Monthly Reporting

Report from 01 October 2023 to 31 October 2023

Report for Resource Pool Archer2 on archer2

A total of 4,356,760 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
e572	Leadership Awards	0	0.0		0.0			
e645	Leadership Awards	25	1,754.9		1,754.9			
e760	Leadership Awards	105	2,364.7					
e786	Leadership Awards	5	76.6		76.6		·	
e787	Leadership Awards	32	6,646.5		6,646.5	0.15%		
e683	Pioneer Projects	294	2,825.9	0.06%				
e685	Pioneer Projects	62	61.6		7,592.9		·	
e686	Pioneer Projects	1,286	24,348.6		26,769.4			
e687	Pioneer Projects	203	4,797.1		4,797.1	0.11%		
e688	Pioneer Projects	175	17,987.8		18,023.4	0.41%	·	
e689	Pioneer Projects	28	1,902.7		1,902.7	0.04%		
e690	Pioneer Projects	15	7,332.1	0.17%	8,622.5			
e691	Pioneer Projects	60	95,513.7		101,749.5		25,793.8	
e692	Pioneer Projects	30	14,257.7		15,956.6			
e731	Pioneer Projects	168	9,741.4		9,799.3		·	
e744	Pioneer Projects	208	17,535.6		17,565.0	0.40%	·	
e808	Pioneer Projects	181	7,877.9					
e809	Pioneer Projects	13	86.0	0.00%	86.0	0.00%	7,876.9	0.18%
e810	Pioneer Projects	410	12,200.1	0.28%	12,497.9	0.29%	35,446.2	
e812	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	13,870.8	0.32%
e813	Pioneer Projects	550	13,412.3	0.31%	16,633.2	0.38%	23,395.6	0.54%

