Monthly Reporting

Report from 01 September 2023 to 30 September 2023

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	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
•	Class	of Jobs	CUs	Utilisation			CUs	
e572	Leadership Awards	696	4,988.3	0.12%	4,988.3	0.12%	1,752.7	0.04%
e645	Leadership Awards	29	3,872.7	0.09%	3,872.7	0.09%	17,300.5	0.41%
e684	Leadership Awards	0	0.0	0.00%	0.0	0.00%	785.1	0.029
e760	Leadership Awards	42	640.6	0.02%	650.6	0.02%		
e786	Leadership Awards	10	315.9		315.9		9,393.5	
e787	Leadership Awards	13	255.6		255.6		291.2	
e683	Pioneer Projects	540	1,450.9	0.03%	1,450.9	0.03%	4,890.2	
e685	Pioneer Projects	72	1,871.1	0.04%	1,947.4		1,045.1	0.02%
e686	Pioneer Projects	514	2,402.1	0.06%	10,303.0		6,781.1	0.16%
e687	Pioneer Projects	337	65,653.2	1.56%	67,608.6	1.61%	21,256.1	0.50%
e688	Pioneer Projects	91	17,407.1	0.41%	17,416.6	0.41%	32,397.6	0.77%
e689	Pioneer Projects	3	13,839.2	0.33%	13,839.2	0.33%	22,494.9	
e690	Pioneer Projects	66	34,220.4	0.81%	34,221.3	0.81%	8,859.6	0.21%
e691	Pioneer Projects	45	28,868.6	0.69%	28,869.1	0.69%	24,928.3	0.59%
e692	Pioneer Projects	24	17,505.1	0.42%	19,039.0	0.45%	13,017.5	0.31%
e731	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	20,375.8	0.48%
e744	Pioneer Projects	151	4,299.8	0.10%	4,324.0	0.10%	11,415.8	0.27%
e808	Pioneer Projects	265	8,936.9	0.21%	10,820.8	0.26%	15,148.3	0.36%
e809	Pioneer Projects	15	9.6	0.00%	9.6	0.00%	7,612.6	0.18%
e810	Pioneer Projects	48	2,525.7	0.06%	3,379.9	0.08%	34,256.7	0.81%
e812	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	13,405.3	0.32%

