Novel Approaches to HPC User Engagement

Clair Barrass and David Henty

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Funding

- Thanks to
- ARCHER project
- PRACE via the EU's Horizon 2020 Research and Innovation Programme (2014-2020) under grant agreements 653838 and 730913.

Novel approaches to HPC user engagement

- Outreach
- Driving Test
- Training
- Impact

Outreach

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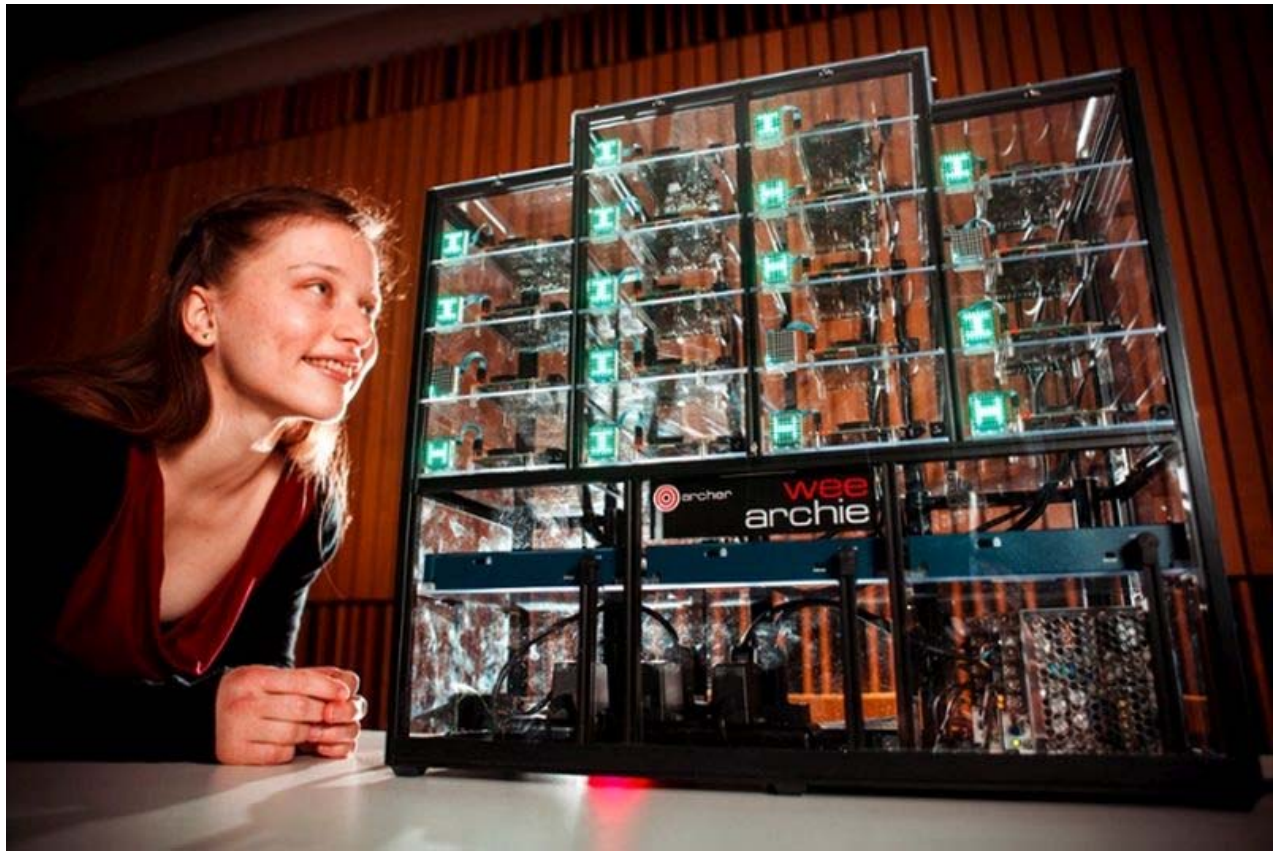
Outreach

- Wee Archie
- Build your own Supercomputer app
- Champions
- Image competition and calendar

Wee ARCHIE



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Wee ARCHIE

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Bean-Bag Sorting

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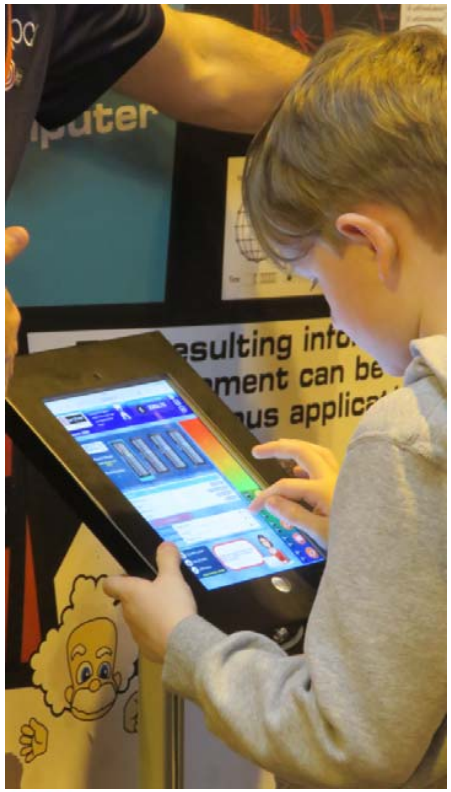
Build your own Supercomputer app



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Champions

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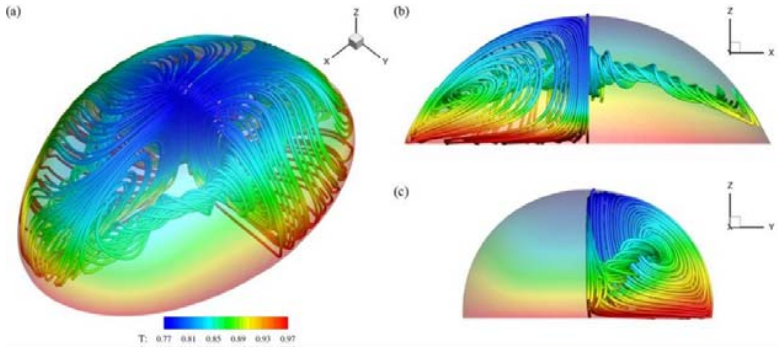
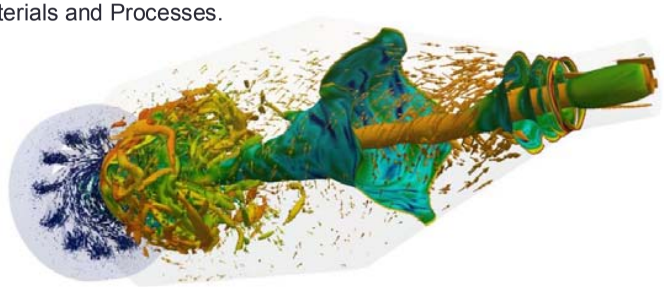
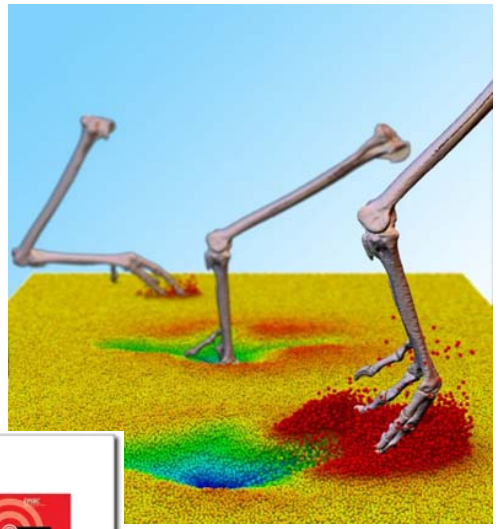
Image competition and calendar



Winning image 2014 : Dr Pedro J. Sáenz, University of Edinburgh Institute for Materials and Processes.



