# Monthly Reporting

## Report from 01 November 2024 to 30 November 2024 Report for Resource Pool Archer2 on archer2

A total of 4,210,560 CUs were available during this period.

## **Use and Allocations (by Project)**

In the following table, Charged refers to usage which was charged against the project Allocation; whereas Used refers to usage including uncharged time. Uncharged time can arise from use of the Low Priority queue and/or during times when charging is disabled on the service.

The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend profile of the total Allocation. If the usage for a project is not linear across the full Allocation period the the Use can be larger than the extrapolated Allocation.

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e760	Leadership	40	877.7	0.02%	877.7	0.02%	475.2	0.01%
	Awards							
e786	Leadership	12	95.9	0.00%	95.9	0.00%	9,445.3	0.22%
	Awards							
e787	Leadership Awards	106	28,879.8	0.69%	28,879.8	0.69%	58,027.8	1.38%
e820	Leadership	72	325.7	0.01%	325.7	0.01%	7,915.8	0.19%
6020	Awards	12	525.7	0.0178	525.7	0.0178	7,915.0	0.197
e821	Leadership	0	0.0	0.00%	0.0	0.00%	3,441.8	0.08%
	Awards						,	
e861	Leadership	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
	Awards							
e862	Leadership	0	0.0	0.00%	0.0	0.00%	782.4	0.02%
-704	Awards	10	004.7	0.040/	0047	0.040/	04 454 0	0.500
e731	Pioneer Projects	19	364.7	0.01%	364.7	0.01%	24,451.0	0.58%
e744	Pioneer	128	6,248.2	0.15%	6,248.3	0.15%	18,700.1	0.44%
0144	Projects	120	0,240.2	0.1070	0,240.0	0.1070	10,700.1	0.447
e808	Pioneer	237	414.2	0.01%	13,895.4	0.33%	6,893.4	0.16%
	Projects	-			- ,		-,	
e809	Pioneer	223	6,849.8	0.16%	77,349.3	1.84%	26,081.1	0.62%
	Projects							
e810	Pioneer	122	3,341.2	0.08%	3,369.5	0.08%	36,676.5	0.87%
	Projects							
e812	Pioneer	61	10,735.3	0.25%	10,735.3	0.25%	14,279.4	0.34%
	Projects							
e813	Pioneer	417	26,259.0	0.62%	26,259.0	0.62%	23,146.9	0.55%
	Projects							
e814	Pioneer	47	88,965.5	2.11%	88,965.5	2.11%	40,008.3	0.95%
e815	Projects Pioneer	1,848	20,521.9	0.49%	20,521.9	0.49%	21,516.9	0.51%
eoro	Projects	1,040	20,521.9	0.49%	20,521.9	0.49%	21,510.9	0.51%
e817	Pioneer	88	9,275.6	0.22%	9,822.6	0.23%	74,624.4	1.77%
	Projects		-,		-,		,•	
c01	Class1a	1,333	3,932.5	0.09%	3,933.3	0.09%	23,958.9	0.57%
e348	Class1a	17,158	51,679.2	1.23%	51,731.6			
e609	Class1a	60	0.5		19,586.1	0.47%		
e643	Class1a	226	20,653.5	0.49%			19,560.8	
e647	Class1a	185	1,225.6		1,225.6			0.28%
e705	Class1a	3	4,598.6		4,598.6			
e707	Class1a	58	8,091.4		8,093.0			0.26%
e710	Class1a	9	0.1	0.00%	0.1	0.00%	2,238.8	0.05%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e712	Class1a	38	963.7	0.02%	963.7	0.02%	16,578.4	0.39%
e720	Class1a	219	48,246.4	1.15%	48,329.4	1.15%	35,209.4	0.84%
e721	Class1a	27	175.3		175.7	0.00%	875.1	0.02%
e728	Class1a	311	3,499.1	0.08%	3,499.1	0.08%	2,341.0	0.06%
e751	Class1a	130	286.7	0.01%	286.7	0.01%	7,335.3	0.17%
e752	Class1a	379	1,716.2		1,716.2	0.04%	3,481.5	0.08%