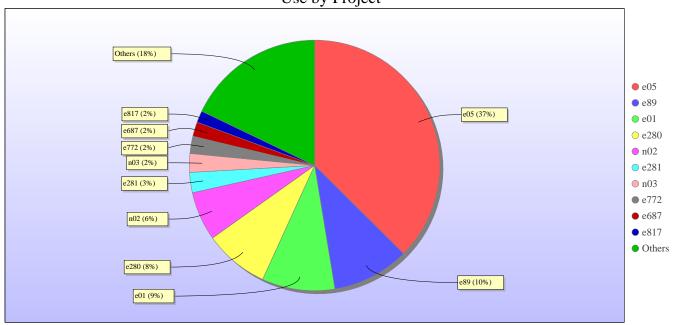
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e813	Pioneer Projects	531	3,282.9	0.08%	32,182.4	0.76%	22,610.6	0.54%
e814	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	7,690.7	0.18%
e815	Pioneer Projects	463	13,940.7		24,039.9	0.57%	20,303.4	0.48%
e817	Pioneer Projects	57	52,347.1	1.24%	55,395.0	1.32%	74,624.4	1.77%
c01	Class1a	1,266	26,019.6		33,309.6		23,795.8	
e348	Class1a	3,220	11,831.8		11,843.1	0.28%	19,629.3	
e575	Class1a	0	0.0		0.0		2,243.4	0.05%
e607	Class1a	229	5,116.6		39,191.7		8,242.8	
e609	Class1a	995	3,870.0		11,021.0		31,640.9	
e643	Class1a	43	1,917.5		6,930.2		8,150.3	0.19%
e647 e649	Class1a Class1a	316 20	1,355.1 6,831.5	0.03% 0.16%	1,451.8 6,832.6		33,198.9 813.6	
e649 e694	Class1a Class1a	0	0.0		0,832.6		2,741.3	0.02%
e694 e696	Class1a Class1a	0	0.0		0.0		375.9	
e697	Class1a Class1a	14	848.8		2,268.4	0.05%	10,612.4	0.01%
e700	Class1a Class1a	0	0.0		0.0		866.5	0.23%
e701	Class1a	0	0.0		0.0		2,689.6	
e705	Class1a	26	271.1	0.01%	271.1	0.01%	3,635.8	
e707	Class1a	38	29,847.7	0.71%	31,664.3		9,247.7	0.22%
e708	Class1a	0	0.0		0.0		1,682.6	
e710	Class1a	95	107.9		107.9		3,257.9	
e712	Class1a	0	0.0	0.00%	0.0		9,780.4	
e720	Class1a	135	5,723.8		5,915.1	0.14%	21,837.5	
e721	Class1a	0	0.0	0.00%	0.0		2,312.6	
e728	Class1a	36	365.8	0.01%	365.8	0.01%	1,991.3	0.05%
e751	Class1a	222	5,335.7	0.13%	5,336.2	0.13%	4,886.9	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	2,943.4	0.07%
e758	Class1a	84	7,914.2		7,914.2		3,236.8	0.08%
e763	Class1a	0	0.0	0.00%	0.0		978.0	0.02%
e764	Class1a	4	0.4	0.00%	0.4		16,517.8	
e769	Class1a	323	7,130.3		8,451.4		28,031.9	
e770	Class1a	11	11.8		11.8		6,381.6	
e793	Class1a	0	0.0		0.0		30,607.0	0.73%
e820	Class1a	43	1.0		1.0		5,018.0	0.12%
e821	Class1a	0	0.0	0.00%	0.0		245.8	
e6337	Class1a	7	3,363.5		3,363.5		1,349.0	0.03%
ec110	Class1a	0	0.0		0.0		841.3 401,890.6	
e01 e05	Consortia	2,213 39,368	231,184.2 594,646.7		343,935.8 1,368,215.7		906,615.8	
e89	Consortia Consortia	72,864	304,624.5		364,314.4		362,200.6	
e280	Consortia	5,345	94,837.6		305,105.3		245,031.3	
e281	Consortia	2,374	86,503.8		95,508.3		107,116.3	2.54%
e283	Consortia	3,671	48,152.5		48,824.9		64,884.3	
e772	Consortia	3,249	81,616.2		81,855.5		73,509.4	
e773	Consortia	201	7,160.1	0.17%	7,160.1		29,025.4	
e788		0	0.0		0.0		502.1	0.01%
e790		0	0.0		0.0		555.4	
e791		0	0.0		0.0		526.2	
e792		33	284.7	0.01%	284.7	0.01%	526.2	0.01%
e794		0	0.0	0.00%	0.0	0.00%	655.6	
e805	Pump Priming	0	0.0	0.00%	0.0	0.00%	626.3	0.01%
e811	Pump Priming	14	1,315.6	0.03%	1,315.6	0.03%	648.5	0.02%
e818	. 0	68	3,743.7		3,762.2		652.0	
e819		0	0.0		0.0		652.0	
e823		20	87.9		87.9		608.0	0.01%
e824		54	119.0		119.0		129.8	
e837	Pump Priming	0	0.0		0.0		169.0	
ta120	Training	0	0.0		0.0		245.9	
ta124	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
ta125		6	0.0		0.0		18.4	0.00%
ta126		2	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta127	Training	6	126.9	0.00%	127.2	0.00%	221.3	0.01%