Winning image 2015 : Mr Ivan Langella, University of Cambridge, Department of Engineering.



Winning image 2016 : Dr Peter Falkingham, Natural Sciences & Psychology, Liverpool John Moores University.

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Driving Test

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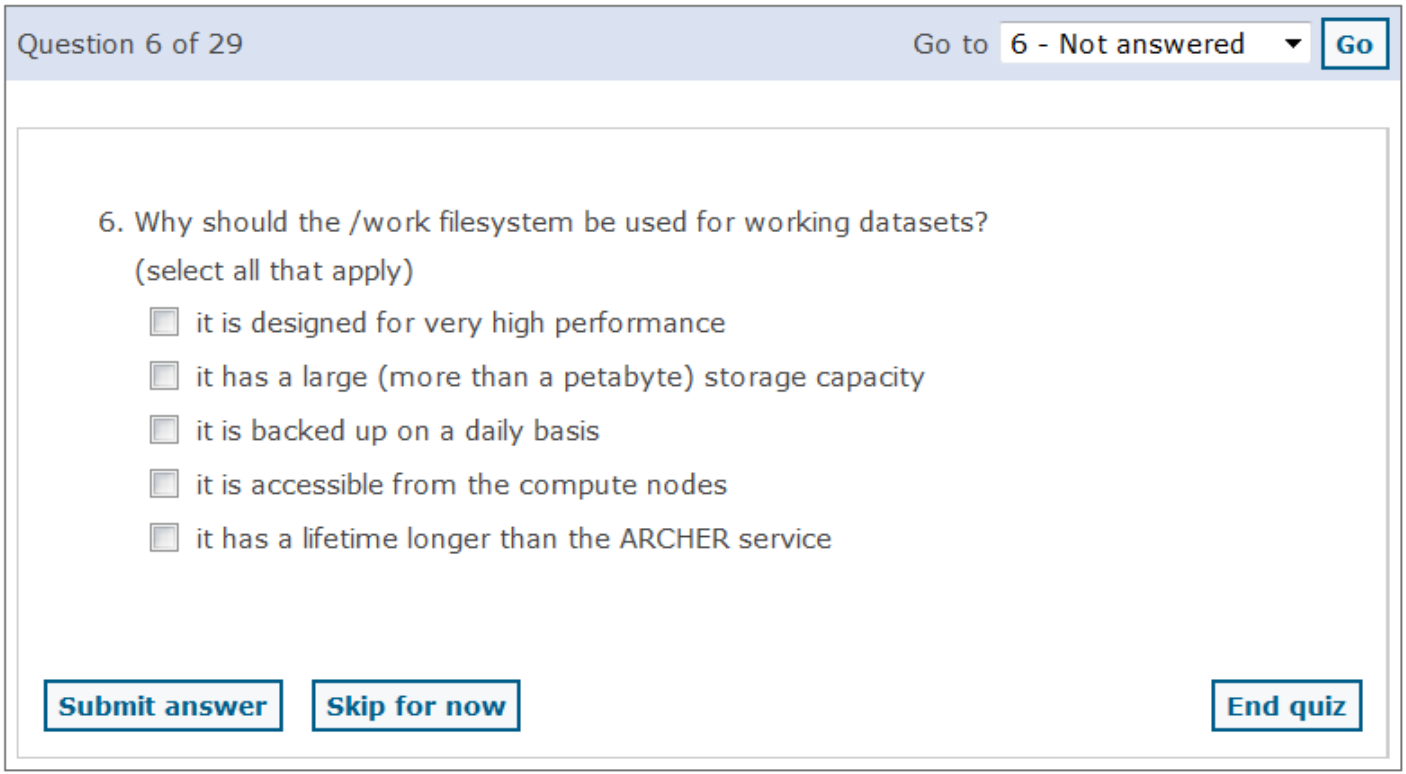
Driving Test



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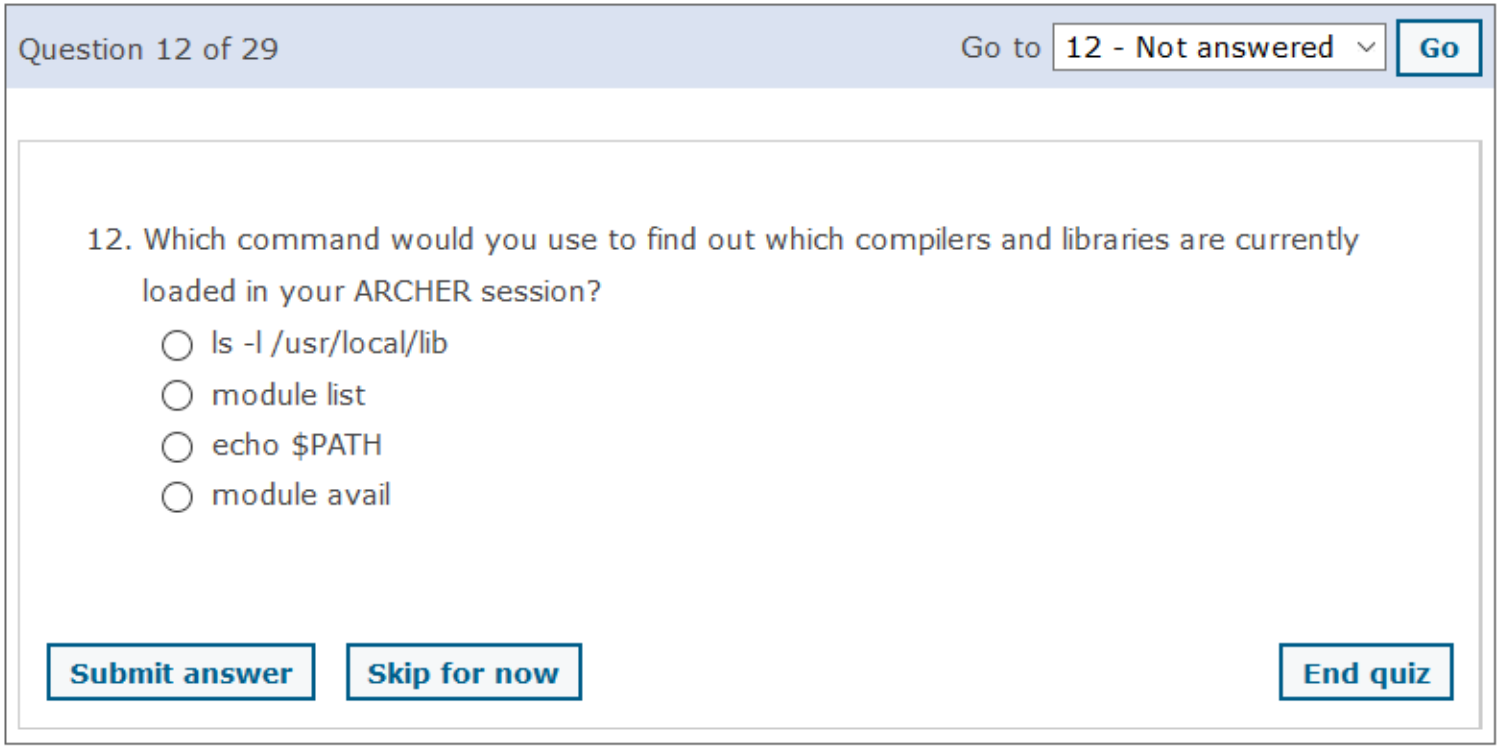
Driving Test