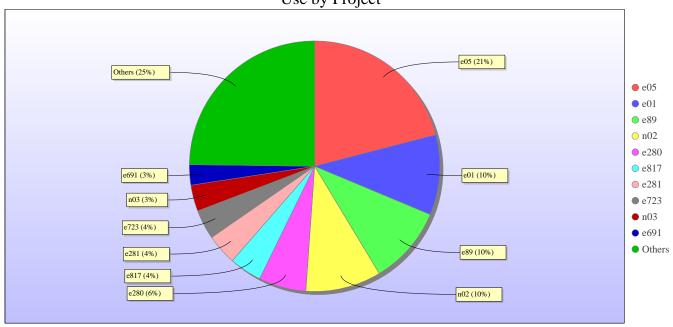
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e814	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	7,957.7	0.18%
e815	Pioneer Projects	1,272	16,830.5	0.39%	16,864.7	0.39%	21,008.3	0.48%
e817	Pioneer Projects	163	152,242.4	3.49%	161,701.7	3.71%	77,215.5	1.77%
c01	Class1a	595	8,498.8	0.20%	9,316.3	0.21%	22,773.9	0.52%
e348	Class1a	5,095	13,842.5		13,851.5			
e575	Class1a	0	0.0		0.0	0.00%		
e607	Class1a	1,229	15,823.0		28,759.6	0.66%	,	
e609	Class1a	1,327	1,471.7		10,729.9	0.25%	,	0.32%
e643	Class1a	281	12,175.1		12,433.8	0.29%		
e647	Class1a	595	3,957.6		3,957.7	0.09%		
e694	Class1a	0	0.0		0.0	0.00%		
e696	Class1a	52	584.1		584.1	0.01%		
e697 e700	Class1a	8	395.8 0.0		2,786.6 0.0	0.06% 0.00%		
e700 e701	Class1a Class1a	31	1,555.8		1,555.8	0.00%		
e701 e705	Class 1a	17	1,326.5		1,326.5	0.04%		
e705	Class1a	39	9,278.8		9,280.9	0.03%		
e710	Class1a	256	528.9		528.9	0.21%		
e710 e712	Class1a	208	78,183.8		82,955.7	1.90%		
e720	Class1a	181	13,434.8		13,701.5	0.31%		0.52%
e721	Class1a	0	0.0		0.0	0.00%		
e728	Class1a	97	1,909.7		2,130.1	0.05%		0.07%
e751	Class1a	222	990.4		990.4	0.02%		
e752	Class1a	21	21.9		22.2	0.00%		
e758	Class1a	20	1,757.0		3,029.2	0.07%		0.08%
e763	Class1a	0	0.0		0.0	0.00%		
e764	Class1a	0	0.0	0.00%	0.0	0.00%		
e767	Class1a	5	0.1	0.00%	0.1	0.00%	5,936.9	0.14%
e769	Class1a	172	67,067.5		67,874.7	1.56%	29,005.3	
e770	Class1a	693	13,793.4	0.32%	13,835.9	0.32%	6,603.1	0.15%
e793	Class1a	25	49,270.7	1.13%	53,003.0	1.22%	31,669.8	0.73%
e820	Class1a	14	36.8		36.8	0.00%		
e821	Class1a	0	0.0		0.0	0.00%		
e6337	Class1a	9	7,248.6		7,248.6	0.17%		
ec110	Class1a	0	0.0		0.0	0.00%		
e01	Consortia	2,860	334,326.4		400,505.4	9.19%		9.54%
e05	Consortia	26,295	661,717.3		811,544.1	18.63%		
e89	Consortia	26,576	378,259.1		390,260.3	8.96%		
e280	Consortia	5,303	152,921.9		236,649.6			
e281	Consortia	3,318	117,060.7		153,359.6			
e283	Consortia	6,513	66,090.5			1.52%		
e772	Consortia Consortia	5,545	25,542.8					
e773 e718	Pump Priming	276 6	8,234.9 0.9		8,428.5 0.9	0.19% 0.00%		
e718	Pump Priming	0	0.9		0.9	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		0.01%
e791	Pump Priming	0	0.0		0.0	0.00%		
e792	Pump Priming	33	154.4		154.4	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		
e811	Pump Priming	0	0.0		0.0	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		0.01%
e824	Pump Priming	173	278.8		278.8	0.01%		
	Pump Priming	0	0.0		0.0	0.00%		
	Pump Priming	0	0.0		0.0	0.00%		
e837	Pump Priming	75	344.7		344.7	0.01%		
		10						
ta120	Training	0	0.0			0.00%	114.8 5,397.5	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
•	Class	of Jobs	CUs	Utilisation			CUs	
	Access to HPC	0	0.0		0.0		3,784.9	
