# Monthly Reporting

### Report from 01 January 2022 to 31 January 2022

#### Report for Resource Pool Archer2 on archer2

A total of 4,350,912 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.

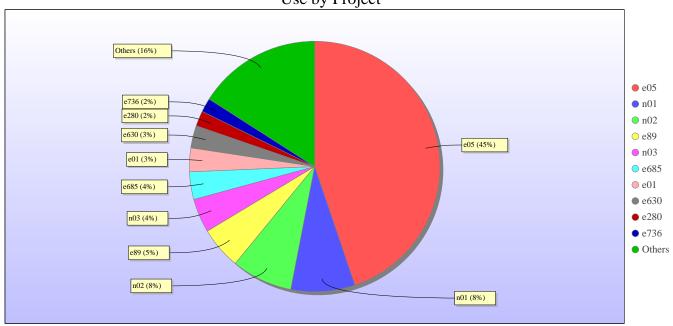
Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
e683	Pioneer	0	0.0	0.00%	0.0	0.00%	14,253.0	0.33%
	Projects							
e685	Pioneer	428	4,385.4	0.10%	135,094.3	3.10%	21,071.1	0.48%
	Projects							
e686	Pioneer	122	4,891.2	0.11%	4,891.2	0.11%	18,844.1	0.43%
	Projects							
e687	Pioneer	21	468.3	0.01%	468.3	0.01%	16,822.7	0.39%
222	Projects			2.122/		0.100/		
e688	Pioneer	168	5,413.3	0.12%	5,414.9	0.12%	22,698.6	0.529
-000	Projects	205	4 000 0	0.040/	4 000 0	0.040/	20.040.5	0.000
e689	Pioneer	365	1,829.0	0.04%	1,829.0	0.04%	26,210.5	0.60%
0000	Projects	201	30,123.1	0.600/	26 727 2	0.040/	2F 606 F	0.599
e690	Pioneer Projects	281	30,123.1	0.69%	36,737.3	0.84%	25,696.5	0.59%
e691	Pioneer	26	19,709.6	0.45%	20,395.1	0.47%	26,198.1	0.609
6031	Projects	20	19,709.0	0.4376	20,393.1	0.47 /6	20,190.1	0.00
e692	Pioneer	230	8,241.3	0.19%	8,241.3	0.19%	19,776.0	0.459
0002	Projects	250	0,241.0	0.1370	0,241.0	0.1370	13,770.0	0.43
e693	Pioneer	0	0.0	0.00%	0.0	0.00%	17,131.0	0.399
3333	Projects	٦	0.0	0.0070	0.0	0.0070	,	0.007
E635	Class1a	523	6,448.4	0.15%	14,423.1	0.33%	3,372.3	0.089
c01	Class1a	947	24,560.7	0.56%			31,647.8	
e348	Class1a	307	2,619.6		18,802.2		4,651.1	
e432	Class1a	13	24.2	0.00%	24.2	0.00%	5,249.5	0.129
e448	Class1a	71	2,991.7	0.07%	3,036.8	0.07%	3,514.6	0.089
e569	Class1a	2	0.0	0.00%	42.1	0.00%	3,738.3	0.099
e572	Class1a	172	2,105.0	0.05%	2,105.0	0.05%	1,997.0	0.059
e575	Class1a	140	420.2	0.01%	686.0	0.02%	2,924.0	0.079
e607	Class1a	524	3,063.0	0.07%	11,806.2	0.27%	10,017.1	
e609	Class1a	497	8,143.9				3,426.2	
e613	Class1a	0	0.0	0.00%	0.0		242.3	
e630	Class1a	84	88,588.3	2.04%	109,887.7	2.53%	26,787.5	0.629
e637	Class1a	0	0.0	0.00%	0.0		1,778.3	
e642	Class1a	0	0.0	0.00%	0.0	0.00%	4,910.9	0.119
e643	Class1a	178	1,868.4	0.04%	2,743.5	0.06%	5,164.3	
e645	Class1a	9	240.9	0.01%			2,705.9	
e647	Class1a	801	3,444.4	0.08%			4,625.4	
e648	Class1a	251	515.3	0.01%	515.3		1,613.9	
e649	Class1a	91	905.0	0.02%		0.15%	5,057.3	
e651	Class1a	0	0.0				1,367.2	
e655	Class1a	73	16,236.0	0.37%			4,694.0	
e663	Class1a	723	3,137.2	0.07%	3,137.2	0.07%	3,372.3	0.089

