001 auditor



Other Resources

- Please fill in the feedback form!
 - <http://www.archer.ac.uk/training/feedback/>
- General enquiries about ARCHER go to the helpdesk
 - support@archer.ac.uk
- EPCC runs one-year taught postgraduate masters courses
 - ***MSc in HPC*** and ***MSc in HPC with Data Science***
 - awarded by the University of Edinburgh since 2001
 - scholarships available
 - <http://www.epcc.ed.ac.uk/msc/>



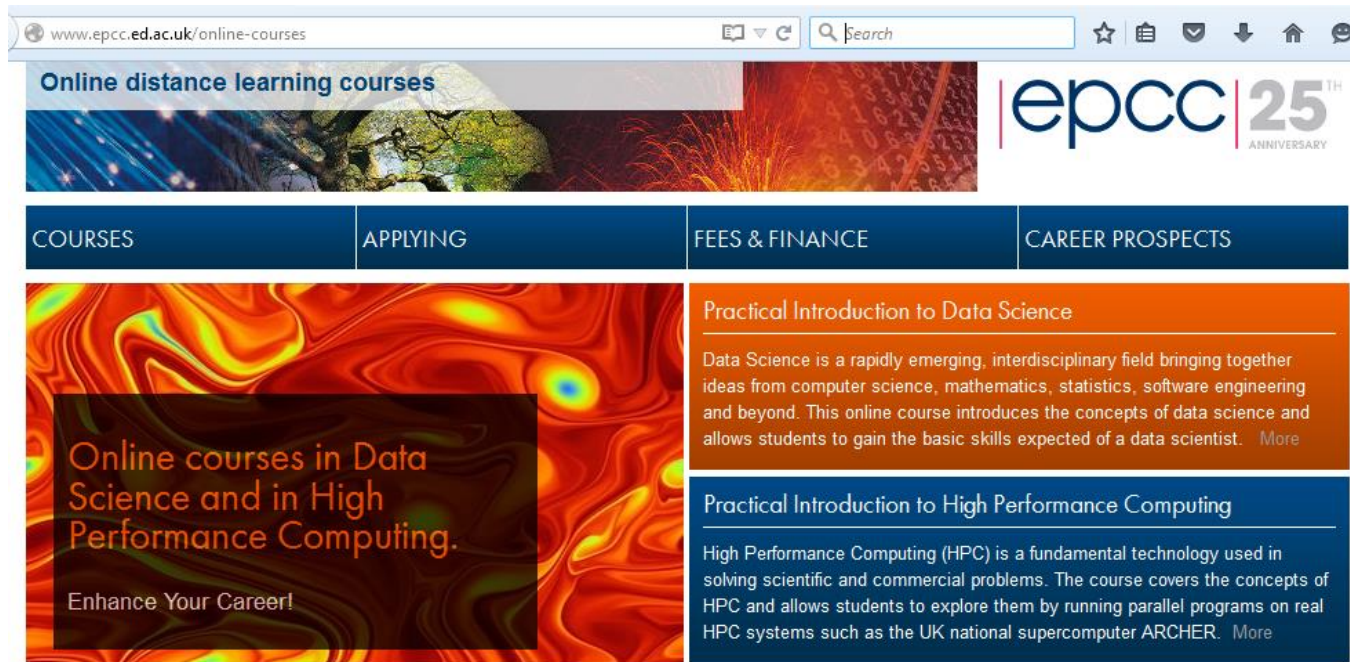
MSc in HPC / HPC with Data Science



- taught by EPCC staff (plus options in Informatics, Maths, Physics, ...)
- 12 taught courses (8 months); research dissertation (4 months)



Online accredited courses



The screenshot shows the website www.epcc.ed.ac.uk/online-courses. The page features a navigation menu with links for COURSES, APPLYING, FEES & FINANCE, and CAREER PROSPECTS. A prominent banner advertises "Online courses in Data Science and in High Performance Computing" with the tagline "Enhance Your Career!". Below this, two course listings are visible: "Practical Introduction to Data Science" and "Practical Introduction to High Performance Computing". The website also includes a search bar and a 25th Anniversary logo for EPCC.

- Run from January to May
 - entirely online: www.epcc.ed.ac.uk/online-courses/.
 - each course is 20 credits (c.f. a 180-credit MSc)



Access to Cirrus (during course)

- Guest accounts for duration of course
 - should only be used in the classroom
- Accounts will be closed immediately after the course
 - all files etc. will be deleted
- Take copies of all your work before course ends!
- Course materials (slides, exercises etc.) available from course web page
 - archived on ARCHER web pages for future reference



Access to Cirrus (longer term)

- Several ways to access Cirrus both for industry and academia
- All require justification of resources (Technical Assessment)
- <http://www.cirrus.ac.uk/access/>