	Access to HPC	0	0.0	0.00%	0.0		3,121.3	
	Access to HPC	222	850.6		850.6		3,991.3	0.09%
	Access to HPC	179	5,161.7	0.12%	5,347.3		12,251.0	0.28%
	Access to HPC	20	158.0		158.1		1,754.0	0.04%
	Access to HPC	1,367	42,979.0		43,967.5		11,602.1	0.27%
	Access to HPC	3	0.0		18.9		0.3	0.00%
	Access to HPC Access to HPC	126 22	770.1 10,486.3	0.02% 0.24%	770.1 10,486.3		22,385.0 7,448.3	0.51% 0.17%
	Access to HPC	502	4,256.1	0.24%	4,256.1		10,524.8	
	Access to HPC	121	9,111.4		9,279.4		16,866.7	0.39%
	Access to HPC	7	521.1	0.01%	521.1	0.01%	5,999.0	0.14%
	Access to HPC	8	695.4	0.02%	12,984.7		4,169.8	0.10%
	Access to HPC	0	0.0		0.0		894.8	
	Access to HPC	53	8,321.8		8,321.8		5,947.9	
e781	Access to HPC	260	1,169.4	0.03%	1,169.4		3,373.3	0.08%
e782	Access to HPC	1	480.1	0.01%	480.1	0.01%	796.5	0.02%
e783	Access to HPC	165	2,846.9		2,846.9		11,186.1	0.26%
	Access to HPC	50	7,450.2		7,450.2		11,415.3	0.26%
	Access to HPC	235	2,036.0		2,088.9		8,205.0	0.19%
	Access to HPC	80	5,613.3		6,477.5		6,746.7	0.15%
	Access to HPC	0	0.0		0.0		5,128.6	
	Access to HPC	1	2.5		2.5		5,060.0	0.12%
	Access to HPC	25	147.1	0.00%	147.1		843.3	0.02%
	Access to HPC	83	10,078.0	0.23%	10,078.0		5,060.0	0.12%
	Access to HPC	72	770.9		770.9		14,049.9	0.32%
	Access to HPC	9	0.0		7.4		4,135.0	0.09%
	Access to HPC Access to HPC	77	0.0 2,664.0	0.00% 0.06%	0.0 2,664.0		2,266.9 11,132.0	0.05% 0.26%
	Access to HPC	150	3,114.4	0.06%	3,184.8		3,530.1	0.26%
	Access to HPC	0	0.0		0.0		1,645.4	0.06%
	Access to HPC	62	23,710.7	0.54%	23,710.7	0.54%	17,571.6	
EPSRC Total	A00033 10 TH O	97,389	2,611,543.4		3,043,557.5		3,170,891.5	
n01	Consortia		75,601.3		78,889.0		107,543.3	
n02	Consortia		371,608.9		377,361.8		844,486.0	19.38%
n03		3,214	127,202.0		130,970.6		167,930.3	3.85%
NERC Total		82,809	574,412.2		587,221.4		1,119,959.6	
b19	Class1a	417	754.3		754.3	0.02%	3,120.8	
BBSRC Total		417	754.3	0.02%	754.3	0.02%	3,120.8	0.07%
e756		281	1,447.1	0.03%	1,447.1	0.03%	9,090.2	0.21%
2722	Awards		140 706 0	2 200/	147 704 5	2.200/	20 604 0	0.89%
e723			142,726.2		147,734.5 0.0		38,601.0	
e738 UKRI Total		682	0.0 144,173.3		149,181.6		16,866.7 64,557.8	0.39% 1.48%
ecseab03		002	0.0		0.0		48.2	
ecseac14			0.0		0.0		65.4	
ecsead08			0.0		0.0		85.9	
ecseae08		0	0.0		0.0		63.4	
ecseaf01			58.4		58.4		83.2	0.00%
ecseaf02			0.0		0.0		52.7	0.00%
ecseaf03	eCSE	4	0.9	0.00%	0.9	0.00%	32.5	0.00%
ecseaf04			0.0		0.0		65.2	0.00%
ecseaf06			0.0		0.0		59.0	
ecseag02			0.0		0.0		61.2	
ecseag03			0.0		0.0		63.0	
ecseag06			0.5		0.5		43.2	
ecseag08			0.0		0.0		58.4	
ecseag09			0.1	0.00%	0.1	0.00%	62.8	
ecseah03			0.0		0.0		120.6	
ecseah05			0.0		0.0		54.5	
ecseah06		0	0.0		0.0		109.8	
ecseah10			0.0		0.0		107.7	
ecseah11	eCSE	0	0.0	0.00%	0.0	0.00%	73.3	0.00%