	Access to HPC	6	264.4 0.0	0.01% 0.00%	264.4 0.0	0.01% 0.00%	5,216.4	
	Access to HPC Access to HPC	0	0.0		0.0	0.00%	3,657.9 3,016.6	
	Access to HPC	187	1,042.0	0.00%	1,042.0		3,857.4	0.09%
	Access to HPC	75	421.1	0.01%	421.1	0.01%	9,845.6	
	Access to HPC	89	3,317.8	0.08%	3,317.8		1,639.8	
e743	Access to HPC	650	4,677.8	0.11%	4,678.1	0.11%	11,212.8	0.27%
	Access to HPC	4	0.0		29.5		0.2	0.00%
	Access to HPC	260	532.0	0.01%	532.1	0.01%	21,032.1	0.50%
	Access to HPC	33	11,296.4	0.27%	11,296.4	0.27%	7,198.4	0.17%
	Access to HPC	192	140.9		140.9		10,171.6	
	Access to HPC	112	1,869.0 3,707.6	0.04% 0.09%	1,869.0		16,300.7 6,018.2	0.39% 0.14%
	Access to HPC Access to HPC	56 7	3,707.6	0.09%	3,707.6 405.6		7,335.3	0.14%
	Access to HPC	165	2,361.9		2,364.2		815.0	0.17%
	Access to HPC	103	1,068.8		1,068.8	0.03%	5,748.3	0.14%
	Access to HPC	237	384.3		529.8		3,260.1	0.08%
	Access to HPC	0	0.0		0.0		769.8	
	Access to HPC	124	2,667.0		2,667.0	0.06%	10,810.7	0.26%
e789	Access to HPC	30	1,407.4	0.03%	1,407.4	0.03%	11,032.3	0.26%
e795	Access to HPC	23	337.5	0.01%	339.9	0.01%	6,761.7	0.16%
	Access to HPC	3	190.3	0.00%	190.3	0.00%	6,520.3	0.15%
	Access to HPC	65	766.9	0.02%	766.9	0.02%	6,572.4	0.16%
	Access to HPC	0	0.0		0.0		4,890.2	0.12%
	Access to HPC	2	38.5		38.5	0.00%	815.0	0.02%
	Access to HPC	12	2,263.2		2,263.2	0.05%	4,890.2	0.12%
	Access to HPC	105	670.5		671.7	0.02%	13,578.4	0.32%
	Access to HPC Access to HPC	0	0.0	0.00% 0.00%	0.0	0.00% 0.00%	3,996.3 2,190.8	0.09% 0.05%
	Access to HPC	187	4,828.1	0.00%	4,828.1	0.00%	10,758.4	0.26%
	Access to HPC	64	4,938.8		4,938.8		1,265.6	
	Access to HPC	20	1.3		1.3		8,535.9	0.20%
EPSRC Total		143,345	1,900,400.7	45.13%	3,181,577.7	75.56%	3,099,720.0	73.62%
n01	Consortia	2,616	37,789.8	0.90%	38,914.8		99,836.1	2.37%
n02	Consortia	41,495	229,563.2		231,391.5	5.50%	415,655.7	9.87%
n03	Consortia	1,546	86,839.6		88,143.9	2.09%	69,672.1	1.65%
ta123		0	0.0	0.00%	0.0	0.00%	0.7	0.00%
NERC Total		45,657	354,192.7	8.41%	358,450.3		585,164.7	13.90%
b19	Class1a	130 130	2,763.7	0.07% 0.07%	2,788.6		3,016.1	0.07% 0.07%
BBSRC Total e756	Leadership	108	2,763.7 340.6		2,788.6 340.6		3,016.1 8,785.1	0.07%
6/30	Awards		340.0	0.01%	340.0	0.01%	0,700.1	U.Z I %
e760	Leadership	31	521.0	0.01%	527.8	0.01%	182.8	0.00%
e723	Awards Class1a	2,803	9,553.5	0.23%	29,900.4	0.71%	37,305.7	0.89%
e723			9,555.5		29,900.4		16,300.7	
UKRI Total		2,954	10,440.6		30,794.4	0.73%	62,574.3	
ecseab03		0	0.0		0.0		46.6	
ecseac14		0	0.0		0.0		63.2	0.00%
ecsead08	eCSE	5	0.0	0.00%	1,282.4	0.03%	83.0	0.00%
ecseaf01		0	0.0		0.0		80.4	0.00%
ecseaf02		0	0.0		0.0		51.0	0.00%
ecseaf03		12	2.0		2.0		49.1	0.00%
ecseaf04		0	0.0		0.0	0.00%	63.0	
ecseaf06		0	0.0		0.0		97.6	
ecseag02		34	126.7	0.00%	126.7	0.00%	84.3	
ecseag03		0	0.0	0.00% 0.00%	0.0 0.1	0.00% 0.00%	60.9 41.7	0.00% 0.00%
ecseag06 ecseag08		5 0	0.1		0.1		41.7 56.5	
ecseag06 ecseag09			3.3		15.1	0.00%	60.7	
ecseagu9	ecse	11	3.3	0.00%	15.1	0.00%	60.7	0.00%