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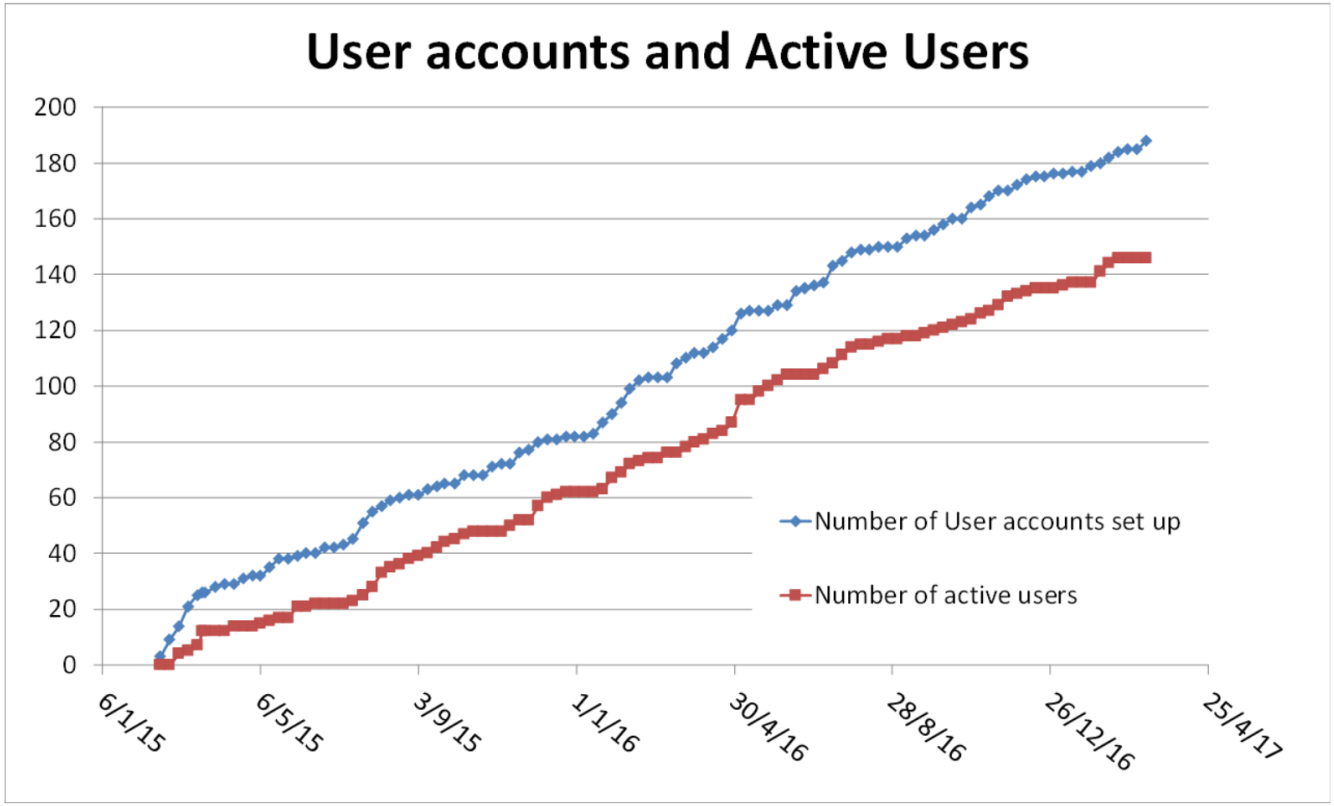
Driving Test



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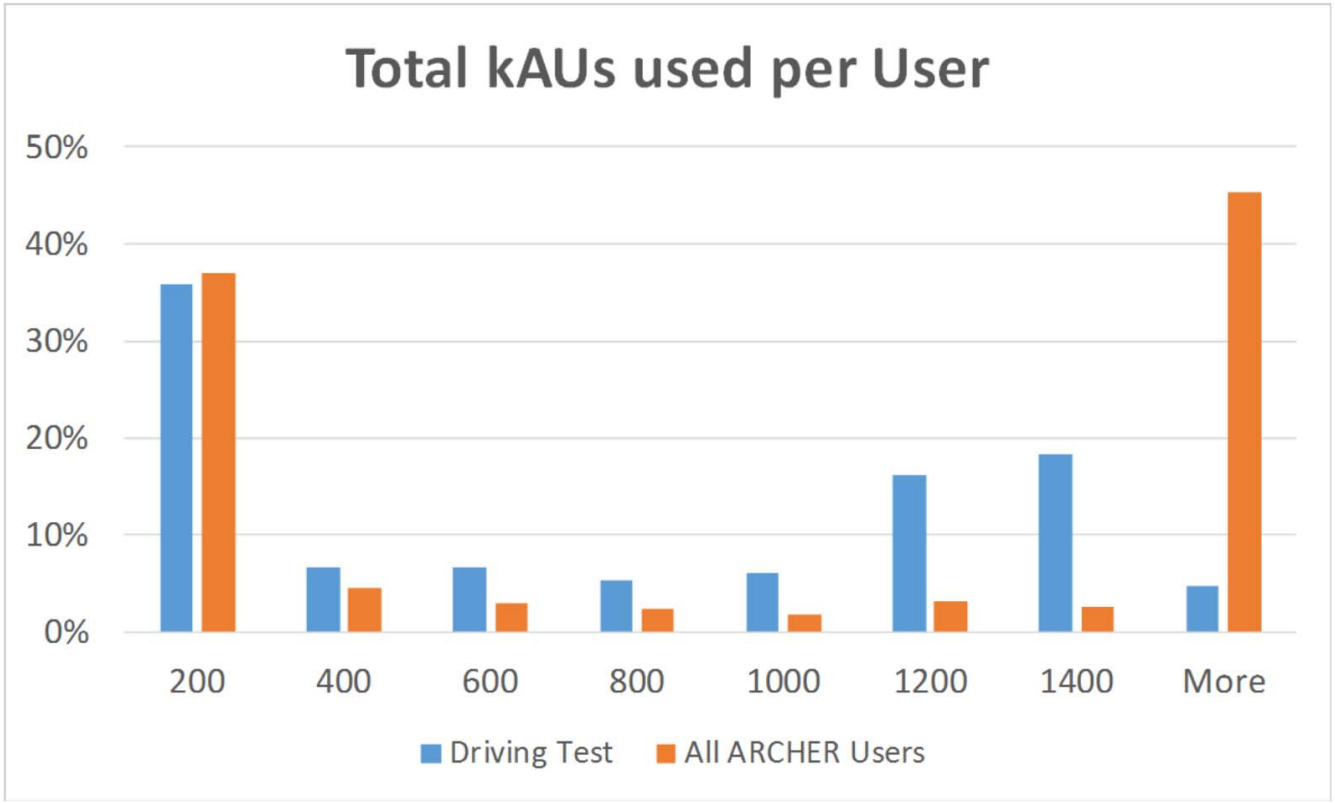