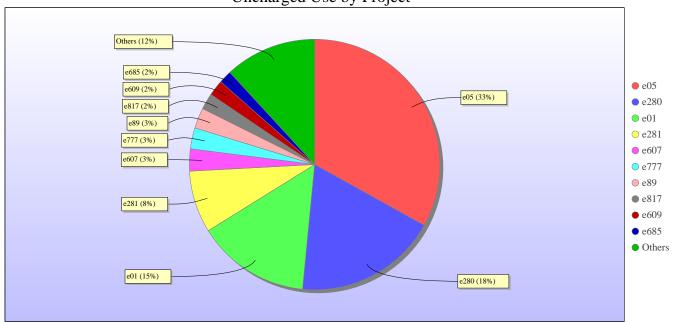
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseah12	eCSE	0	0.0	0.00%	0.0	0.00%	96.1	0.00%
ecseai03	eCSE	0	0.0	0.00%	0.0		76.4	0.00%
ecseai04	eCSE	0	0.0	0.00%	0.0	0.00%	104.1	0.00%
ecseai05	eCSE	0	0.0	0.00%	0.0	0.00%	124.8	0.00%
ecseai09	eCSE	0	0.0	0.00%	0.0	0.00%	105.2	0.00%
ecseai10	eCSE	0	0.0		0.0		96.0	0.00%
ecseai12	eCSE	0	0.0	0.00%	0.0	0.00%	59.0	0.00%
ecseaj02	eCSE	0	0.0	0.00%	0.0	0.00%	59.4	0.00%
ecseaj03	eCSE	0	0.0		0.0		109.0	0.00%
eCSE Total		60	59.9	0.00%	59.9	0.00%	2,140.0	0.05%
d35	Research	84	95.8	0.00%	96.0	0.00%	425.2	0.01%
d011	Research	266	118.3	0.00%	118.3		175.9	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	5,233.3	0.12%
d137	Research	0	0.0	0.00%	0.0	0.00%	1,325.3	0.03%
d142	Research	77	49.4	0.00%	49.4	0.00%	4,194.8	
d175	Research	0	0.0	0.00%	0.0	0.00%	1,695.9	0.04%
d183	Research	27	1,182.2	0.03%	1,197.0	0.03%	178.1	0.00%
d193	Research	0	0.0	0.00%	0.0	0.00%	226.6	0.01%
d435	Research	356	2,344.3	0.05%	2,344.7	0.05%	1,700.9	0.04%
d436	Research	0	0.0	0.00%	0.0	0.00%	340.2	0.01%
d437	Research	0	0.0	0.00%	0.0	0.00%	424.1	0.01%
i246	Research	71	0.0	0.00%	740.7	0.02%	0.1	0.00%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	84.8	0.00%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	715.1	0.02%
i18	Industrial	9	12.7	0.00%	12.7	0.00%	1,521.0	0.03%
i21	Industrial	7	0.0	0.00%	0.1	0.00%	8.5	0.00%
i26	Industrial	83	192.4	0.00%	192.4	0.00%	169.6	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	33.9	0.00%
i239	Industrial	569	1,872.0	0.04%	1,872.6		1,437.5	
i241	Industrial	3	48.0	0.00%	48.0	0.00%	1,590.5	0.04%
i242 i243	Industrial	74 0	574.0	0.01%	574.0	0.01% 0.00%	567.8 673.1	0.01% 0.02%
i243	Industrial Industrial	759	0.0 113.8	0.00% 0.00%	0.0 114.1	0.00%	689.7	0.02%
i244	Industrial	57	4,267.7	0.00%	4,378.7	0.00%	1,000.1	0.02%
m23oc	Training	0	0.0	0.00%	0.0		563.7	0.02 %
m23ol	Training	39	6.8		6.8		375.8	0.01%
m23ext	Training	0	0.0	0.00%	0.0	0.00%	105.9	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	6.0	0.00%
m23exts1	Training	0	0.0	0.00%	0.0	0.00%	111.6	0.00%
ta070	Training	9	145.1	0.00%	145.1	0.00%	200.0	0.00%
ta084	Training	0	0.0	0.00%	0.0	0.00%	764.8	
ta085	Training	0	0.0	0.000/	0.0	0.000/	38.3	
ta086	Training	0	0.0		0.0		19.1	0.00%
ta087	Training	0	0.0		0.0		19.1	0.00%
ta093	Training	26	306.0		306.0		749.8	
ta094	Training	344	0.7	0.00%	0.7	0.00%	2,555.1	0.06%
ta095	Training	0	0.0	0.00%	0.0		63.9	
ta096	Training	0	0.0		0.0			
ta097	Training	0	0.0	0.00%	0.0	0.00%	63.9	
ta109	Training	71	1,056.2	0.02%	1,056.2	0.02%	558.6	0.01%
ta110	Training	22	0.0		0.0	0.00%	19.0	
ta111	Training	0	0.0	0.00%	0.0		19.0	
ta112	Training	0	0.0	0.00%	0.0	0.00%	19.0	0.00%
ta116	Training	496	2,435.0		2,439.0	0.06%	923.6	
ta117	Training	0	0.0		0.0		52.6	
ta118	Training	0	0.0	0.00%	0.0	0.00%	80.3	0.00%
ta119	Training	0	0.0	0.00%	0.0	0.00%	102.5	
ta124	Training	0	0.0		0.0		19.1	0.00%
ta125	Training	14	0.8		0.8		19.1	0.00%
ta126	Training	4	0.0		0.0		31.8	
ta127	Training	63	331.5		1,058.6		661.5	
ta128	Training	0	0.0	0.00%	0.0		47.8	
ta129	Training	0	0.0	0.00%	0.0	0.00%	61.0	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
ta130	Training	0	0.0	0.00%	0.0	0.00%	25.4	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.2	0.00%
d194	Service	0	0.0	0.00%	0.0	0.00%	145.0	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	74.9	0.00%
y02	Service	209	10,540.6	0.24%	10,540.6	0.24%	4,252.3	0.10%
y07	Service	0	0.0	0.00%	0.0	0.00%	28.3	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	85.0	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	8.3	0.00%
z02	Service	2	0.0	0.00%	0.0	0.00%	8.5	0.00%
z19	Service	4,021	61,506.0	1.41%	63,220.2	1.45%	42,406.6	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	168.7	0.00%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.9	0.00%
DirectorsTime		7,762	87,199.3	2.00%	90,512.6	2.08%	79,936.3	1.83%
Total								
e572	Leadership	17	842.2	0.02%	842.2	0.02%	0.0	0.00%
	Awards							
Total		17	842.2	0.02%	842.2	0.02%	0.0	0.00%
Total		189,136	3,418,984.6	78.48%	3,872,129.5	88.88%	4,440,606.0	101.92%