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e664	Class1a	0	0.0	0.00%	0.0	0.00%	899.3	0.02%
e667	Class1a	162	3,640.7	0.08%	3,644.5		2,167.2	0.05%
e668	Class1a	0	0.0	0.00%	0.0	0.00%	1,444.8	0.03%
e681	Class1a	93	18.5	0.00%	18.5	0.00%	2,484.0	0.06%
e682	Class1a	363	3,090.7	0.07%	7,065.0	0.16%	7,573.6	0.17%
e684	Class1a	64	3,947.7	0.09%	3,947.7	0.09%	755.8	0.02%
e694	Class1a	7	0.2	0.00%	0.2		2,880.9	0.07%
e696	Class1a	90	145.3	0.00%	145.3	0.00%	154.6	
e697	Class1a	130	8,458.7	0.19%	45,840.7	1.05%	8,922.3	0.21%
e700	Class1a	0	0.0	0.00%	0.0		3,391.9	
e701	Class1a	134	8,824.3	0.20%	8,845.2	0.20%	2,826.6	
e702	Class1a	6	115.9	0.00%	115.9	0.00%	2,029.7	0.05%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	513.9	
e707	Class1a	75	2,711.4	0.06%	2,711.4	0.06%	10,162.0	0.23%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	1,479.4	0.03%
e710		6	253.3	0.01%	253.3	0.01%	902.9	0.02%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	17,131.0	0.39%
e720	Class1a	232	5,001.9	0.11%	5,001.9	0.11%	7,284.1	0.17%
e721	Class1a	0	0.0	0.00%	0.0	0.00%	519.3	0.01%
e723	Class1a	0	0.0	0.00%	0.0		20,335.2	0.47%
e724	Class1a	29	0.5	0.00%	0.5	0.00%	2,583.3	0.06%
e738	Class1a	0	0.0	0.00%	0.0	0.00%	3,879.3	0.09%
e6337	Class1a Class1a	0	0.0	0.00%	0.0		2,663.3	0.06%
ec110	Class1a Class1a	0	0.0	0.00%	0.0	0.00%	2,003.3	0.00%
e01	Consortia	1,393	85,594.7	1.97%	116,150.1	2.67%	229,586.4	5.28%
e05	Consortia	31,040	954,786.1	21.94%	1,699,127.6	39.05%	727,024.0	16.71%
e89	Consortia	11,385	175,389.4	4.03%	207,276.3		344,379.7	7.92%
e280	Consortia	1,134	72,943.9	1.68%	74,829.7	1.72%	153,057.9	
e280 e281	Consortia	439	3,643.6				69,591.9	
					18,463.8			
e283 e305	Consortia Consortia	2,071 957	32,666.1 46,978.8	0.75% 1.08%	47,376.1	1.09% 1.35%	38,264.7 114,793.2	0.88% 2.64%
e585	Consortia	778	36,770.3	0.85%	58,579.3 37,269.7	0.86%	114,793.2	2.64%
e669		0	0.0	0.00%	0.0	0.00%	81.0	0.00%
e704		0	0.0	0.00%	0.0	0.00%	72.5	0.00%
e704 e709	1 0	13	44.7	0.00%	44.7	0.00%	115.3	0.00%
e709 e711	Pump Priming	0	0.0	0.00%	0.0		133.4	0.00%
e711	. 0	0	0.0	0.00%	0.0	0.00%	130.1	0.00%
e719		0	0.0	0.00%	0.0	0.00%	137.0	0.00%
e719	Pump Priming	0	0.0	0.00%	0.0	0.00%	136.3	0.00%
e725	Pump Priming	0	0.0	0.00%	0.0	0.00%	137.0	0.00%
e725		7	97.9	0.00%	97.9	0.00%	137.0	0.00%
e720 e727	1 3	0	0.0		0.0		136.7	
e729		1,200	379.2		1,461.8		90.6	
e729		1,200	624.7	0.01%	698.5		116.5	0.00%
e737 e741		0	0.0		0.0		97.3	0.00%
ta021	Training	0	0.0	0.00%	0.0		63.9	
ta021		0	0.0	0.00%	0.0	0.00%	63.5	
ta026	Training	0	0.0	0.00%	0.0	0.00%	84.9	0.00%
ta027	Training	0	0.0		0.0		63.6	
ta037		0	0.0	0.00%	0.0	0.00%	63.6	
ta038		0	0.0		0.0	0.00%	85.7	0.00%
ta043		0	0.0		0.0		511.4	
	Access to HPC	4	23.5		69.5		4,221.1	0.01%
	Access to HPC	0	0.0	0.00%	0.0		649.6	
	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,400.6	0.01%
	Access to HPC	1	0.0		0.0		4,988.6	
	Access to HPC	132	571.4	0.00%	571.4	0.00%	3,336.3	0.11%
	Access to HPC	207	3,052.0	0.01%	17,707.8		10,402.0	0.08%
	Access to HPC		3,052.0		0.0		3,452.4	0.24%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	7.3	
	Access to HPC	0	0.0		0.0	0.00%	822.3	0.00%
	Access to HPC	19	760.5		760.5		4,933.7	0.02%
	Access to HPC	0	0.0		0.0		6,989.5	
6000	, 100033 10 FIF C	U	0.0	0.00%	0.0	0.00%	0,505.5	0.10%