e763	Class1a	148	8,808.6		8,808.6		11,761.5	0.28%
e764	Class1a	31	357.5		357.5	0.01%	5,515.2	0.13%
e767	Class1a	387	5,885.6		5,922.4	0.14%	14,439.6	0.34%
e769	Class1a	234	4,435.7	0.11%	4,435.7	0.11%	21,897.8	0.52%
e770	Class1a	21	1,516.5		1,539.1	0.04%	11,599.5	0.28%
e793	Class1a	40 92	5,730.4 4,099.0	0.14%	5,730.4	0.14%	27,372.3	0.65% 0.22%
e835	Class1a	92	,	0.10%	4,099.0	0.10%	9,254.9	
e838 e855	Class1a Class1a	257	0.0		0.0 12,759.2	0.00% 0.30%	9,877.6	0.23%
	Class Ta Class 1a			0.30%			38,112.8	
e886		26	6,183.5 234,703.6		6,183.5 406,470.7	0.15%	15,898.4	0.38%
e01 e05	Consortia Consortia	3,533 34,023	814,586.7	5.57% 19.35%	1,077,744.9	9.65% 25.60%	334,196.1 753,905.4	7.94% 17.91%
e05 e89	Consortia	46,430	354,167.0		390,667.3		362,200.6	8.60%
e89 e280	Consortia	40,430	80,588.5		141,526.0	3.36%	203,758.2	4.84%
e280	Consortia	2,513	109,267.3		140,218.2	3.33%	114,104.6	2.71%
e283	Consortia	1,036	7,431.7	0.18%	7,469.0	0.18%	64,061.6	1.52%
e772	Consortia	2,139	79,838.4	1.90%	79,859.8		61,127.5	1.45%
e773	Consortia	1,565	16,774.9		16,936.5		30,170.6	0.72%
d885	Pump Priming	0	0.0	0.00%	0.0	0.00%	596.8	0.01%
e818	Pump Priming	0	0.0	0.00%	0.0	0.00%	4,028.6	0.10%
e853	Pump Priming	77	784.9		784.9	0.02%	217.7	0.01%
e859	Pump Priming	0	0.0	0.00%	0.0	0.00%	180.0	0.00%
e872	Pump Priming	0	0.0		0.0	0.00%	556.8	0.01%
e874	Pump Priming	0	0.0	0.00%	0.0	0.00%	652.0	0.02%
e879	Pump Priming	0	0.0	0.00%	0.0	0.00%	652.0	0.02%
e885	Pump Priming	0	0.0	0.00%	0.0	0.00%	596.8	0.01%
e887	Pump Priming	11	108.5	0.00%	108.5	0.00%	432.5	0.01%
e889	Pump Priming	0	0.0		0.0	0.00%	360.1	0.01%
z61	Research	0	0.0		0.0	0.00%	0.4	0.00%
ta171	Training	0	0.0	0.00%	0.0	0.00%	1,480.3	0.04%
	Access to HPC	0	0.0		0.0	0.00%	4,772.4	0.11%
	Access to HPC	1,387	8,171.2		8,190.2	0.19%	7,050.0	0.17%
	Access to HPC	71	601.0		601.0	0.01%	8,408.3	0.20%
	Access to HPC	181	6,287.1	0.15%	6,287.1	0.15%	2,514.1	0.06%
	Access to HPC	72	62.8		62.8		2,298.4	0.05%
	Access to HPC	409	5,026.0		5,026.0		7,674.3	0.18%
	Access to HPC	1	0.0		0.0		0.0	0.00%
	Access to HPC Access to HPC	0	0.0		0.0	0.00%	27,010.1 19,904.2	0.64%
	Access to HPC Access to HPC	337 319	1,751.2 6,437.4		1,751.3 6,437.4	0.04% 0.15%	19,904.2	0.47% 0.15%
	Access to HPC	0	6,437.4		6,437.4	0.15%	6,453.6 5,092.8	0.15%
	Access to HPC	685	3,449.2		3,449.2	0.00%	5,092.8	0.12%
	Access to HPC	000	3,449.2		3,449.2	0.08%	9,047.1	0.30%
	Access to HPC	70	10,047.7	0.00%	10,047.7	0.00%	<u>9,047.1</u> 5,094.0	0.21%
	Access to HPC	515	7,890.2		11,889.6		13,457.8	0.12%
	Access to HPC	11,509	16,649.6		20,080.2		22,820.9	0.54%
	Access to HPC	842	2,858.1	0.40%	2,858.1	0.40%	1,956.1	0.05%
	Access to HPC	257	2,548.2		2,548.2		5,297.7	0.13%
	Access to HPC	5,455	15,536.6		15,536.9		16,626.7	0.39%
	Access to HPC	316	127,262.7	3.02%	128,121.3		73,353.0	1.74%
	Access to HPC	8	1,252.0		1,252.0		2,216.9	0.05%
	Access to HPC	56	1,077.3		1,077.3		8,373.2	0.20%
	Access to HPC	550	3,087.7	0.07%	3,087.7		3,308.5	0.08%
	Access to HPC	1,431	32,851.8		32,851.8		24,456.2	0.58%