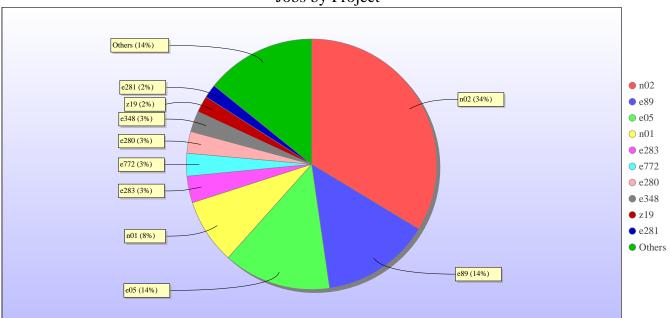




Uncharged Use by Project



Jobs by Project

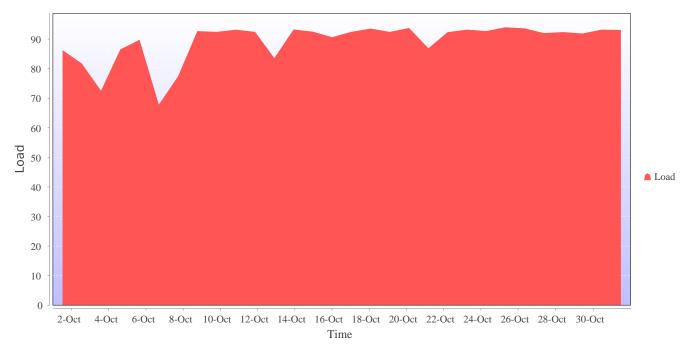


CUs (by Size)

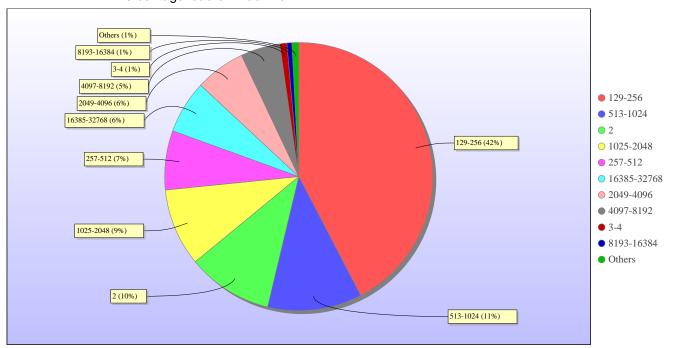
Size	CUs	Number of Jobs						
2	0	19,492						
3-4	0	1,602						
5-8	0	639						
9-16	0	33						
17-32	0	244						
33-64	0	2						
65-128	0	2						
129-256	190,636.708							
257-512	112,139.669	·						
513-1024	349,164.948	21,534						
1025-2048	514,233.028	17,693						