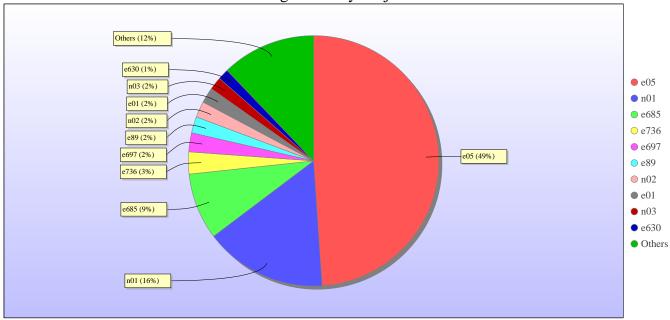
Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
	Access to HPC	0	0.0		0.0		3,750.7	0.09%
	Access to HPC	306	327.1	0.01%	327.2	0.01%	4,933.7	0.11%
	Access to HPC Access to HPC	0	0.0	0.00% 0.00%	0.0	0.00% 0.00%	8,565.5 5,139.3	0.20% 0.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,289.2	0.12%
	Access to HPC	27	41.4	0.00%	41.4	0.00%	6,852.4	0.16%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,992.6	
e736	Access to HPC	368	24,984.9	0.57%	68,278.6	1.57%	12,334.3	
EPSRC Total		60,083	1,716,262.8		2,908,834.6	66.86%	2,338,554.2	53.75%
n01	Consortia	4,643	73,498.9		313,823.6	7.21%	153,980.8	
n02 n03	Consortia Consortia	26,553	266,615.1	6.13% 3.24%	298,098.9	6.85% 3.82%	439,265.8	10.10% 2.58%
NERC Total	Consonia	2,404 33,600	140,996.8 481,110.8		166,288.7 778,211.2	3.82% 17.89%	112,364.4 705,611.0	16.22%
b19	Class1a		10.1	0.00%	10.1	0.00%	1,407.5	0.03%
e621	Class1a		199.4	0.00%	2,937.4	0.07%	2,156.0	0.05%
BBSRC Total		91	209.5	0.00%	2,947.5	0.07%	3,563.5	0.08%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2.5	0.00%
pr1u1652		0	0.0	0.00%	0.0	0.00%	1,752.0	0.04%
pr1u1653	DECI: EXEC	38	12,486.9	0.29%	13,600.3	0.31%	5,751.6	
pr1u1654		1	45.5 0.0	0.00% 0.00%	45.5 0.0	0.00%	675.1 934.6	0.02% 0.02%
pr1u1656 pr1u1657	DECI: EXEC	7	61.3	0.00%	61.3	0.00% 0.00%	532.2	0.02%
pr1u1657		404	719.6		719.6	0.00%	1,581.7	0.01%
pr1u1751	DECI: EXEC	781	513.2		513.4	0.01%	1,621.7	0.04%
pr1u1752	DECI: EXEC	2	0.0	0.00%	1,705.6	0.04%	1,927.1	0.04%
pr1u1753	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,289.4	0.05%
pr1u1754		591	8,237.9		8,467.7	0.19%	2,649.8	
pr1u1755	DECI: EXEC	12	157.0	0.00%	157.0	0.00%	1,734.4	0.04%
pr1u1756		49	622.4	0.01%	622.4	0.01%	4,089.0	0.09%
pr1u1757	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	916.8	0.02%
pr1u1758 pr1u1759		5 8	364.4 138.5	0.01% 0.00%	364.4 138.5	0.01% 0.00%	715.4 1,540.7	0.02% 0.04%