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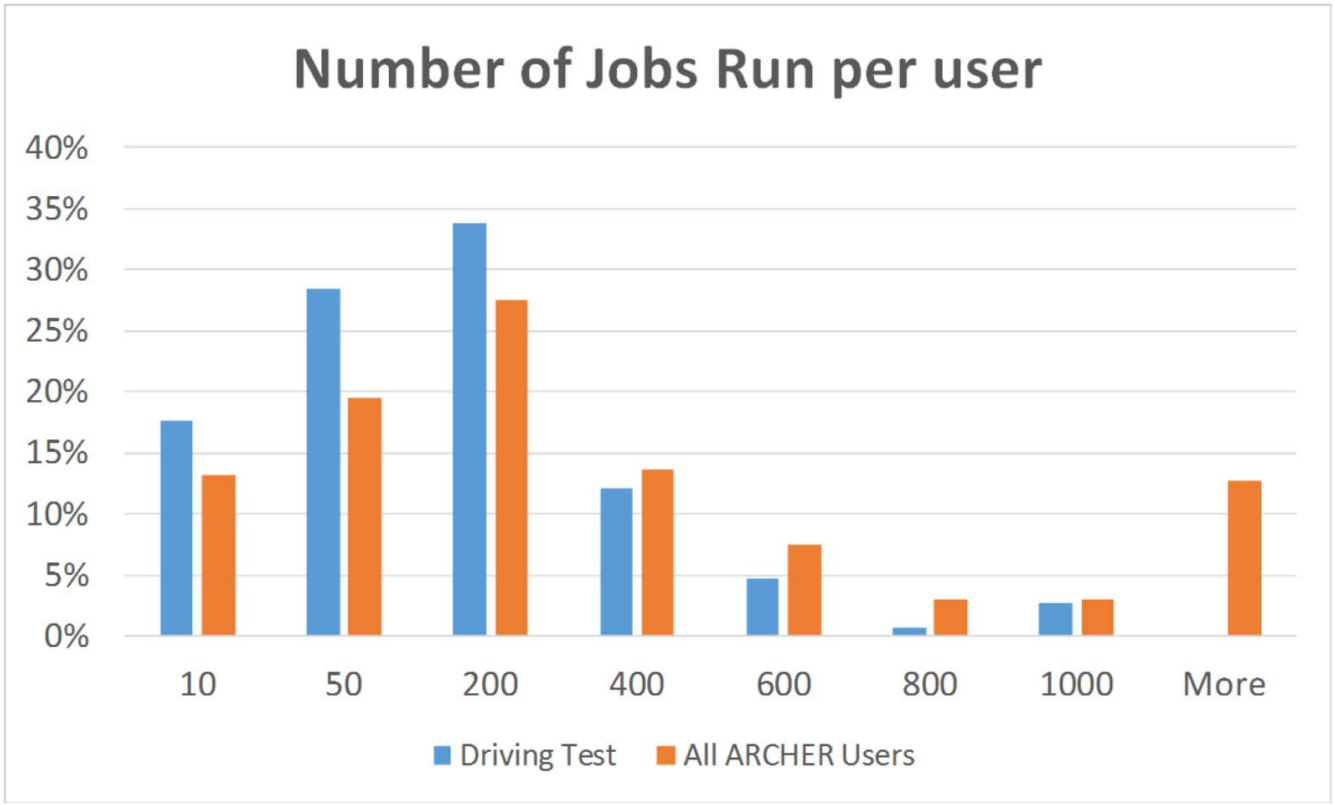

Training

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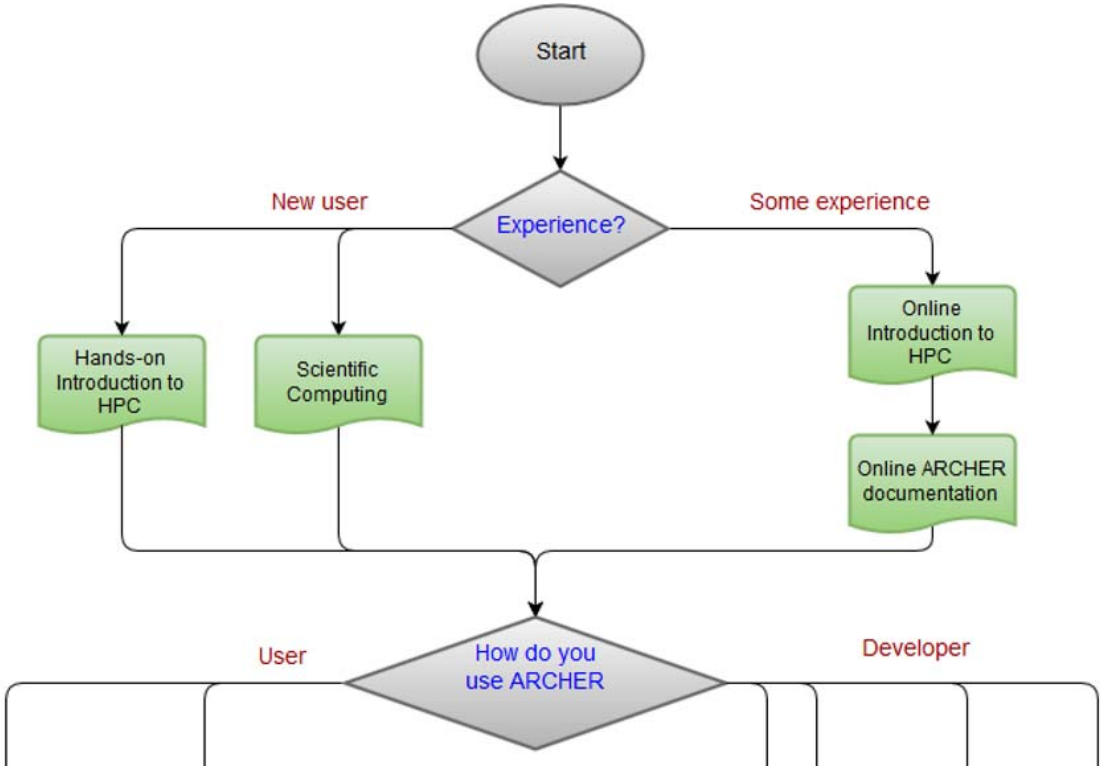

