Monthly Reporting

Report from 01 August 2023 to 31 August 2023

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	
e572	Leadership Awards	1,599	828.5	0.02%	833.2	0.02%	1,811.1	0.04%
e645	Leadership	4,882	6,710.8	0.15%	6,735.7	0.15%	17,877.2	0.41%
00.10	Awards	1,002	0,7 10.0	0.1070	0,700.7	0.1070	17,017.2	0.1170
e684	Leadership Awards	47	91.9	0.00%	91.9	0.00%	811.3	0.02%
e786	Leadership Awards	71	596.2	0.01%	596.2	0.01%	8,070.0	0.19%
e787	Leadership Awards	13	6.8	0.00%	6.8	0.00%	300.9	0.01%
e683	Pioneer Projects	842	3,483.5	0.08%	3,501.7	0.08%	5,053.2	0.12%
e685	Pioneer Projects	435	2,249.6	0.05%	8,386.7	0.19%	1,080.0	0.02%
e686	Pioneer Projects	1,170	533.8	0.01%	24,556.6	0.56%	5,650.9	0.13%
e687	Pioneer Projects	361	56,094.5	1.29%	64,046.2	1.47%	21,964.6	0.50%
e688	Pioneer Projects	260	19,874.5	0.46%	19,971.6	0.46%	33,477.5	0.77%
e689	Pioneer Projects	26	50.2	0.00%	50.2	0.00%	23,244.7	0.53%
e690	Pioneer Projects	86	15,593.0	0.36%	16,818.5	0.39%	9,154.9	0.21%
e691	Pioneer Projects	5	3.5	0.00%	13.4	0.00%	25,759.2	0.59%
e692	Pioneer Projects	1	3,072.0	0.07%	3,072.0	0.07%	13,451.4	0.31%
e731	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	21,055.0	0.48%
e744	Pioneer Projects	136	51.5	0.00%	51.5	0.00%	11,796.3	0.27%
e808	Pioneer Projects	611	10,987.2	0.25%	17,560.2	0.40%	15,653.3	0.36%
e809	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	7,866.4	0.18%
e810	Pioneer Projects	185	55,449.2	1.27%	70,919.4	1.63%	35,398.6	0.81%
e812	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	13,852.2	0.32%
e813	Pioneer Projects	361	27,845.1	0.64%	37,601.5	0.86%	23,364.2	0.54%