pr1u1760		0	0.0	0.00%	0.0	0.00%	578.1	0.01%
pr1u1702		198	1,386.1	0.03%	1,481.4	0.03%	1,702.7	0.04%
pr1u1707	DECI: HOME	80	378.0	0.01%	378.0	0.01%	1,475.4	0.03%
pr1ush01	DECI: HOME	437	2,314.9		3,322.1	0.08%	471.2	0.01%
pr1ushpc	DECI: HOME	0	0.0		0.0	0.00%	82.9	0.00%
PRACE Total	-005	2,613	27,425.8	0.63%	31,577.3	0.73%	33,024.4	0.76%
ecseaa06 ecseaa09	eCSE eCSE	0	0.0	0.00% 0.00%	0.0	0.00% 0.00%	184.4 92.2	0.00% 0.00%
ecseaa11	eCSE		37.2		37.2		78.6	
ecseaa12			0.0		0.0		67.9	
ecseaa13			0.0	0.00%	0.0		184.4	
ecseaa14			0.0		0.0		229.6	
ecseaa16		0	0.0		0.0		236.1	0.01%
ecseaa19			11.9		23.1	0.00%	102.9	
ecseaa21	eCSE eCSE		0.0	0.00% 0.00%	0.0 0.0	0.00% 0.00%	68.6 57.4	0.00% 0.00%
ecseaa22 ecseaa26		118	616.1	0.00%	922.3	0.00%	126.5	0.00%
ecseaa28			0.0		0.0		77.6	
ecseab02			0.0	0.00%	0.0	0.00%	93.1	0.00%
ecseab03		0	0.0	0.00%	0.0	0.00%	150.3	0.00%
ecseab04			0.0		0.0		16.4	0.00%
ecseab06			4.1	0.00%	4.1	0.00%	4.8	
ecseab11	eCSE	0	0.0		0.0	0.00%	19.0	0.00%
ecseab12			960.0		960.0		103.2	0.00%
ecseab13 ecseac02		14 28	0.0	0.00% 0.00%	0.0 638.0	0.00% 0.01%	49.5 56.9	
ecseac02 ecseac04			0.1		0.0		101.4	
ecseac05			0.0		0.0		63.9	
ecseac06			0.0		0.0	0.00%	78.8	
ecseac10	eCSE		0.0	0.00%	0.0	0.00%	113.1	0.00%
ecseac12	eCSE	0	0.0	0.00%	0.0	0.00%	84.2	0.00%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseac14	eCSE	0	0.0		0.0	0.00%	65.3	0.00%
ecsead01	eCSE	0	0.0		0.0	0.00%	98.2	0.00%
ecsead05	eCSE	0	0.0		0.0	0.00%	93.6	0.00%
ecsead06	eCSE	17	4.9		4.9	0.00%	73.9	0.00%
ecsead07	eCSE	0	0.0		0.0	0.00%	66.0	0.00%
ecsead08	eCSE	14	38.2		2,162.3	0.05%	78.0	0.00%
eCSE Total		289	1,672.5		4,752.0	0.11%	2,915.6	0.07%
d35	Research	6	0.9		0.9	0.00%	144.2	0.00%
d56	Research	556	7,858.5		7,866.2	0.18%	6,198.8	0.14%
d114	Research	725	7,299.0		7,551.0	0.17%	15,693.2	0.36%
d118	Research	45	257.5		257.5	0.01%	792.7	0.02%
d137	Research	32	6,417.1	0.15%	10,838.2	0.25%	1,681.6	0.04%