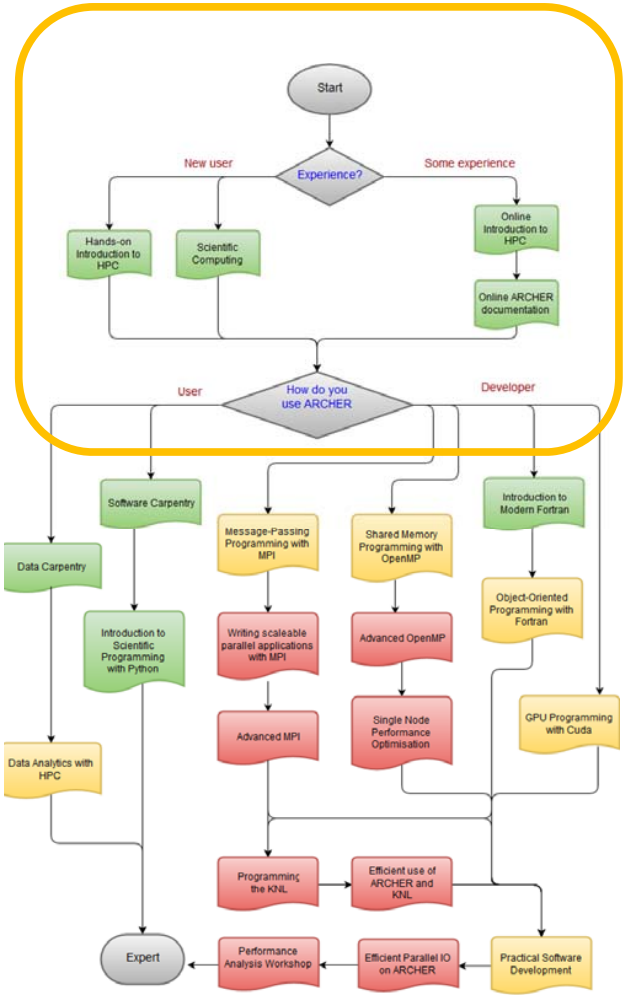

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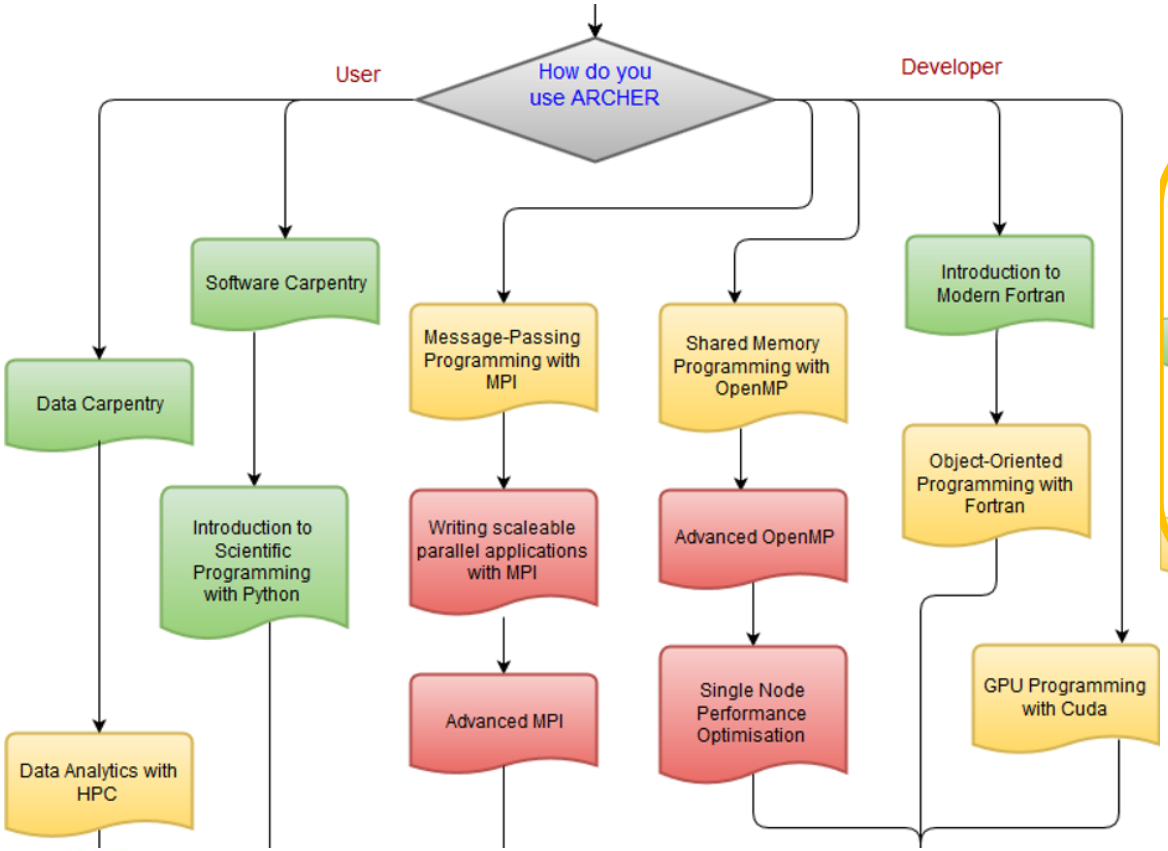

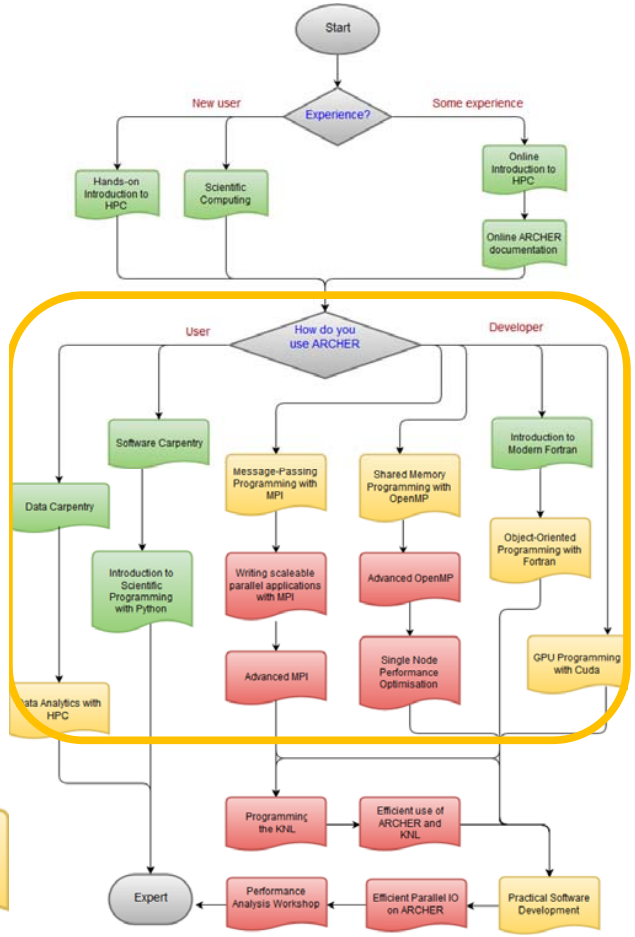

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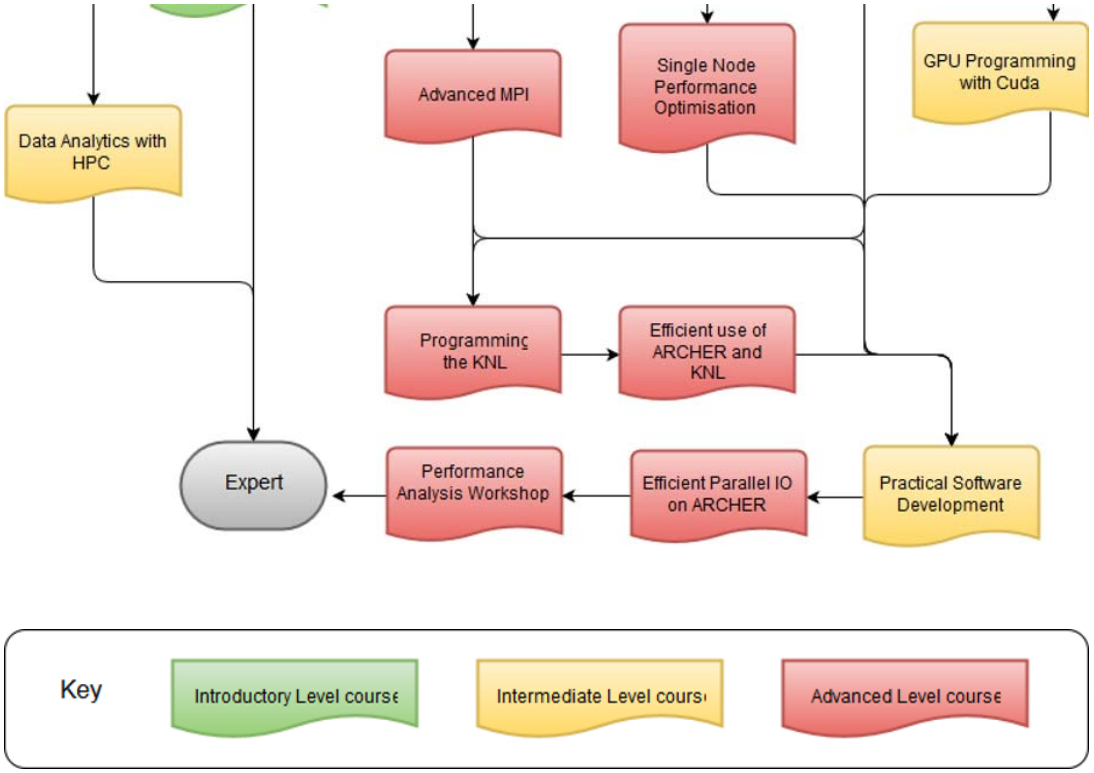