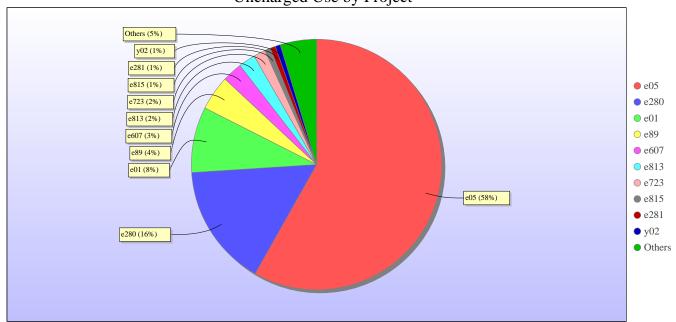
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseah03	eCSE	0	0.0	0.00%	0.0	0.00%	116.6	0.00%
ecseah05	eCSE	0	0.0	0.00%	0.0	0.00%	52.6	0.00%
ecseah06	eCSE	0	0.0	0.00%	0.0	0.00%	106.1	0.00%
ecseah10	eCSE	0	0.0	0.00%	0.0	0.00%	104.1	0.00%
ecseah11	eCSE	0	0.0	0.00%	0.0	0.00%	70.8	0.00%
ecseah12	eCSE	5	20.4	0.00%	20.4	0.00%	92.8	0.00%
ecseai03	eCSE	0	0.0	0.00%	0.0	0.00%	73.8	0.00%
ecseai04	eCSE	0	0.0	0.00%	0.0	0.00%	100.6	0.00%
ecseai05	eCSE	0	0.0	0.00%	0.0	0.00%	120.6	0.00%
ecseai09	eCSE	0	0.0	0.00%	0.0	0.00%	101.7	0.00%
ecseai10	eCSE	0	0.0	0.00%	0.0	0.00%	92.8	0.00%
ecseai12	eCSE	0	0.0	0.00%	0.0	0.00%	57.0	0.00%
ecseaj02	eCSE	0	0.0	0.00%	0.0	0.00%	57.4	0.00%
ecseaj03	eCSE	0	0.0	0.00%	0.0	0.00%	105.3	0.00%
eCSE Total		72	152.5	0.00%	1,446.6	0.03%	2,090.2	0.05%
d35	Research	48	3.1	0.00%	4.7	0.00%	411.0	0.01%
d011	Research	34	0.9	0.00%	0.9	0.00%	170.0	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	5,057.7	0.12%
d137	Research	345	12,395.1	0.29%	18,544.8		1,631.7	0.04%
d142	Research	13	302.7	0.01%	302.7	0.01%	4,054.1	0.10%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,639.0	0.04%
d183	Research	0	0.0	0.00%	0.0		8.2	0.00%
d193	Research	12	1.8	0.00%	1.8	0.00%	328.8	0.01%
d435	Research	493	3,120.4	0.07%	3,120.5	0.07%	1,643.8	0.04%
d436	Research	0	0.0	0.00%	0.0	0.00%	328.8	0.01%
i246	Research	57	0.0	0.00%	612.1	0.01%	0.1	0.00%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	691.1	0.02%
i21	Industrial	46	0.3	0.00%	0.5	0.00%	8.2	0.00%
i219	Industrial	0	0.0	0.00%	0.0		32.8	0.00%
i239	Industrial	588	2,199.0	0.05%	2,199.0	0.05%	1,046.6	0.02%
i241	Industrial	0	0.0	0.00%	0.0	0.00%	2,272.2	0.05%
i242	Industrial	27	18.7	0.00%	18.7	0.00%	548.8	0.01%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	376.6	
i244	Industrial	358	229.6		229.7	0.01%	377.8	
i247	Industrial	35	3,283.6		3,347.1	0.08%	2,192.4	0.05%
m22oc	Training	0	0.0	0.00%	0.0	0.00%	379.7	0.01%
m22ol	Training	0	0.0	0.00%	0.0	0.00%	379.7	0.01%
m23oc	Training	0	0.0	0.00%	0.0	0.00%	544.8	0.01%
m23ol	Training	0	0.0	0.00%	0.0	0.00%	363.2	0.01%
m22ext	Training	0	0.0	0.00%	0.0	0.00%	151.9	0.00%
m23ext	Training	0	0.0	0.00%	0.0	0.00%	68.3	0.00%
mdisspt		0	0.0		0.0		143.9	
m22exts1	Training	0	0.0		0.0		75.9	
m23exts1	Training	0	0.0	0.00%	0.0	0.00%	61.1	0.00%
ta084		0	0.0		0.0		739.2	
ta085	-	0	0.0	0.00%	0.0	0.00%	37.0	
ta086		0	0.0		0.0		18.5	
ta087	Training	0	0.0		0.0		18.5	
ta093		46	0.0	0.00%	4,834.6		724.6	
ta094		97	80.0		519.8		2,469.3	
ta095	Training	0	0.0		0.0		61.7	0.00%
ta096		0	0.0		0.0		61.7	0.00%
ta097	Training	0	0.0	0.00%	0.0	0.00%	61.7	0.00%
ta109		140	671.7	0.02%	671.7	0.02%	490.8	
ta110		14	0.0		0.0		18.4	
ta111	Training	0	0.0	0.00%	0.0		18.4	0.00%
ta112		0	0.0	0.00%	0.0		18.4	0.00%
ta115		0	0.0		0.0		167.1	0.00%
ta116		183	698.8		705.0		892.6	
ta117	Training	188	430.6		288.7	0.01%	315.8	
ta118	9	2	0.0		0.0		126.8	
ta119	-	202	2.7	0.00%	2.7	0.00%	113.9	
ta121	Training	12	0.0	0.00%	0.0	0.00%	147.5	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
ta122	Training	462	4.3	0.00%	4.3	0.00%	147.5	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
d194	Service	0	0.0	0.00%	0.0	0.00%	140.2	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	72.4	0.00%
y02	Service	228	1,445.4	0.03%	10,099.0	0.24%	4,109.6	0.10%
y07	Service	0	0.0	0.00%	0.0	0.00%	80.2	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	82.2	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	8.0	0.00%
z02	Service	20	0.0	0.00%	0.0	0.00%	8.2	0.00%
z19	Service	6,279	28,013.8	0.67%	28,854.2	0.69%	40,983.6	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	163.0	0.00%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.8	0.00%
DirectorsTime		9,929	52,902.6	1.26%	74,362.4	1.77%	77,290.0	1.84%
Total								
e761	Class1a	14	5,376.7	0.13%	5,376.7	0.13%	0.0	0.00%
Total		14	5,376.7	0.13%	5,376.7	0.13%	0.0	0.00%
Total		202,101	2,326,229.6	55.25%	3,654,796.7	86.80%	3,829,855.3	90.96%