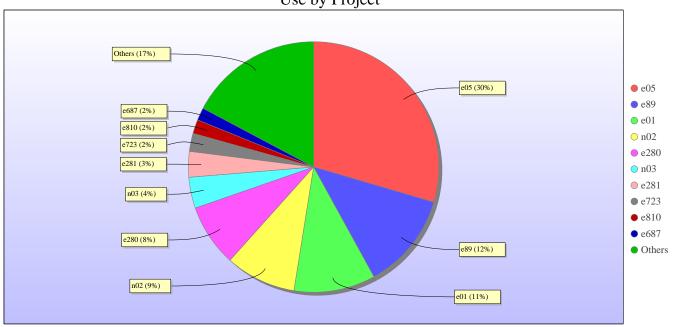
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e814	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	7,947.0	0.18%
e815	Pioneer Projects	630	13,121.9	0.30%	44,689.9	1.03%	20,980.1	0.48%
e817	Pioneer Projects	75	21,420.5	0.49%	23,138.5	0.53%	77,111.9	1.77%
c01	Class1a	1,173	15,996.3	0.37%	16,887.8	0.39%	24,589.0	0.57%
e348	Class1a	3,010	11,234.0		11,258.4		20,283.6	
e575	Class1a	0	0.0		0.0		2,318.2	0.05%
e607	Class1a	739	3,967.8	0.09%	44,956.8		8,517.5	0.20%
e609	Class1a	1,926	5,756.3	0.13%	35,948.4		32,695.6	0.75%
e643	Class1a	79	5,306.0		5,306.0		8,422.0	0.19%
e647	Class1a	448	2,837.8		3,386.7			0.79%
e649	Class1a	0	0.0	0.00%	0.0		840.7	0.02%
e667	Class1a	0	0.0		0.0		1,786.2	0.04%
e694 e696	Class1a	0 154	0.0 543.2		0.0 543.2		2,832.7 388.4	0.07% 0.01%
e697	Class1a Class1a	76	1,919.9	0.01%	20,353.1	0.01% 0.47%	10,966.1	0.01%
e700	Class1a Class1a	1	48.0	0.04%	48.0		895.4	0.25%
e700	Class1a Class1a	0	0.0	0.00%	0.0		2,779.3	0.02%
e701	Class1a Class1a	3	194.5	0.00%	194.5			0.07%
e707	Class1a	24	2,050.7	0.05%	2,050.7		9,556.0	0.22%
e708	Class1a	0	0.0		0.0		1,738.7	0.04%
e710	Class1a	241	2,776.6		2,776.6		3,366.5	
e712	Class1a	0	0.0		0.0		10,106.4	0.23%
e720	Class1a	482	22,052.4	0.51%	23,937.9		22,565.4	0.52%
e721	Class1a	0	0.0		0.0		2,389.7	0.05%
e728	Class1a	172	1,730.4	0.04%	1,730.4		2,057.7	0.05%
e751	Class1a	311	4,872.5	0.11%	4,898.7	0.11%	5,049.8	0.12%
e752	Class1a	0	0.0	0.00%	0.0		3,041.5	
e758	Class1a	0	0.0	0.00%	0.0		3,872.7	0.09%
e761	Class1a	32	6,150.9	0.14%	6,150.9		1,275.9	0.03%
e763	Class1a	0	0.0		0.0			
e764	Class1a	27	854.6		854.6		17,068.4	0.39%
e769	Class1a	2,075	25,137.9		25,273.3		28,966.3	0.67%
e770	Class1a	0	0.0		0.0		6,594.3	0.15%
e793 e820	Class1a Class1a	0 27	0.0 140.3	0.00% 0.00%	0.0 140.3		31,627.3 5,185.3	0.73% 0.12%
e821	Class1a Class1a	0	0.0		0.0		254.0	0.12%
e6337	Class1a Class1a	0	0.0	0.00%	0.0		1,394.0	0.01%
ec110	Class1a Class1a	0	0.0		0.0		869.3	0.03%
e01	Consortia	2,482	188,818.0		414,614.1			
e05	Consortia	31,975	818,404.2		1,164,275.3			
e89	Consortia	100,119	415,862.3		491,347.0			
e280	Consortia	5,264	75,842.7		317,391.4			
e281	Consortia	3,310	81,148.4		130,460.1			
e283	Consortia	4,017	27,225.9		27,854.8			1.54%
e772	Consortia	606	20,848.7		20,877.6			1.75%
e773	Consortia	558	10,141.9		10,156.6			
e766		3	387.5	0.01%	387.5	0.01%	400.0	0.01%
e771	Pump Priming	0	0.0		0.0			
e784	Pump Priming	49	1,266.3	0.03%	1,266.3			0.01%
e785	Pump Priming	5	2.0		2.0			
e788	Pump Priming	0	0.0	0.00%	0.0			
e789		1	0.1	0.00%	0.1			
e790		5	74.9		74.9			
e791	Pump Priming	0	0.0	0.00%	0.0			
e792	Pump Priming	26	540.4	0.01%	540.4			
e794	Pump Priming	0 10	0.0		0.0			
e805 e811	Pump Priming Pump Priming	74	1,209.8 2,697.8		1,209.8 2,697.8			0.01% 0.02%
e811 e818	Pump Priming Pump Priming	133	2,697.8	0.06%	2,697.8			
e819		0	0.0		0.0			
6019	i unip Filining	Ų	0.0	0.00%	0.0	0.00%	309.5	0.01%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
e823	1 0	0	0.0		0.0		283.7	0.01%