d142	Research	18	3,118.7	0.07%	3,120.3	0.07%	1,915.9	0.04%
d155	Research	631	3,537.5	0.08%	15,290.9	0.35%	9,025.3	0.21%
d170	Research	55	12.2		12.2	0.00%	52.5	0.00%
d175	Research	134	115.5		115.5	0.00%	1,414.1	0.03%
d178	Research	0	0.0		0.0	0.00%	1,232.2	0.03%
d179	Research	6	136.8		136.8	0.00%	3,426.2	0.08%
d428	Research	0	0.0		0.0	0.00%	20.1	0.00%
d429	Research	1,185	7,240.6		8,258.1	0.19%	9,417.7	0.22%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	1,818.6	0.04%
d432	Industrial	133	4,577.0	0.11%	4,577.0	0.11%	1,246.3	0.03%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	78.3	0.00%
i18	Industrial	27	51.6	0.00%	51.6	0.00%	2,351.2	0.05%
i21	Industrial	484	994.7	0.02%	994.7	0.02%	1,336.8	0.03%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	511.9	0.01%
i239	Industrial	25	0.2	0.00%	0.2	0.00%	826.7	0.02%
d174	Training	0	0.0		0.0	0.00%	506.5	0.01%
d176	Training	0	0.0	0.00%	0.0	0.00%	31.6	0.00%
d180	Training	290	45.4	0.00%	45.4	0.00%	127.3	0.00%
ta045	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta046	Training	0	0.0	0.00%	0.0	0.00%	32.0	0.00%
ta047	Training	15	0.2	0.00%	0.2	0.00%	32.0	0.00%
ta048	Training	199	12.3	0.00%	12.3	0.00%	70.3	0.00%
ta049	Training	39	0.5		0.5	0.00%	47.8	0.00%
ta050	Training	109	0.8		0.8	0.00%	40.7	0.00%
ta051	Training	18	0.2	0.00%	0.2	0.00%	40.7	0.00%
ta053	Training	0	0.0	0.00%	0.0	0.00%	7.6	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	58.8	0.00%
y02	Service	72	0.8	0.00%	0.8	0.00%	47.8	0.00%
y23	Service	5	12.1	0.00%	12.1	0.00%	55.6	0.00%
z19	Service	1,085	3,883.8	0.09%	8,199.6	0.19%	25,628.7	0.59%
z99	Service	0	0.0		0.0			0.00%
d177	UoE Access	0	0.0	0.00%	0.0	0.00%		0.00%
sc004	UoE Access	0	0.0		0.0	0.00%		0.00%
DirectorsTime		5,894	45,573.8	1.05%	67,343.0	1.55%	85,974.5	1.98%
Total								
z02	Service	8	0.8	0.00%	1.8	0.00%		0.01%
CSE Total		8	0.8		1.8			0.01%
Total		102,578	2,272,256.0	52.22%	3,793,667.3	87.19%	3,170,016.2	72.86%