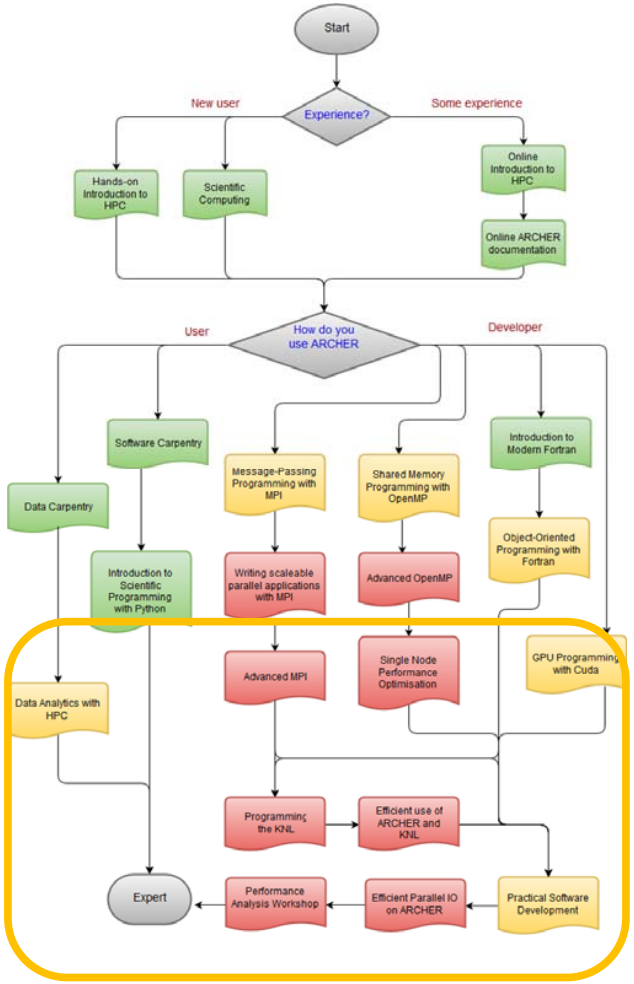

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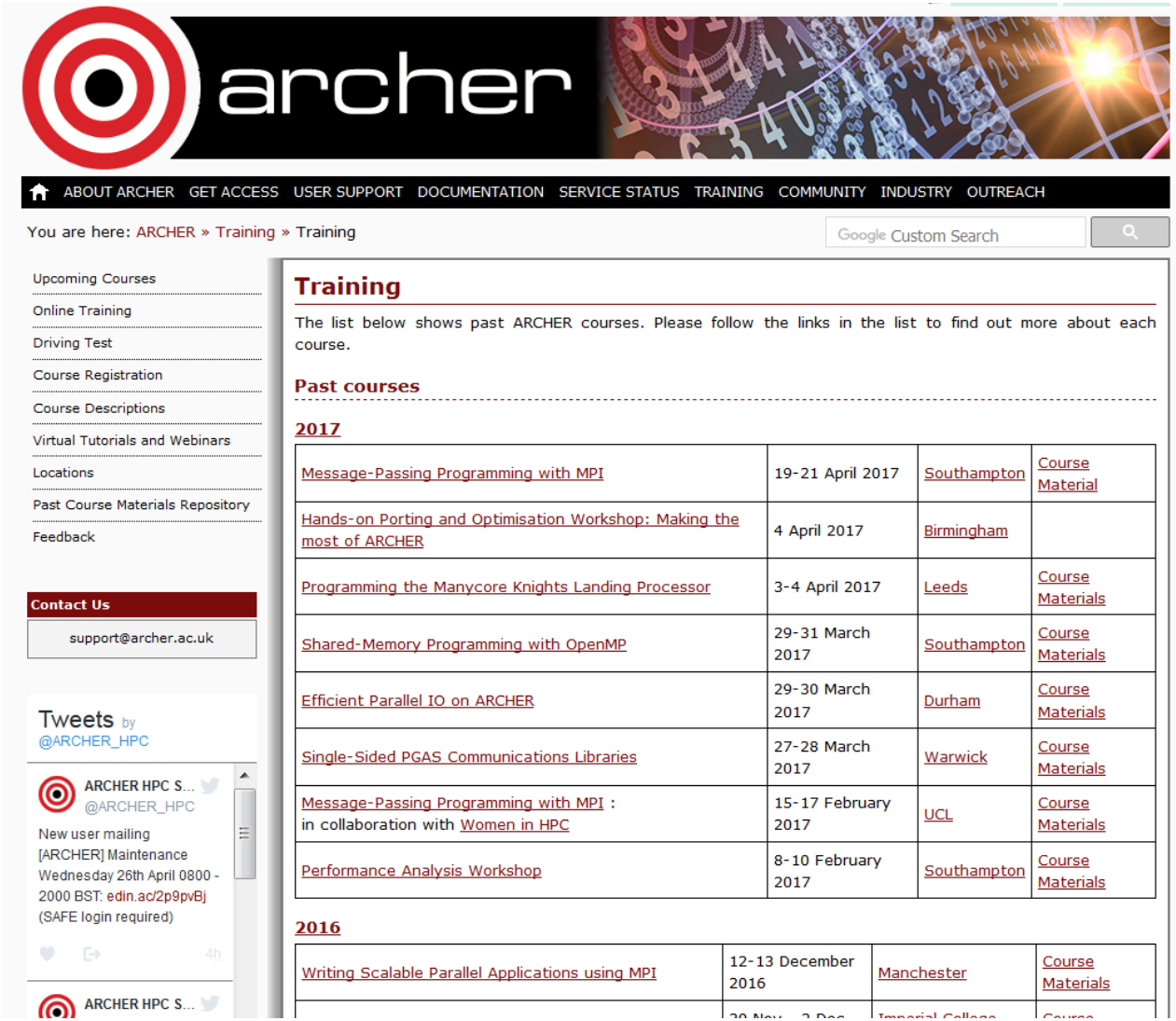

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New user mailing [ARCHER] Maintenance Wednesday 26th April 0800 - 2000 BST: edin.ac/2p9pvBj (SAFE login required)

4h

ARCHER HPC S...

Training

The list below shows past ARCHER courses. Please follow the links in the list to find out more about each course.