	Access to HPC	0	0.0		0.0	0.00%	18,034.9	0.43%
6000		U,	0.0					
	Access to HPC	0	0.0	ll	0.0	0.00%	5,931.4	0.14%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
-	Class	of Jobs	CUs	Utilisation			CUs	
e871	Access to HPC	208	176.1	0.00%	176.1	0.00%	596.5	0.01%
	Access to HPC	17	96.0		18,530.6	0.44%	4,890.3	
e875	Access to HPC	18	838.6	0.02%	3,143.4	0.07%	4,942.8	0.12%
	Access to HPC	32	1,154.1	0.03%	1,154.1	0.03%	2,099.8	
	Access to HPC	268	28,104.9		28,218.0	0.67%	45,653.2	1.08%
e878	Access to HPC	0	0.0		0.0	0.00%	8,238.0	0.20%
e881	Access to HPC	146	16,420.2		31,796.5	0.76%	6,519.7	0.15%
	Access to HPC	69	4,432.1	0.11%	4,432.1	0.11%	2,271.3	
	Access to HPC	3,421	5,982.8		5,982.8	0.14%	11,984.6	
	Access to HPC	323	9,928.5		9,928.5	0.24%	16,476.0	0.39%
EPSRC Total		149,822	2,429,403.6		3,141,813.8	74.62%	3,074,062.9	73.01%
n01	Consortia	2,347	61,486.5		62,418.9	1.48%	101,917.8	
n02	Consortia	85,233	652,943.2		661,126.0	15.70%	685,068.5	16.27%
n03	Consortia	2,511	48,149.1	1.14%	48,173.0	1.14%	96,904.1	2.30%
NERC Total		90,091	762,578.7		771,717.9	18.33%	883,890.4	20.99%
b19	Class1a	0	0.0		0.0	0.00%	1,432.4	0.03%
<b>BBSRC</b> Total		0	0.0		0.0	0.00%	1,432.4	0.03%
e756	Leadership	218	1,758.1	0.04%	1,758.1	0.04%	4,916.9	
	Awards		.,		.,		.,	
e860		223	2,161.7	0.05%	2,161.7	0.05%	1,648.4	0.04%
	Awards		_,	0.0070	_,	0.0070	.,0.01.	01017
e723	Class1a	544	5,110.5	0.12%	24,155.7	0.57%	38,321.2	0.91%
e738	Class1a	44	101.9		101.9	0.00%	16,300.7	0.39%
UKRI Total		1,029	9,132.2		28,177.4	0.67%	61,187.1	1.45%
ecseag09	eCSE	19	1.4		1.4	0.00%	183.0	0.00%
ecseah01	eCSE	172	39.1	0.00%	39.1	0.00%	98.5	
ecseah05	eCSE	340	5.8		9.7	0.00%	52.6	0.00%
ecseai04	eCSE	0.0	0.0		0.0	0.00%	160.8	0.00%
ecseai05	eCSE	0	0.0		0.0	0.00%	120.6	
ecseai12	eCSE	0	0.0		0.0	0.00%	57.0	0.00%
ecseaj02	eCSE	1	8.8		8.8	0.00%	57.4	0.00%
ecseaj02 ecseak01	eCSE	0	0.0		0.0	0.00%	60.9	0.00%
ecseak01 ecseak02	eCSE	0	0.0		0.0	0.00%	136.4	0.00%
ecseak02 ecseak03	eCSE	13	0.0		0.0	0.00%	65.7	0.00%
ecseak05 ecseak05	eCSE	13	3.9		3.9	0.00%	121.6	
ecseak03	eCSE	15	251.9		251.9	0.00%	89.8	
ecseak09	eCSE	0	0.0		0.0	0.00%	69.4	0.00%
ecseak09 ecseak10	eCSE	0	0.0		0.0	0.00%	93.4	0.00%
ecseak10 ecseak11	eCSE	0	0.0		0.0	0.00%	188.9	0.00%
ecseak11 ecseak12	eCSE	0	0.0		0.0	0.00%	58.2	0.00%
ecseak12 ecseak14	eCSE	0	0.0		0.0	0.00%	161.4	0.00%
		-						
ecseak15		0	0.0		0.0	0.00%	164.4	0.00%
ecseak16			0.0		0.0		68.0	
ecsega20		0	0.0		0.0	0.00%	131.5	
ecsega23		0	0.0		0.0	0.00%	149.2	
ecsega29	eCSE	7	0.0		12.8	0.00%	193.8	
eCSE Total		578	310.9		327.7	0.01%	2,482.6	
d35		522	238.5		238.5	0.01%	400.0	0.01%
d142	Research	0	0.0		0.0	0.00%	411.0	0.01%
d183	Research	1	0.1	0.00%	0.1	0.00%	80.6	
d184	Research	0	0.0		0.0	0.00%	4.1	0.00%
d193		41	0.3		0.3	0.00%	659.3	
d196		0	0.0		0.0	0.00%	41.1	0.00%
d197	Research	0	0.0		0.0	0.00%	655.6	
d198		20	613.4		613.4	0.01%	2,106.2	
d199		0	0.0		0.0	0.00%	438.0	0.01%
d200	Research	0	0.0		0.0	0.00%	194.9	0.00%