ta120	0	0	0.0 1.000.8	0.00%	0.0	0.00%	139.3	0.00%
	Access to HPC Access to HPC	89 0	1,000.8		1,000.8 0.0	0.02% 0.00%	5,390.3 3,779.8	0.12% 0.09%
	Access to HPC	28	242.9	0.01%	242.9	0.01%	3,117.2	0.09%
	Access to HPC	15	0.1	0.00%	0.1	0.00%	3,986.0	0.09%
	Access to HPC	138	2,725.4	0.06%	10,698.8		10,173.8	0.23%
e742	Access to HPC	3	1,440.3	0.03%	1,440.3	0.03%	1,694.5	0.04%
e743	Access to HPC	838	11,187.0		11,275.7	0.26%	11,586.5	0.27%
	Access to HPC	10	630.6		630.6	0.01%	51,458.6	1.18%
	Access to HPC	607	3,280.7	0.08%	3,280.7	0.08%	21,733.2	0.50%
	Access to HPC Access to HPC	30 327	13,654.7 1,074.7	0.31% 0.02%	14,404.5 1,074.7	0.33% 0.02%	7,438.3 10,510.7	0.17% 0.24%
	Access to HPC	82	4,368.7	0.02 %	4,368.7	0.02 %	16,844.0	0.24%
	Access to HPC	7	391.7	0.01%	391.7	0.01%	6,218.8	0.14%
	Access to HPC	3	249.3	0.01%	249.3		7,579.8	0.17%
e779	Access to HPC	0	0.0	0.00%	0.0		842.2	0.02%
	Access to HPC	17	2,221.3	0.05%	2,221.3	0.05%	5,939.9	0.14%
	Access to HPC	51	4.9	0.00%	4.9	0.00%	3,368.8	0.08%
	Access to HPC	0	0.0		0.0	0.00%	795.5	0.02%
	Access to HPC	118	249.2		249.2	0.01%	5,021.1	0.12%
	Access to HPC Access to HPC	115 0	3,416.2 0.0	0.08% 0.00%	3,436.7 0.0	0.08% 0.00%	6,987.1 6,737.6	0.16% 0.15%
	Access to HPC	620	9,962.4	0.00%	10,031.3		6,737.6	0.15%
	Access to HPC	69	53.3	0.00%	53.3	0.00%	5,053.2	0.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	842.2	0.02%
e800	Access to HPC	157	16,041.8		16,083.6		5,053.2	0.12%
e801	Access to HPC	79	10,375.1	0.24%	10,595.0	0.24%	14,031.1	0.32%
	Access to HPC	0	0.0		0.0	0.00%	4,129.5	
	Access to HPC	20	33.1	0.00%	33.1	0.00%	2,263.8	0.05%
	Access to HPC	62	386.6		386.6		11,117.0	0.26%
EPSRC Total	Access to HPC	0 174,918	0.0 2,079,414.7	0.00% 47.79%	0.0 3,224,966.4	0.00% 74.12%	4,267.9 3,241,880.9	0.10% 74.51%
n01	Consortia	3,096	32,817.7		32,623.9		103,163.9	2.37%
n02	Consortia	53,760	350,752.7	8.06%	359,344.1	8.26%	429,510.9	9.87%
n03	Consortia	3,624	153,280.2		157,591.1	3.62%	71,994.5	1.65%
ta123	Training	0	0.0		0.0	0.00%	0.3	0.00%
NERC Total		60,480	536,850.6		549,559.1	12.63%	604,669.7	13.90%
b19	Class1a	71	1,897.3		1,906.8		3,116.6	0.07%
BBSRC Total		71	1,897.3		1,906.8		3,116.6	0.07%
e756	Leadership Awards	209	289.6	0.01%	289.8	0.01%	9,078.0	0.21%
e760		76	792.0	0.02%	797.9	0.02%	432.6	0.01%
	Awards							
e723			3,179.9		92,469.5		38,549.2	0.89%
e738	Class1a	81	207.8		207.8		16,844.0	
UKRI Total	eCSE	1,968	4,469.3 0.0		93,764.9 0.0		64,903.8 48.2	1.49% 0.00%
ecseab03 ecseac14		0	0.0		0.0		48.2 65.3	0.00%
ecsead08		66	0.8		1,835.8		85.8	0.00%
ecseae03		0	0.0		0.0		62.5	0.00%
ecseaf01	eCSE	18	142.5		142.5		83.1	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	52.7	0.00%
ecseaf03		12	2.6		2.6	0.00%	50.7	0.00%
ecseaf04		0	0.0		0.0		65.1	0.00%
ecseaf06		0	0.0		0.0		100.8	0.00%
ecseag02		14	1.4		1.4		87.1	0.00%
ecseag03 ecseag06		0 59	0.0 2.6		0.0 2.6		62.9 43.1	0.00% 0.00%
ecseag08		0	0.0		0.0		58.4	0.00%
ecseag09		0	0.0		0.0		62.7	0.00%
ecseah03		0	0.0		0.0		120.5	
ecseah05		0	0.0		0.0		54.4	0.00%