Past courses

2017

Message-Passing Programming with MPI	19-21 April 2017	Southampton	Course Material
Hands-on Porting and Optimisation Workshop: Making the most of ARCHER	4 April 2017	Birmingham	
Programming the Manycore Knights Landing Processor	3-4 April 2017	Leeds	Course Materials
Shared-Memory Programming with OpenMP	29-31 March 2017	Southampton	Course Materials
Efficient Parallel IO on ARCHER	29-30 March 2017	Durham	Course Materials
Single-Sided PGAS Communications Libraries	27-28 March 2017	Warwick	Course Materials
Message-Passing Programming with MPI : in collaboration with Women in HPC	15-17 February 2017	UCL	Course Materials
Performance Analysis Workshop	8-10 February 2017	Southampton	Course Materials

2016

Writing Scalable Parallel Applications using MPI	12-13 December 2016	Manchester	Course Materials

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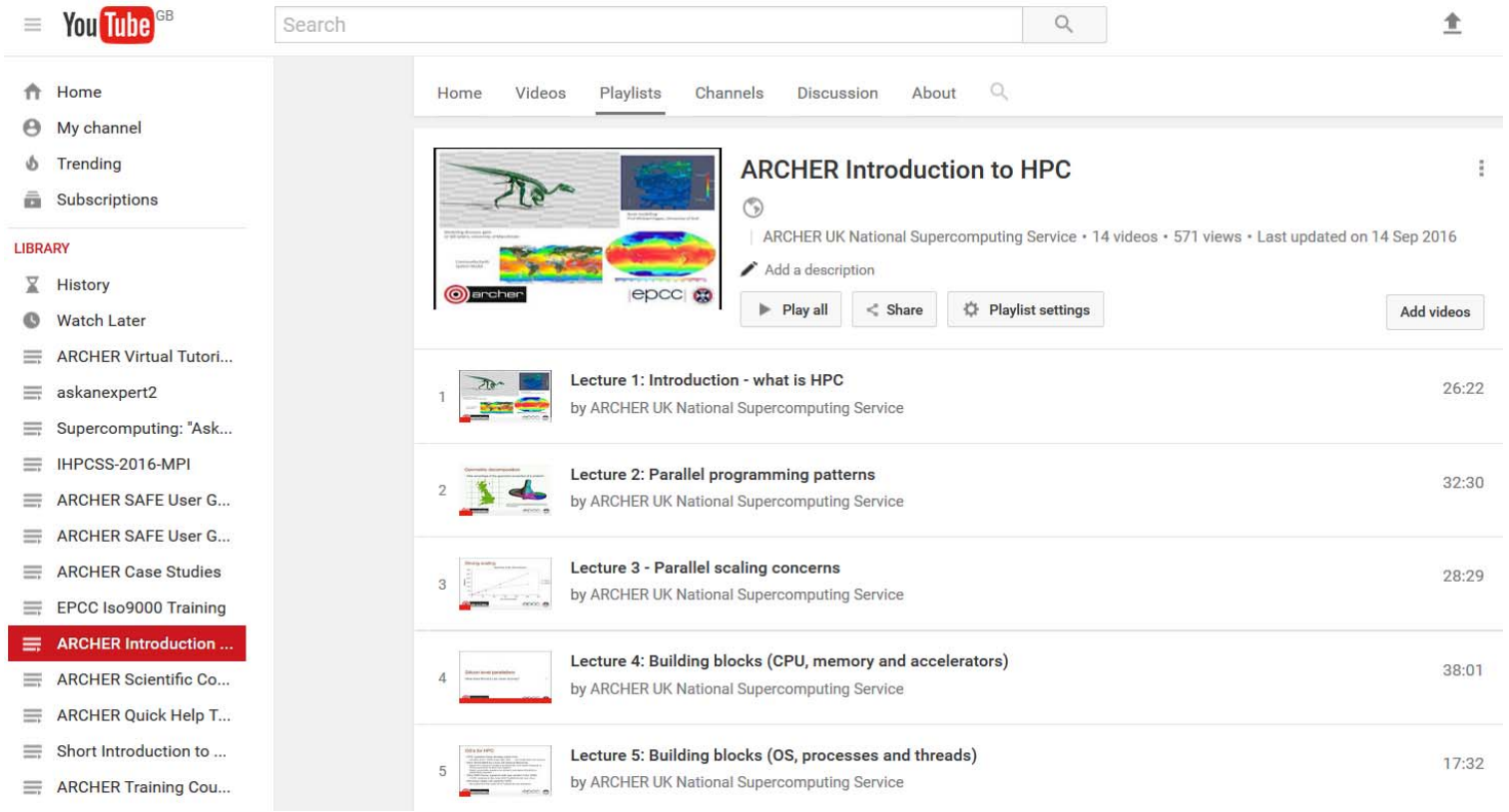

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Training

Registering, logging in, passwords

How to register on SAFE

1. Go to the SAFE New User Signup Form 
2. Fill in your personal details. You can come back later and change them if you wish
3. Click "Submit"
4. You are now registered. Your SAFE password will be emailed to the email address you provided. You can then login with that email address and password

At this point your account is registered on the SAFE but you do not have a machine account for ARCHER. To obtain a machine account on ARCHER you require a *Project Code* and a *Project Password* (if required). Your project's PI or Project Manager should be able to supply you with these details.
Once you have them you should:

1. Log into SAFE
2. On the Main page, click the "Request New Account" button.
3. Select the correct project from the drop down list
4. Enter the correct project password for the project you have selected.

How to login to SAFE and Overview of Main Page

1. Go to the SAFE https://www.archer.ac.uk/safe/ 
2. Type in the email address you have registered with
3. Type in your SAFE password

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Impact

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- Kirkpatrick Model

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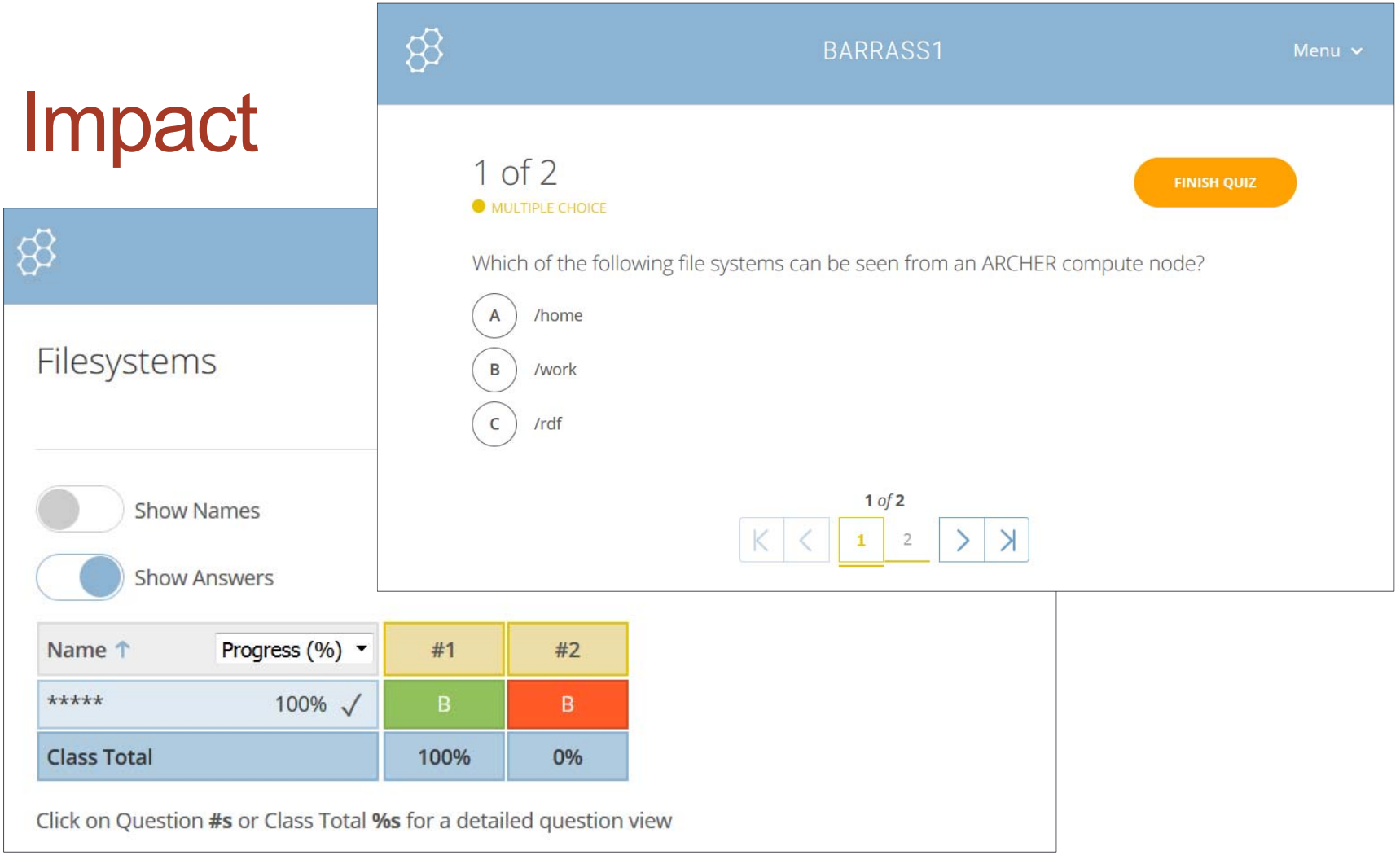