d435	Research	197	763.2		765.1	0.02%	2,193.7	0.05%
d442	Research	0	0.0		0.0	0.00%	149.3	
d443	Research	91	660.4		1,632.6	0.04%	1,578.1	0.04%
d445	Research	9	2.5		2.5	0.00%	30.4	0.00%
i246	Research	49	0.0		715.9	0.02%	0.1	0.00%
d195	Industrial	0	0.0	0.00%	0.0	0.00%	80.4	0.00%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
d433	Industrial	89	12.6		12.8	0.00%	53.4	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	16.4	0.00%
d440	Industrial	0	0.0		0.0	0.00%	0.8	0.00%
d441	Industrial	147	569.2	0.01%	569.2	0.01%	100.0	0.00%
i01	Industrial	10	1,077.7	0.03%	829.4	0.02%	565.0	0.01%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	1,086.4	0.03%
i26	Industrial	19	280.2	0.01%	280.2	0.01%	89.6	0.00%
i29	Industrial	0	0.0	0.00%	0.0	0.00%	1,679.7	0.04%
i239	Industrial	868	3,013.6	0.07%	3,013.6	0.07%	1,440.9	0.03%
i242	Industrial	9	324.9		324.9		787.3	0.02%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	638.5	0.02%
i244	Industrial	3	2.0		2.0	0.00%	849.9	0.02%
i248	Industrial	613	117,988.2	2.80%	119,280.3	2.83%	9,666.3	0.23%
i250	Industrial	0	0.0		0.0	0.00%	2.0	0.00%
i251	Industrial	288	2,742.9	0.07%	2,749.3	0.07%	436.0	0.01%
i252	Industrial	0	0.0		0.0	0.00%	365.9	0.01%
i254	Industrial	0	0.0		0.0	0.00%	27.6	0.00%
ta178	Industrial	643	294.3	0.01%	294.3	0.01%	218.9	0.01%
m22ol	Training	0.0	0.0		0.0	0.00%	328.2	0.01%
m24hw	Training	0	0.0		0.0	0.00%	467.3	0.01%
m24oc	Training	0	0.0		0.0	0.00%	934.6	0.02%
m24ol	Training	0	0.0		0.0	0.00%	467.3	0.01%
m24ext	Training	0	0.0		0.0	0.00%	93.5	0.00%
mdisspt	Training	1,454	52.6		52.6	0.00%	575.3	0.00%
ta124	Training	0	0.0		0.0	0.00%	18.4	0.00%
ta124	Training	0	0.0		0.0	0.00%	18.4	0.00%
ta125	Training	0	0.0		0.0	0.00%	30.7	0.00%
ta120	Training	0	0.0		0.0	0.00%	639.3	0.00%
ta135	Training	3	4.4	0.00%	4.4	0.00%	987.7	0.02 %
ta135	Training	2	0.9		4.4		14.8	0.02 %
ta156	Training	2	0.9	0.00%	0.9	0.00%	30.7	0.00%
ta150	Training	0	0.0		0.0	0.00%	491.8	0.00%
ta167	Training	174	1,794.0		1,794.0	0.00%	1,265.9	0.01%
ta169	Training	0	0.0	0.04%	0.0	0.04%	1,205.9	0.03%
ta170	Training	1,153	944.4	0.00%	951.4	0.00%	492.8	0.00%
	<u> </u>	1,155				0.02%	492.8	0.01%
ta173 ta174	Training	230	0.0		0.0		98.9	
	Training		4.9		4.9	0.00%		0.00%
ta175	Training	498	95.2		63.7	0.00%	108.4	0.00%
ta176	Training	0	0.0		0.0	0.00%	72.8	0.00%
ta177	Training	202	586.3	0.01%	391.2	0.01%	299.8	0.01%
ta179	Training	0	0.0		0.0	0.00%	467.3	0.01%
ta180	Training	116	0.5		0.5			
ta181	Training	0	0.0		0.0			
ta182	Training	36	0.0		0.5		64.7	0.00%
ta183	Training	0	0.0		0.0	0.00%		0.00%
d201	GPU 1b	2	0.0		0.5			0.00%
	micAccessUoE	8	0.0		0.3	0.00%		0.02%
d438	Service	0	0.0		0.0	0.00%	5,453.7	0.13%
y01	Service	0	0.0		0.0	0.00%	72.4	
y02	Service	445	58.0		75.1	0.00%		0.10%
y07	Service	25	2.8		76.4	0.00%		0.00%
z02	Service	1	0.0		0.0			0.00%
z19	Service	4,175	8,339.3		8,359.6			0.98%
z99	Service	0	0.0	l l	0.0	0.00%	0.8	0.00%
DirectorsTime Total		12,143	140,467.3		143,100.2			2.07%
Total		253,663	3,341,892.7	79.37%	4,085,137.1	97.02%	4,110,175.4	97.62%