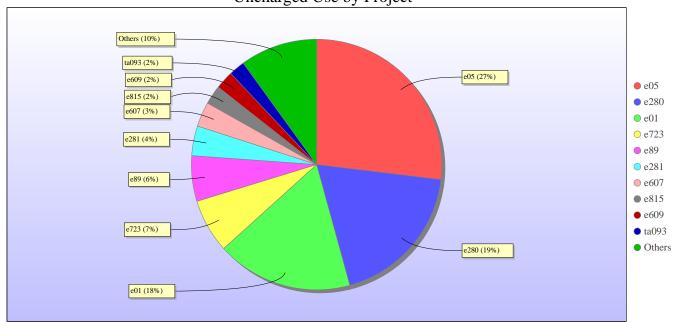
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseah06	eCSE	0	0.0	0.00%	0.0	0.00%	109.6	0.00%
ecseah10	eCSE	0	0.0	0.00%	0.0	0.00%	107.6	0.00%
ecseah11	eCSE	0	0.0	0.00%	0.0		73.2	0.00%
ecseah12	eCSE	19	2.6		2.6		95.9	0.00%
ecseai03	eCSE	0	0.0	0.00%	0.0		76.3	0.00%
ecseai04	eCSE	0	0.0		0.0		104.0	0.00%
ecseai05	eCSE	0	0.0	0.00%	0.0		124.6	0.00%
	eCSE	0			0.0			0.00%
ecseai09	eCSE		0.0	0.00% 0.00%			105.1 95.9	
ecseai10	eCSE	0	0.0		0.0			
ecseai12		0	0.0	0.00%	0.0		58.9	0.00%
ecseaj02	eCSE	0	0.0	0.00%	0.0		59.3	0.00%
ecseaj03	eCSE	0	0.0	0.00%	0.0		3.5	0.00%
eCSE Total		188	152.5	0.00%	1,987.5		2,117.1	0.05%
d35	Research	135	498.2	0.01%	498.2		424.7	0.01%
d011	Research	494	330.1	0.01%	330.1	0.01%	175.6	0.00%
d114	Research	0	0.0	0.00%	0.0		5,226.3	0.12%
d137	Research	12	92.1	0.00%	246.5	0.01%	1,686.1	0.04%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,693.6	0.04%
d183	Research	149	12.2	0.00%	12.2	0.00%	8.5	0.00%
d193	Research	179	0.4	0.00%	0.4		339.7	0.01%
d435	Research	689	2,369.5	0.05%	2,369.6		849.3	0.02%
d436	Research	0	0.0	0.00%	0.0		339.7	0.01%
i246	Research	59	0.0	0.00%	740.2		0.1	0.00%
d434	Industrial	0	0.0	0.00%	0.0		15.7	0.00%
i01	Industrial	0	0.0	0.00%	0.0		714.1	0.02%
i26		47	86.4		86.4			0.02%
	Industrial			0.00%		0.00%	3,000.0	
i219	Industrial	0	0.0	0.00%	0.0		33.9	
i239	Industrial	686	2,154.8	0.05%	2,163.9		1,081.5	
i241	Industrial	0	0.0		0.0		2,348.0	0.05%
i242	Industrial	27	280.1	0.01%	280.1	0.01%	567.1	0.01%
i243	Industrial	0	0.0	0.00%	0.0		241.6	
i244	Industrial	98	119.5	0.00%	119.5		390.4	
i247	Industrial	2	384.0	0.01%	386.4		2,265.4	0.05%
m22oc	Training	942	536.8	0.01%	817.8		392.4	0.01%
m22ol	Training	0	0.0	0.00%	0.0	0.00%	392.4	0.01%
m23oc	Training	0	0.0	0.00%	0.0	0.00%	326.9	0.01%
m23ol	Training	0	0.0	0.00%	0.0	0.00%	217.9	0.01%
m22ext	Training	0	0.0	0.00%	0.0	0.00%	157.0	0.00%
mdisspt	Training	0	0.0	0.00%	0.0		148.7	0.00%
m22exts1	Training	0	0.0	0.00%	0.0		78.5	0.00%
ta067	Training	0	0.0	0.00%	0.0		19.1	0.00%
ta068	Training	0	0.0		0.0		19.1	
ta069	Training	0	0.0		0.0		19.1	0.00%
ta009	Training	14	166.0	0.00%	166.0		609.8	
ta070	Training	0	0.0		0.0		763.8	
ta084	-	0	0.0	0.00%	0.0		38.3	0.02%
	Training							
ta086	Training	0	0.0		0.0		19.1	0.00%
ta087	Training	0	0.0		0.0		19.1	0.00%
ta093	Training	268	12.2		26,457.2		748.8	
ta094	Training	166	625.2		5,797.6		2,551.7	0.06%
ta095	Training	0	0.0		0.0		63.8	
ta096	Training	0	0.0		0.0		63.8	
ta097	Training	0	0.0	0.00%	0.0		63.8	
ta109	Training	237	110.9		110.9		507.2	0.01%
ta110	Training	0	0.0	0.00%	0.0		19.0	0.00%
ta111	Training	8	0.1	0.00%	0.1	0.00%	19.0	0.00%
ta112	Training	0	0.0	0.00%	0.0	0.00%	19.0	0.00%
ta115	Training	363	486.0		330.9		235.4	0.01%
ta116	Training	88	122.2		122.7		922.4	
ta117	Training	0	0.0		0.0		115.8	
ta118	Training	0	0.0		0.0		93.0	
ta119	Training	0	0.0	0.00%	0.0		83.5	
ta119	Training	0	0.0		0.0		152.5	
laiZi	rrairing	Ų	0.0	0.00%	0.0	0.00%	102.5	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
ta122	Training	51	0.1	0.00%	0.1	0.00%	152.5	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%	144.8	0.00%
y01	Service	1	0.0	0.00%	0.0	0.00%	74.8	0.00%
y02	Service	413	162.2	0.00%	822.5	0.02%	4,246.6	0.10%
y07	Service	0	0.0	0.00%	0.0	0.00%	82.9	0.00%
y23	Service	3	0.3	0.00%	0.3	0.00%	84.9	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	9,392	24,915.5	0.57%	26,086.0	0.60%	42,349.7	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	168.4	0.00%
z99	Service	21	0.2	0.00%	0.2	0.00%	0.8	0.00%
DirectorsTime		14,546	33,465.1	0.77%	67,945.9	1.56%	77,607.5	1.78%
Total								
n09	Pump Priming	8	1,617.8	0.04%	1,617.8	0.04%	0.0	0.00%
i26	Industrial	6	37.1	0.00%	37.1	0.00%	0.0	0.00%
Total		14	1,654.9	0.04%	1,654.9	0.04%	0.0	0.00%
Total		252,185	2,657,904.3	61.09%	3,941,785.4	90.60%	3,994,295.5	91.80%

