ARCHER CHAMPIONS
OUTREACH AND ENGAGEMENT
16TH MARCH 2016

Toni Collis, ARCHER Outreach

Engaging the next generation of supercomputer users

- The ARCHER Outreach project (EPSRC grant EP/N006321/1) aims to promote HPC through engaging new communities (e.g. ARCHER Champions), promote diversity and to engage the next generation

- 'Traditional' outreach activities to the general public (adults and children) are a core part of our activities.

How do you reach and engage with an entire generation?

….Answer!

- Attend large events (e.g. Science Festivals)

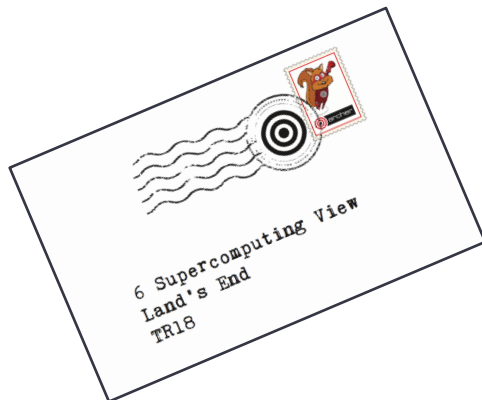- You create a national network of outreach ambassadors

The Big Bang
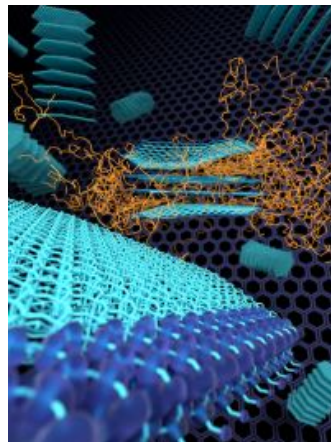UK Young Scientists & Engineers Fair

- Annual celebration of STEM for young people
- Over 70,000 visitors over 4 days at NEC
- Primarily 7-19 year old
- ARCHER has a booth there this week!

6 Supercomputing View
Land's End
TR18

archer

epcc|25

Power Usage
10.39 KWatts (1.65 PUE)

Running Jobs
1

Cabinet	1
Performance	70 GFLOPS
Power	10.39 kW (1.65 PUE)
Interconnect	Ethernet (50%)
Cooling	Fan (35%)

Add node

Budget node

LEVEL PROGRESS: 46%

Local HPC centre
70 GFLOPS
1238
Click here for details

Your job queue is getting quite long, try adding more nodes to run more jobs and/or jobs faster

MEM
CPU
MEM
CPU
MEM
CPU

Outreach Ambassadors

- A program to encourage the UK HPC community to engage in outreach

- Minimise the barriers to getting involved in outreach activities
  - Provide pre-packaged activities to download and training
  - Designed to be cheap to implement with clear educational outcomes

- Encourage HPC users to consider talking about supercomputers and HPC at outreach events in addition to their science
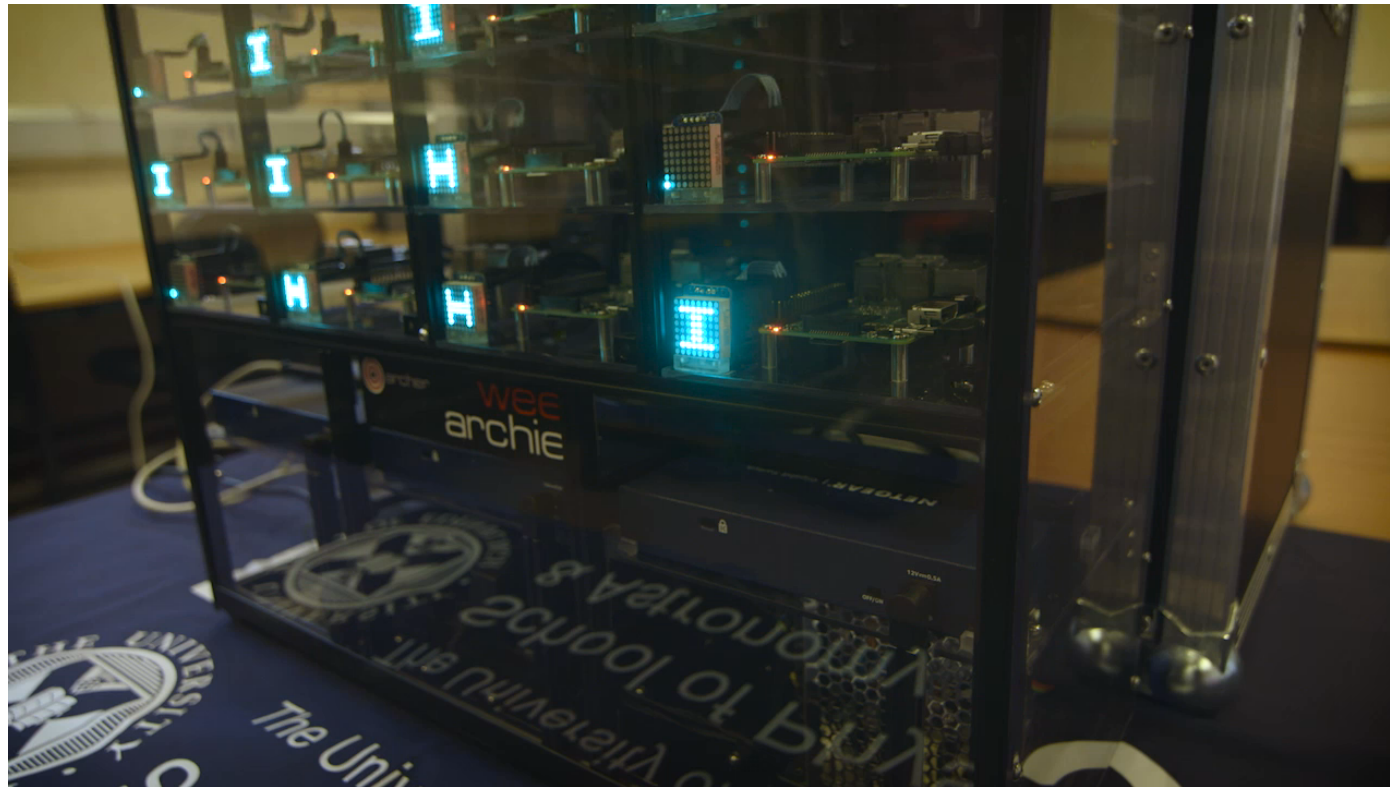
Our activities

- Post sorting: *how the post office uses sorting algorithms*
- Towers of Hanoi: *what is an algorithm*
- Design a Supercomputer: *an online game designing and running a supercomputer*

And much more:

Colouring sheets, Wee ARCHIE, Ball sorting, using HPC to simulate dinosaur gait

Taking supercomputers to the public

Build your own supercomputer here:
bit.do/archerapp

http://www.archer.ac.uk
support@archer.ac.uk