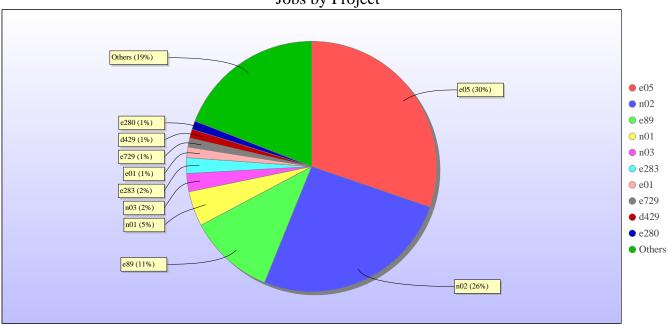
Use by Project







Jobs by Project



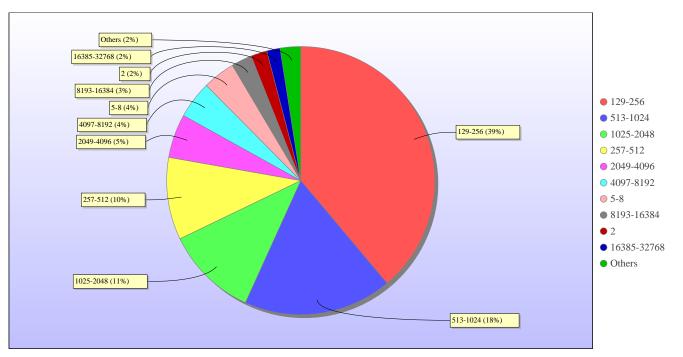
# CUs (by Size)

Size	CUs	Number of Jobs
1	0	90
2	0	1,988
3-4	0	25
5-8	0	4,018
9-16	0	34
17-32	0	438
33-64	0	55
65-128	0	620
129-256	72,437.746	39,874
257-512	78,043.504	10,175
513-1024	162,845.67	18,369
1025-2048	288,493.832	11,367
2049-4096		
4097-8192	283,863.666	4,608
8193-16384	383,776.78	2,566
16385-32768	383,064.264	1,647
32769-65536	229,173.873	787
65537-131072	94,438.474	336
131073-262144	61,662.713	132
262145-524288	2,224.356	
524289-1048576	3,081.387	3