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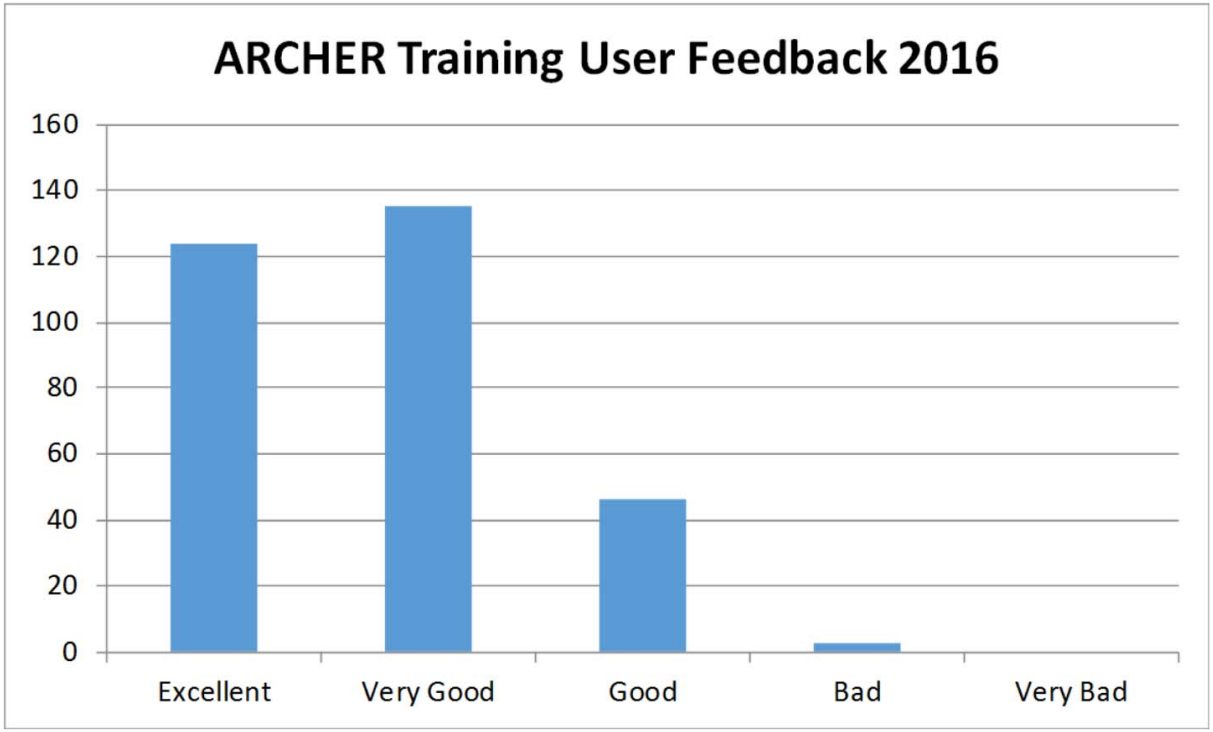
Impact


Level 1
Reaction
Level 2
Learning
Level 3
Behavior
Level 4
Results


ARCHER Training User Feedback 2016
160
140
120
100
80
60
40
20
0
Excellent
Very Good
Good
Bad
Very Bad

Impact

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Impact


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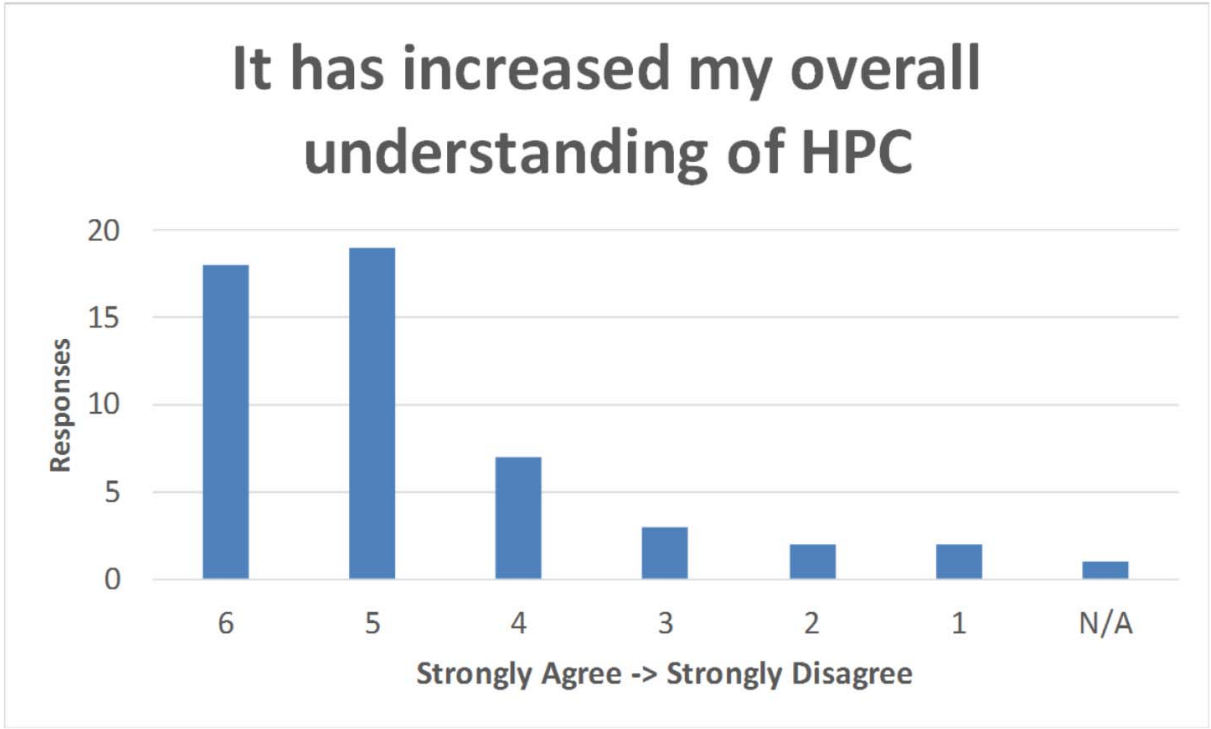
It has increased my overall understanding of HPC
Responses
20
15
10
5
0
6
5
4
3
2
1
N/A
Strongly Agree -> Strongly Disagree

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Novel approaches to HPC user engagement

- Outreach
- Driving Test
- Training
- Impact

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