Size	CUs	Number of Jobs
2049-4096	425,851.783	11,423
4097-8192	529,835.585	9,011
8193-16384	296,721.617	1,137
16385-32768	370,105.769	12,079
32769-65536	303,553.174	267
65537-131072	257,272.617	132
131073-262144	59,071.595	211
262145-524288	6,576.355	12
524289-1048576	3,821.795	2

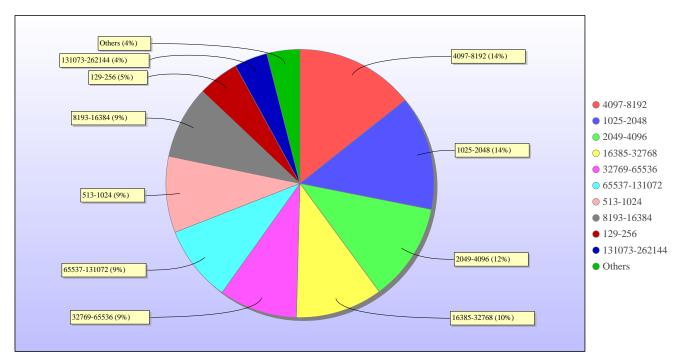
Load plots



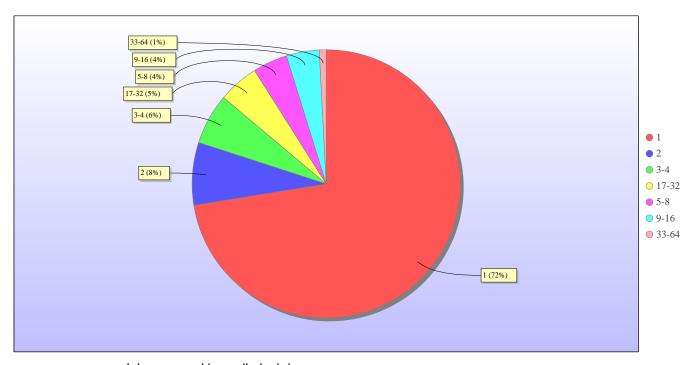
Percentage load on machine



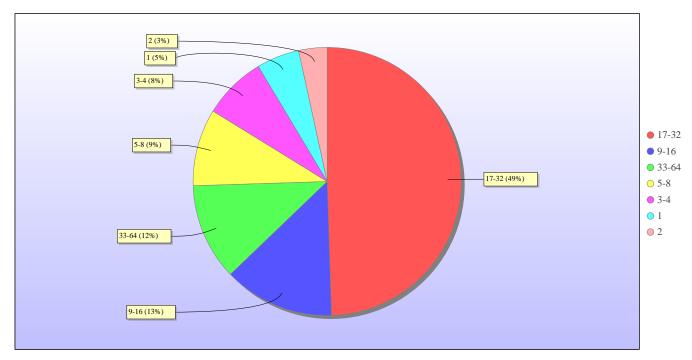
Jobs by Size



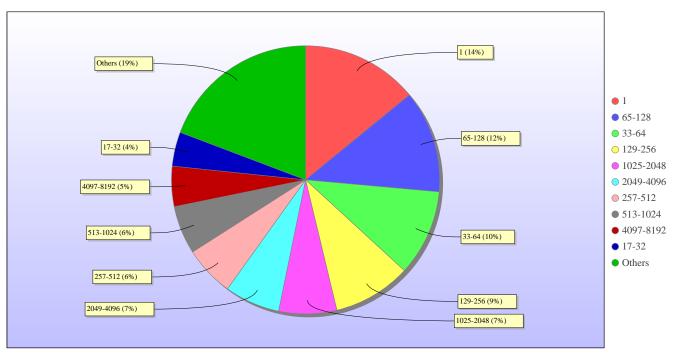
CUs used by Size



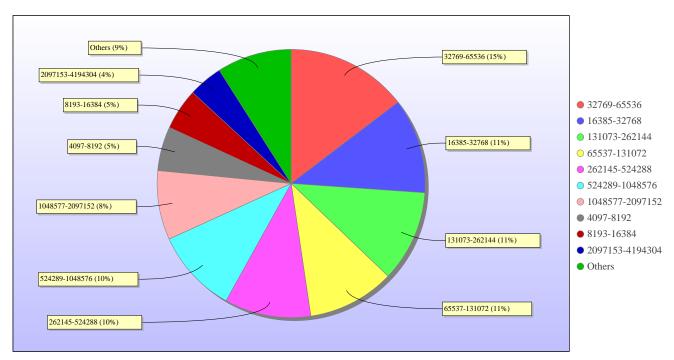
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