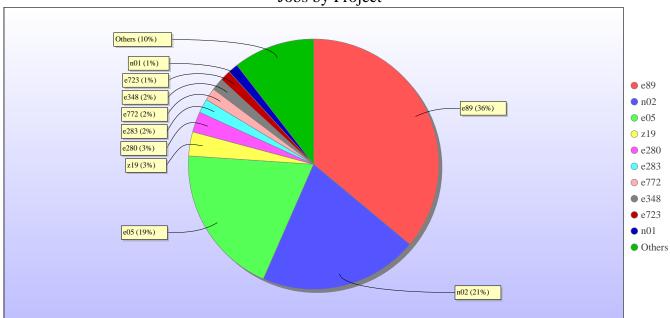
Use by Project



Uncharged Use by Project



Jobs by Project

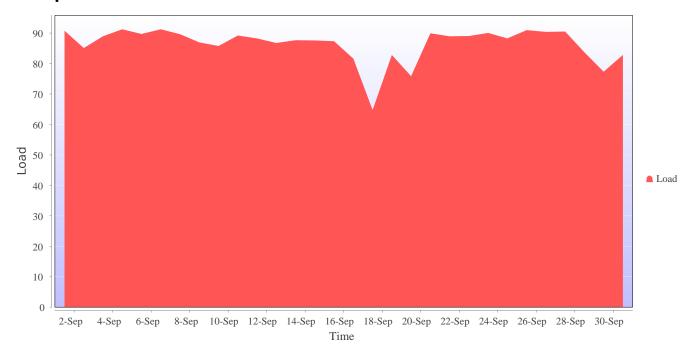


CUs (by Size)

