



- Getting Access
- TA Form and Notes
- kAU Calculator
- Cost of Access

Contact Us

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Tweets by @ARCHER_HPC



New user mailing [ARCHER] UKRI ARCHER2 Weekly Progress Update: edin.ac/2W7hez3 (SAFE login required)

Dec 11, 2020



New user mailing [ARCHER] Free ARCHER2 Introductory Courses this week 28-30 October 2020: edin.ac/34x9MIA (SAFE login required)

Oct 28, 2020



Free online course "ARCHER2 for software package users". 30 Oct, 10:00-16:00. Further details can be found here: archer2.ac.uk/training/#upco...



ARCHER kAU Calculator

This page helps you to calculate the values you need to fill in the [ARCHER Technical Assessment Form](#).

To use the calculator simply fill in the values in the input section and the remaining entries will be calculated automatically. You do not need to fill in all the fields if you are not interested in that section.

Anywhere you see a [?] you can click for help with that section.

To reset the form, please reload the page.

Input section

Select funding body [?]:

Select ARCHER Hardware Phase [?]:

	Largest Job	Typical Job	Smallest Job
Number of nodes [?]	<input type="text" value="48"/>	<input type="text" value="48"/>	<input type="text" value="48"/>
Number of cores used per node [?]	<input type="text" value="24"/>	<input type="text" value="24"/>	<input type="text" value="24"/>
Wallclock time for each job (hours) [?]	<input type="text" value="20"/>	<input type="text" value="20"/>	<input type="text" value="20"/>
Number of jobs of this type [?]	<input type="text" value="28"/>	<input type="text" value="28"/>	<input type="text" value="28"/>

Job Data

The information in this table can be used to help fill in the table in Section 1, Part 4 of the ARCHER Technical Assessment form. (You will also need some data from the fields you have filled in above.)

	Largest Job	Typical Job	Smallest Job
Total memory required (per job)	3072 GB	3072 GB	3072 GB
Total time for these jobs (hours)	560	560	560

Additional Job Data

The information in this table is not needed for the ARCHER Technical Assessment form but may be useful.

	Largest Job	Typical Job	Smallest Job
Cores (per job) [?]	1152	1152	1152
kAUs (per job) [?]	345.600	345.600	345.600
Notional cost (per job) (£)	193.54	193.54	193.54

Totals

This is information on the total kAUs and notional cost of the current job specification. It is useful for filling out Section 1, Part 4 of the ARCHER Technical Assessment Form and also for the cost associated with ARCHER use in the Je-S submission system.

Total 'Computing Resource (kAU)' for these jobs = 29,030.400
Total 'Notional Costs' for these jobs = £16,257.36

kAU Rates and Costs

ARCHER XC30 kAU Rates

Phase	kAUs/Core Hour	Cores Per Node	kAUs/Node Hour
Phase 2 XC30 (Nov 2014 -)	0.015	24	0.36
Phase 1 XC30 (Nov 2013 - Nov 2014)	0.015	24	0.36

Costs per kAU for Partner Research Councils

Phase	Cost/kAU (£)
Phase 2 XC30 (Nov 2014 -)	0.56
Phase 1 XC30 (Nov 2013 - Nov 2014)	0.76

Costs per kAU for other Research Councils

Phase	Cost/kAU (£)
Phase 2 XC30 (Nov 2014 -)	1.33
Phase 1 XC30 (Nov 2013 - Nov 2014)	1.64

Hardware Layout by Phase

ARCHER XC30

Phase	Nodes	Cores Per Node	Memory Per Node (GB)	Max Nodes Per Job	Max Job Time (hours)
Phase 2 XC30 (Nov 2014 -)	4920	24	64	4920	48
Phase 1 XC30 (Nov 2013 -)	3008	24	64	3008	48