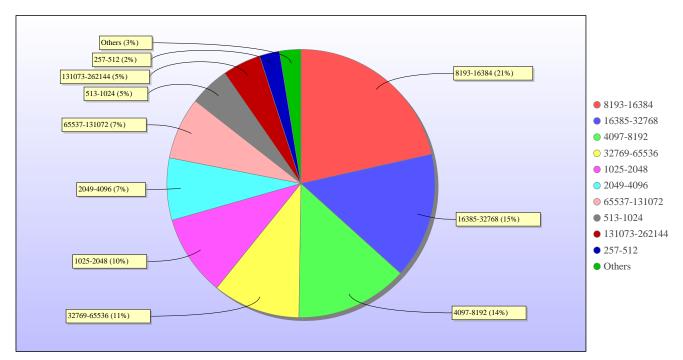
# **Load plots**



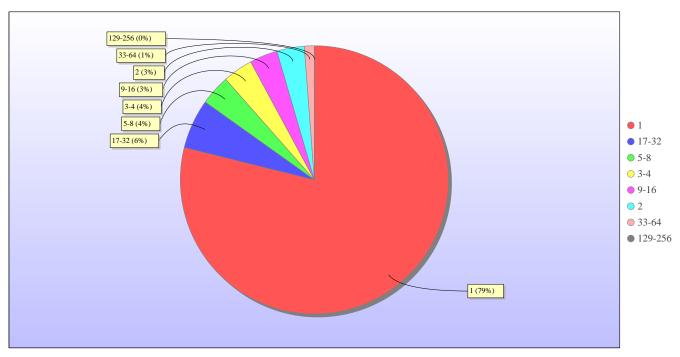
#### Percentage load on machine



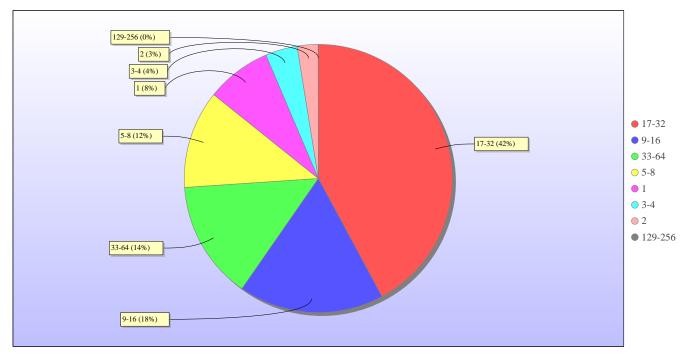
Jobs by Size



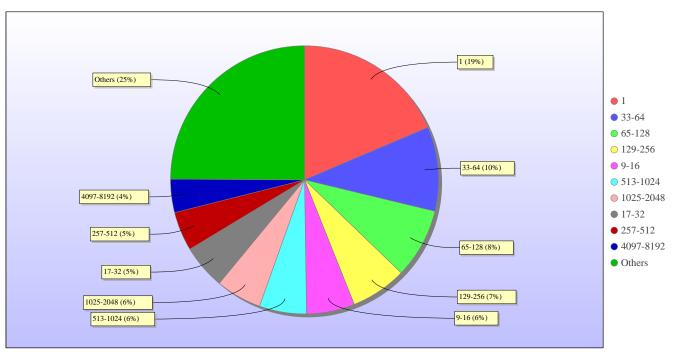
CUs used by Size



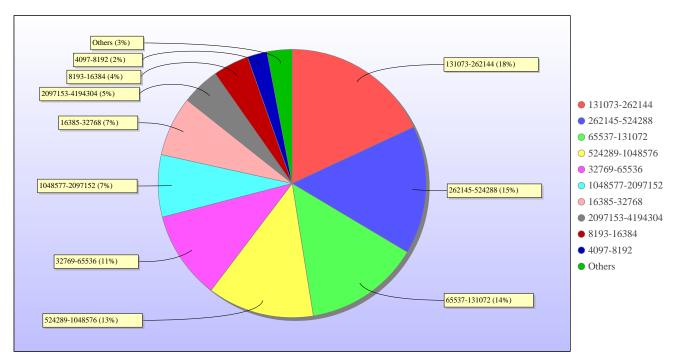
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

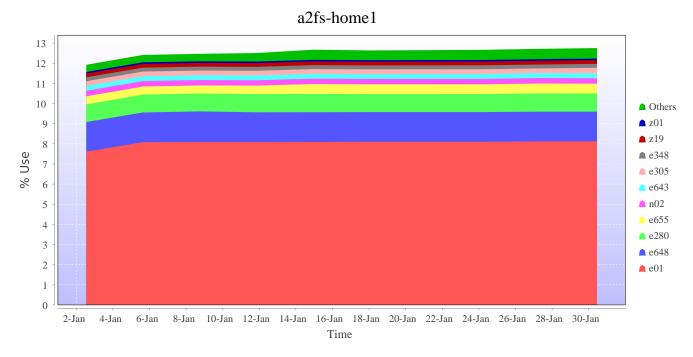


CUs used grouped by core-hours

### Disk usage

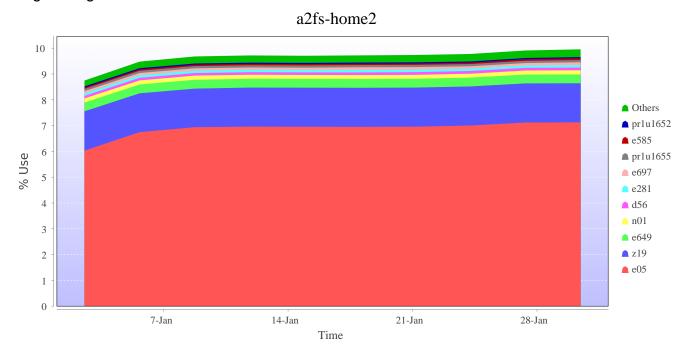
#### Disk usage for home (a2fs-home1)

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.