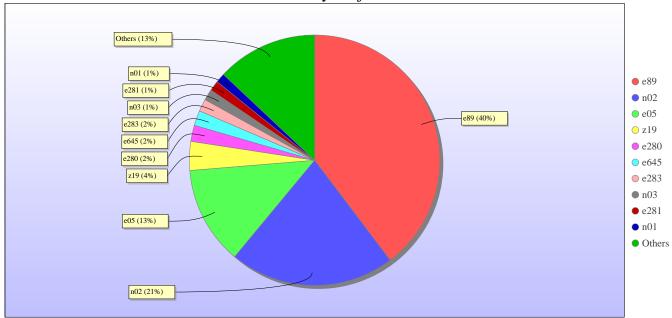




Uncharged Use by Project



Jobs by Project

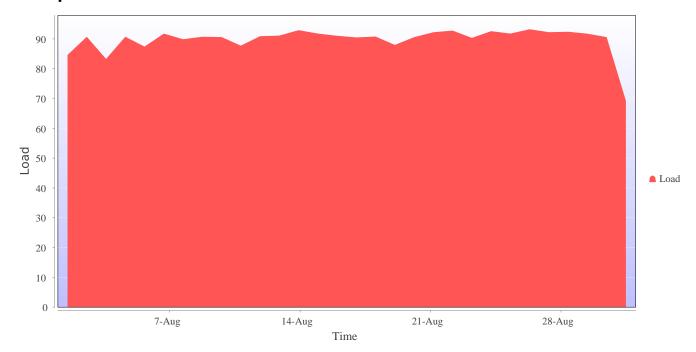


CUs (by Size)