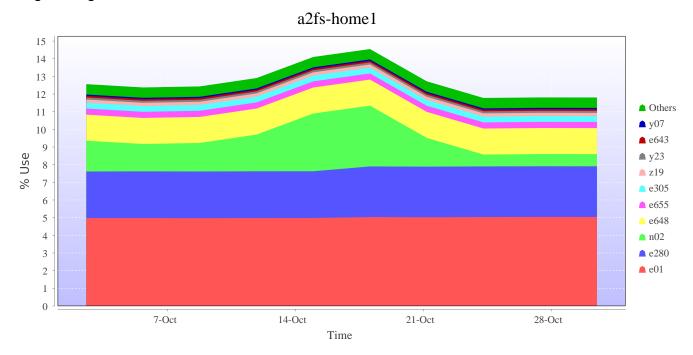


CUs used grouped by core-hours

Disk usage

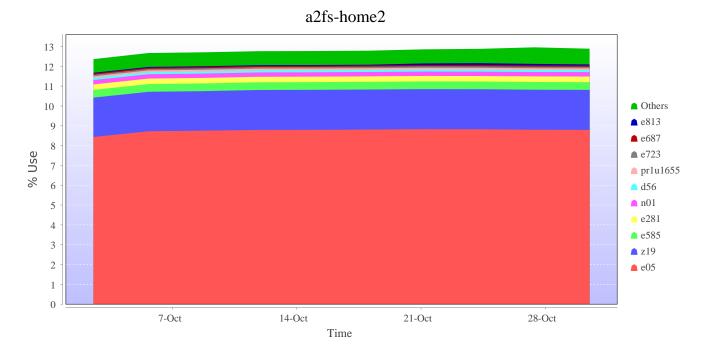
Disk usage for home (a2fs-home1)

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.



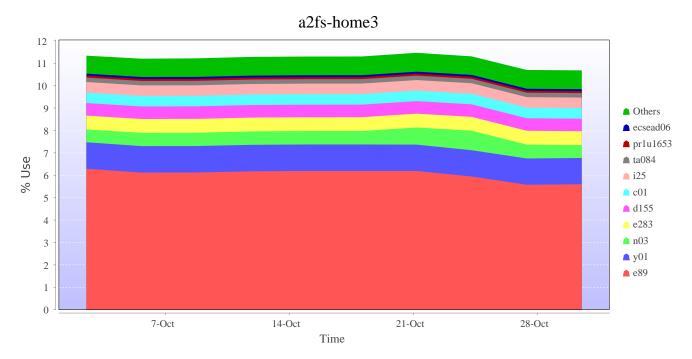
Disk usage for home (a2fs-home2)

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.



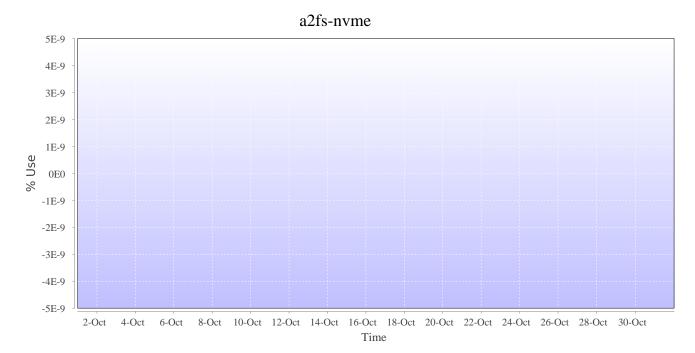
Disk usage for home (a2fs-home3)

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.