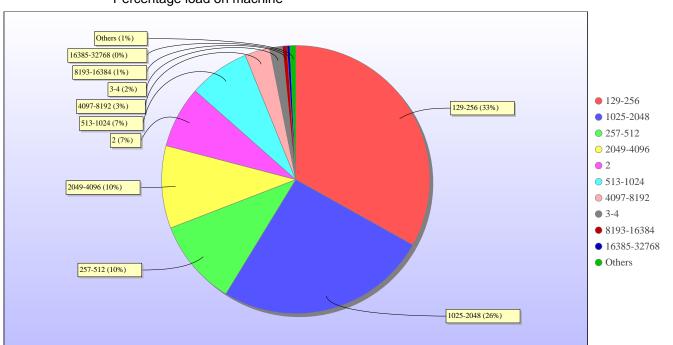
Size	CUs	Number of Jobs					
2	0	15,037					
3-4	0	3,123					
5-8	0	614					
9-16	0	67					
17-32	0	175					
33-64	0	2					
65-128	0	6					
129-256	,	·					
257-512	105,534.785						
513-1024	297,309.463						
1025-2048	325,057.699	51,803					

Size	CUs	Number of Jobs
2049-4096	323,030.505	20,087
4097-8192	441,137.193	6,087
8193-16384	222,778.43	1,095
16385-32768	200,882.601	705
32769-65536	165,278.553	205
65537-131072	39,824.122	114
131073-262144	42,186.622	218
262145-524288	1,148.587	13
524289-1048576	0	1