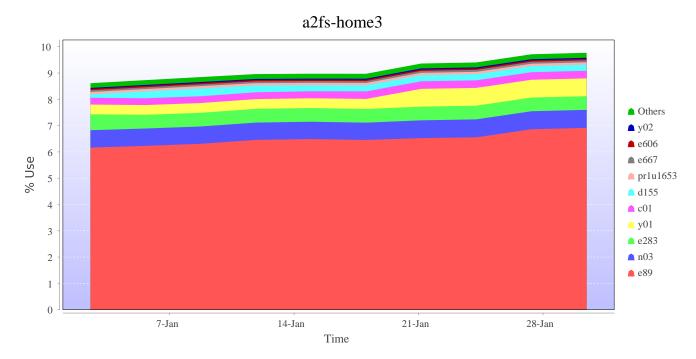
## Disk usage for home (a2fs-home2)

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.



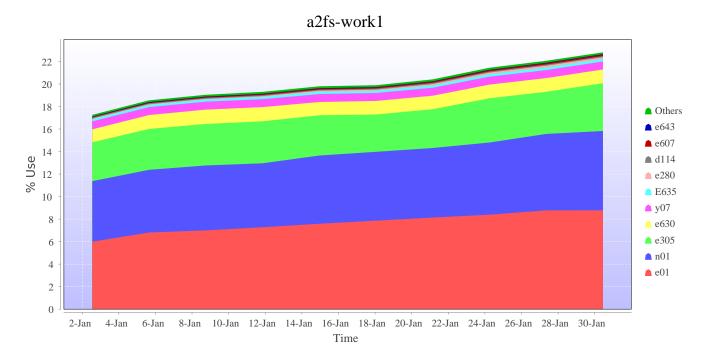
### Disk usage for home (a2fs-home3)

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.



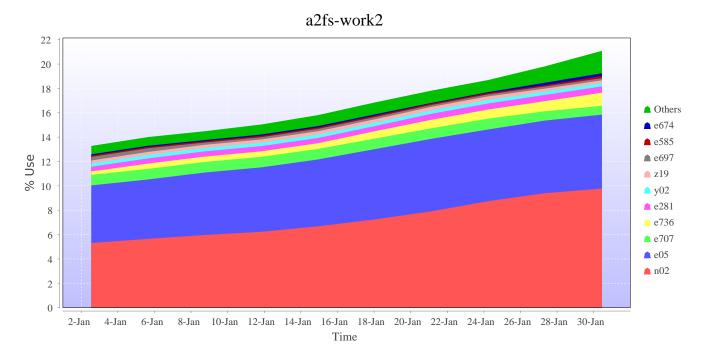
### Disk usage for work (a2fs-work1)

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.



#### 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.



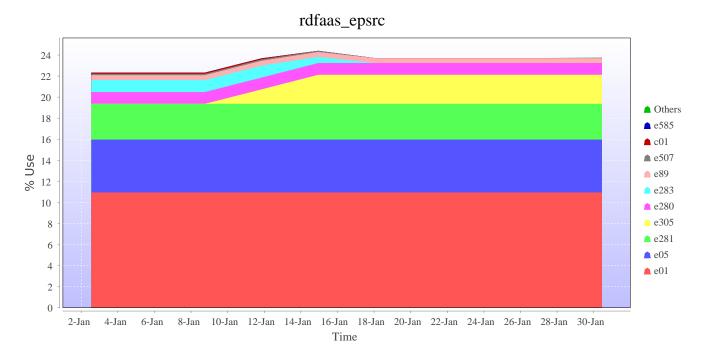
### Disk usage for work (a2fs-work3)

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.



#### 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.



### 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.