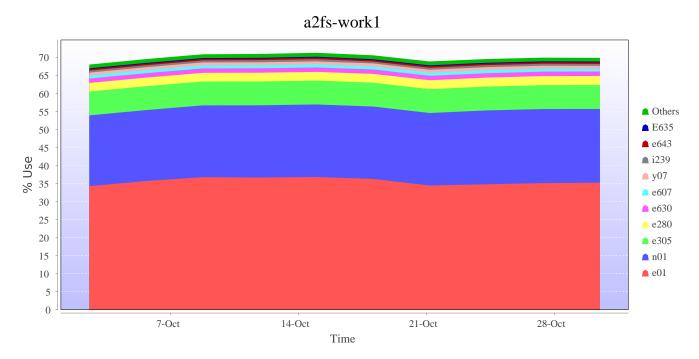
Disk usage for scratch (a2fs-nvme)

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.



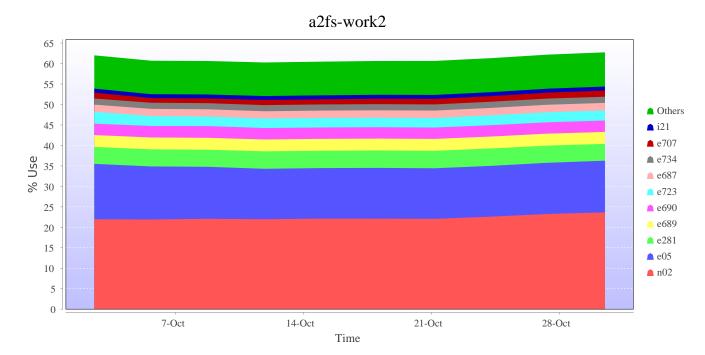
Disk usage for work (a2fs-work1)

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.



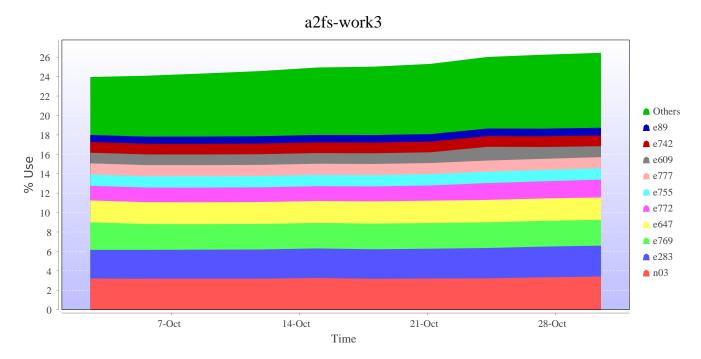
Disk usage for work (a2fs-work2)

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.



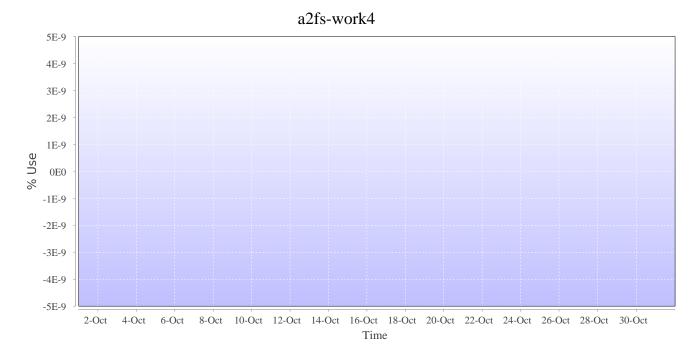
Disk usage for work (a2fs-work3)

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.



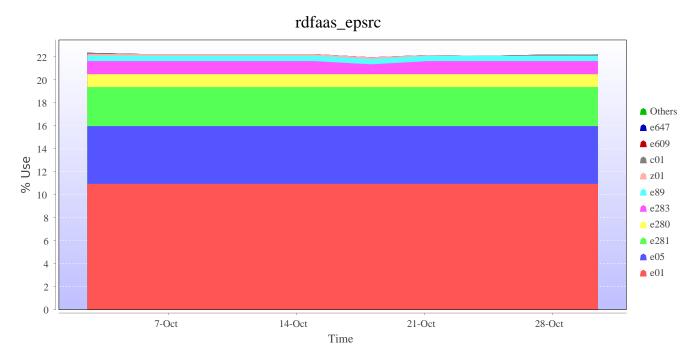
Disk usage for work (a2fs-work4)

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.



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.