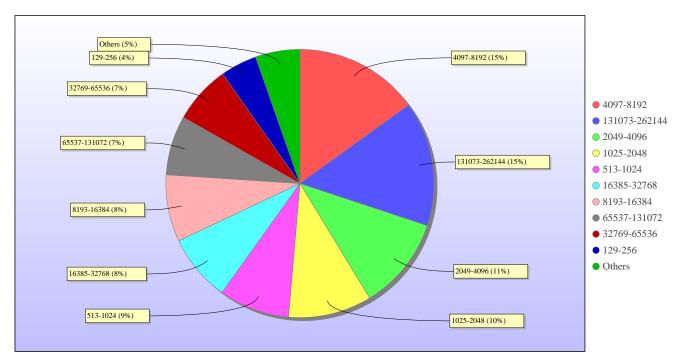
Load plots



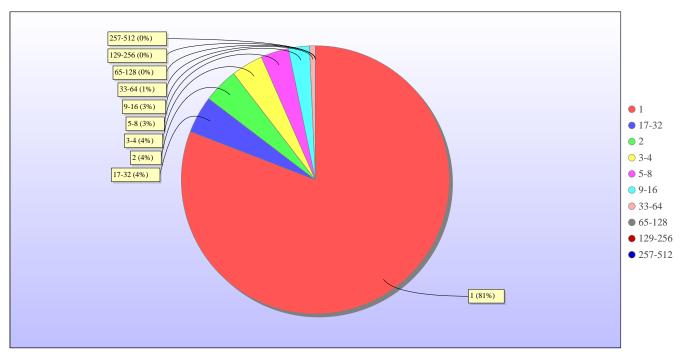
Percentage load on machine



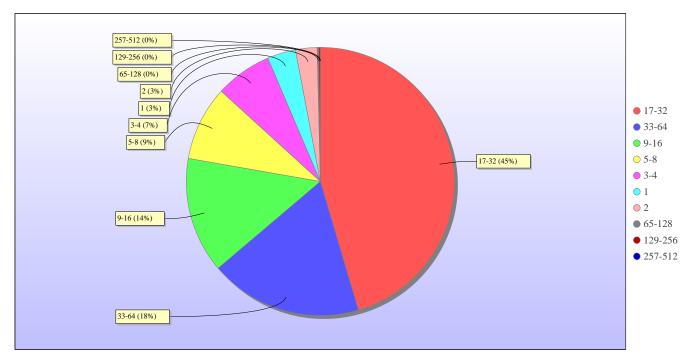
Jobs by Size



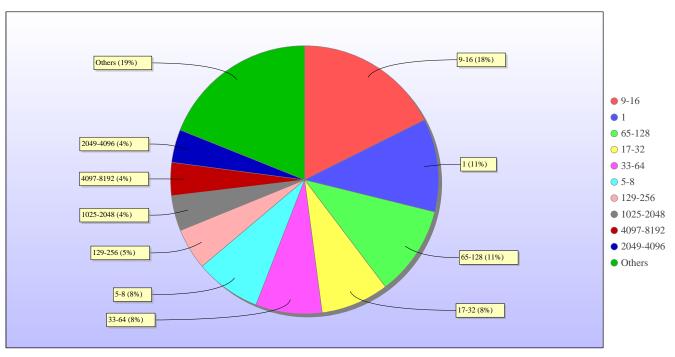
CUs used by Size



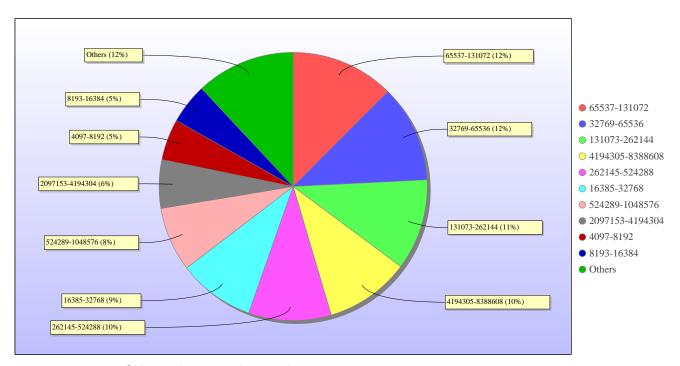
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

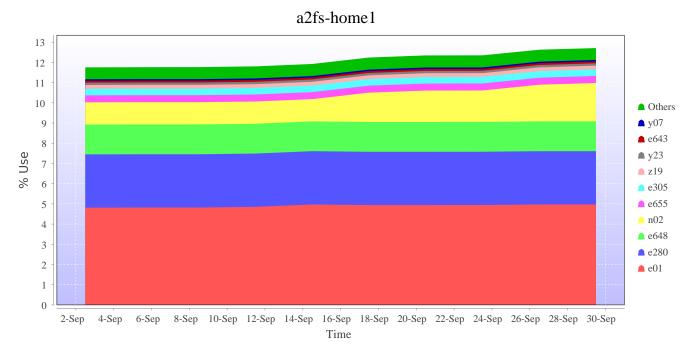


CUs used grouped by core-hours

Disk usage

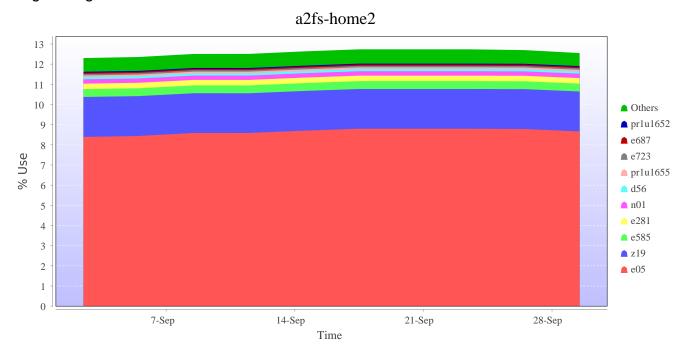
Disk usage for home (a2fs-home1)

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.



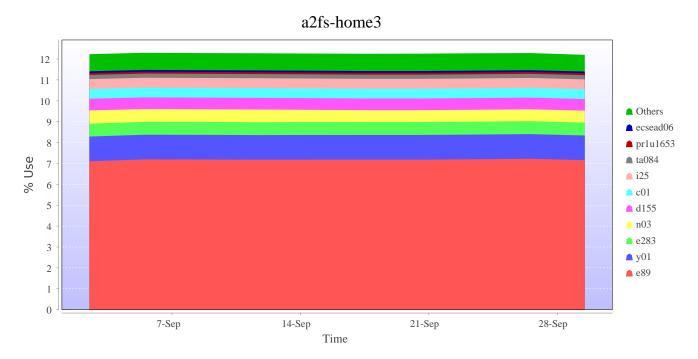
Disk usage for home (a2fs-home2)

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.



