Hands-on introduction to HPC for life scientists

- PRACE & BioExcel

Center of Excellence for Computational Biomolecular Research

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EMBL-EBI

Training and Dissemination
Activity: Human barometer

Have you ever been to Edinburgh before?

1 – No first time ever, London is the furthest North I generally go
2
3
4
5 – I grew up here
* – Wildcard - Where is Edinburgh, aren’t we in London?
How familiar are you with Linux?
What is your programming expertise?
Have you attended any previous courses dedicated to HPC (or with a large HPC component)?
How freaked out are you about the prospect of working in an HPC environment
How much support do you have in your home institute?
Have you used an HPC machine before?
Do you know how to gain access to time on an HPC machine?
# BioExcel Competency Profile

Group related competencies together into areas

<table>
<thead>
<tr>
<th>Generic Computing</th>
<th>Scientific Computing</th>
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<tr>
<th>Generic</th>
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<th>Parallel Computing</th>
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Parallel Computing Competencies

• Assess computational workflow systems and their potential benefits
• Apply knowledge of batch system
• Write computer programs that can run on a parallel computer
• Assess advantages and limitations for deploying, executing and optimising computations in a cloud/grid/HPC environment
• Apply knowledge of performance profiling to measure suitability of computing platforms
Activity - Benchmarking

How are your skills developing over time?

- Pre-course
- Post-course
- 6 – 12 months

Note:
- Survey in email also rates generic computing Competencies
- Link to full profile
Assess computational workflow systems and their potential benefits
Apply knowledge of batch system
Write computer programs that can run on a parallel computer.
Assess advantages and limitations for deploying, executing and optimising computations in a cloud/grid/HPC environment
Apply knowledge of performance profiling to measure suitability of computing platforms
Competency rating after the course

Please fill following survey
- Generic Computing Competencies (8)
- Parallel Computing Competencies (5)

https://www.surveymonkey.com/r/HPCBioExcel
How to get in touch with us

www.bioexcel.eu

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Thank you!