Use by Project



Uncharged Use by Project



Jobs by Project

## CUs (by Size)

Size	CUs	Number of Jobs
1	0	1
2	0	34,491
3-4	0	831
5-8	0	612
9-16	0	79
17-32	0	270
33-64	0	75
65-128	0	13
129-256	200,973.747	
257-512		
513-1024	402,367.318	27,597
1025-2048	362,393.167	
2049-4096	667,696.018	
4097-8192	459,080.08	5,817
8193-16384	448,344.84	1,966
16385-32768	299,601.49	1,449
32769-65536	261,901.492	509
65537-131072	60,827.243	492
131073-262144	5,954.471	49
262145-524288	339.058	4

## Load plots





Percentage load on machine

Jobs by Size



CUs used by Size



Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours



CUs used grouped by core-hours

## Disk usage

## Disk usage for home (a2fs-home1)

This is a plot of Disk Use on a2fs-home1 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



Disk usage for home (a2fs-home2)

This is a plot of Disk Use on a2fs-home2 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-home2

### Disk usage for home (a2fs-home3)

This is a plot of Disk Use on a2fs-home3 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-home3

## Disk usage for scratch ( a2fs-nvme )

This is a plot of Disk Use on a2fs-nvme against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-nvme

### Disk usage for work (a2fs-work1)

This is a plot of Disk Use on a2fs-work1 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



### a2fs-work1 Disk usage for work ( a2fs-work2 )

This is a plot of Disk Use on a2fs-work2 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-work2

### Disk usage for work (a2fs-work3)

This is a plot of Disk Use on a2fs-work3 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-work3

### Disk usage for work (a2fs-work4)

This is a plot of Disk Use on a2fs-work4 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### a2fs-work4

### Disk usage for epsrc (rdfaas\_epsrc)

This is a plot of Disk Use on rdfaas\_epsrc against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



#### rdfaas\_epsrc

## Disk usage for general (rdfaas\_general)

This is a plot of Disk Use on rdfaas\_general against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.



rdfaas\_general