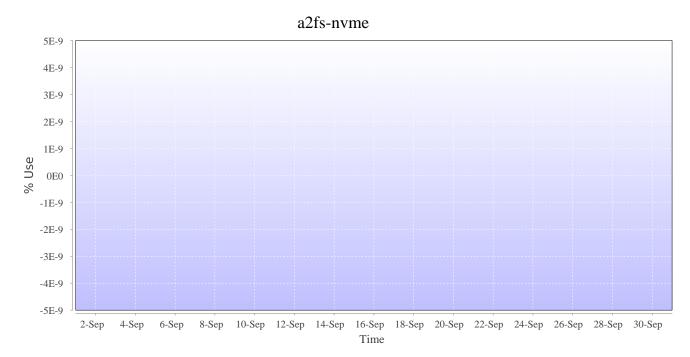
Disk usage for home (a2fs-home3)

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.



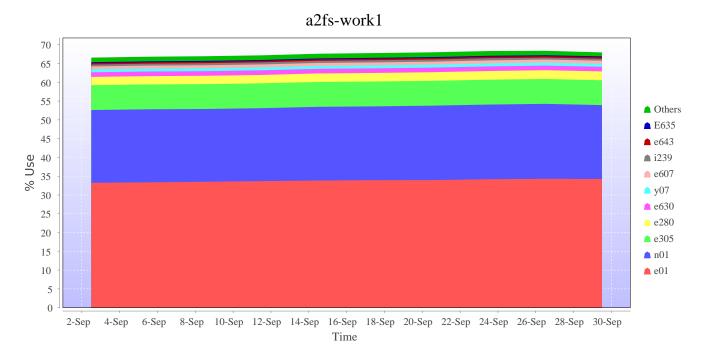
Disk usage for work-nVME (a2fs-nvme)

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.



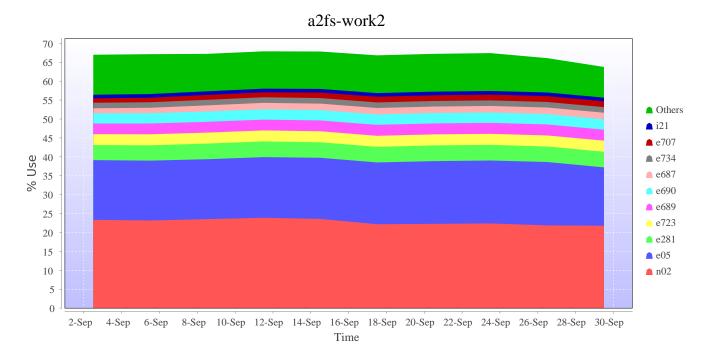
Disk usage for work (a2fs-work1)

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.



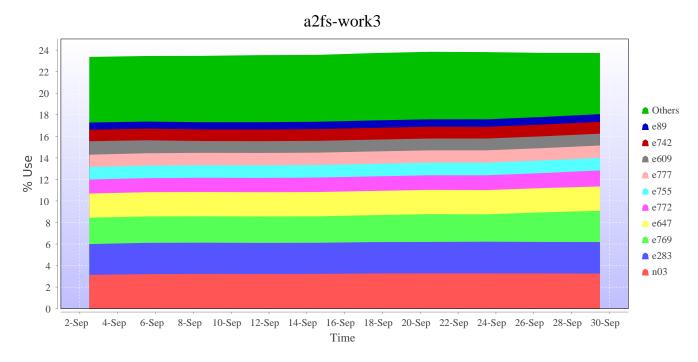
Disk usage for work (a2fs-work2)

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.



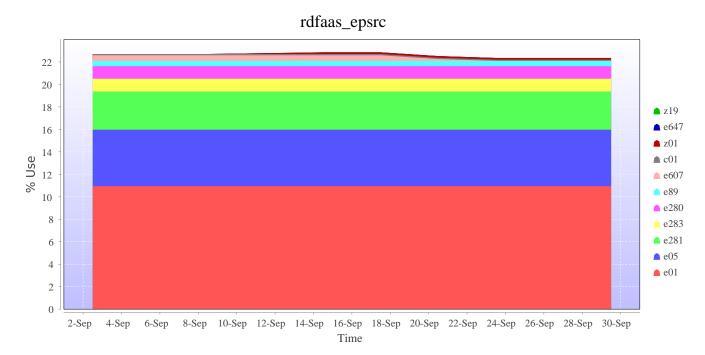
Disk usage for work (a2fs-work3)

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 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.