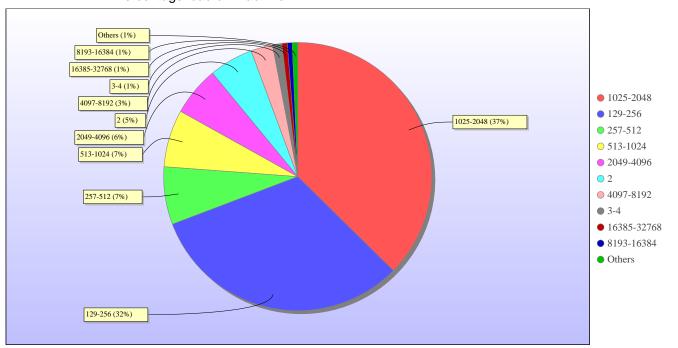
Size	CUs	Number of Jobs					
2	0	13,398					
3-4	0	2,853					
5-8	0	656					
9-16	0	42					
17-32	0	167					
33-64	0	5					
65-128	0	2					
129-256	163,779.533						
257-512	123,818.15						
513-1024	395,659.326						
1025-2048	511,381.306	94,235					

Size	CUs	Number of Jobs
2049-4096	432,553.195	14,993
4097-8192	480,864.49	6,640
8193-16384	149,676.563	1,478
16385-32768	248,695.735	1,612
32769-65536	104,833.962	455
65537-131072	15,765.138	187
131073-262144	27,781.315	152
262145-524288	593.92	5
524289-1048576	964.836	2

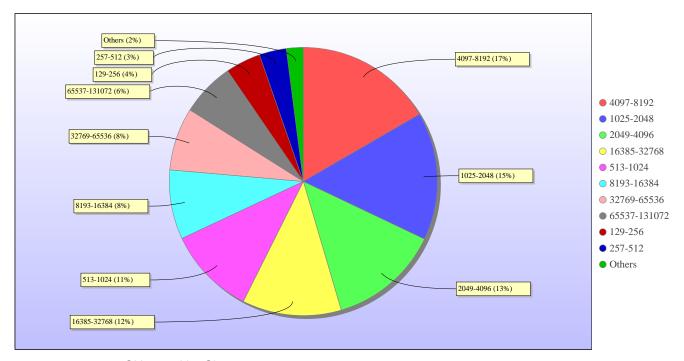
Load plots



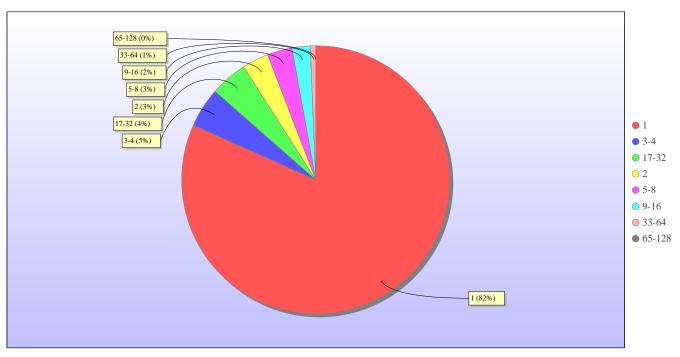
Percentage load on machine



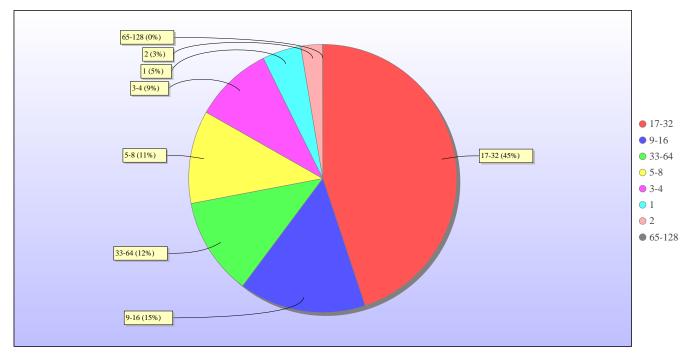
Jobs by Size



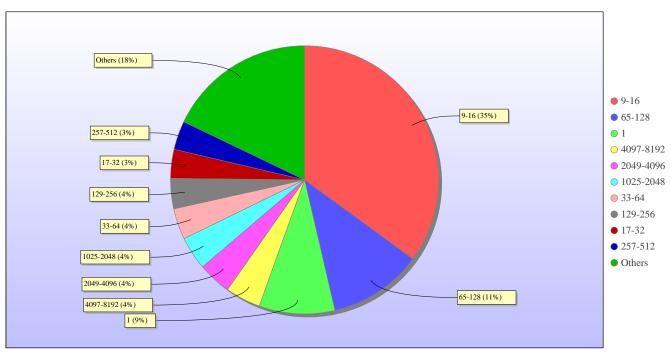
CUs used by Size



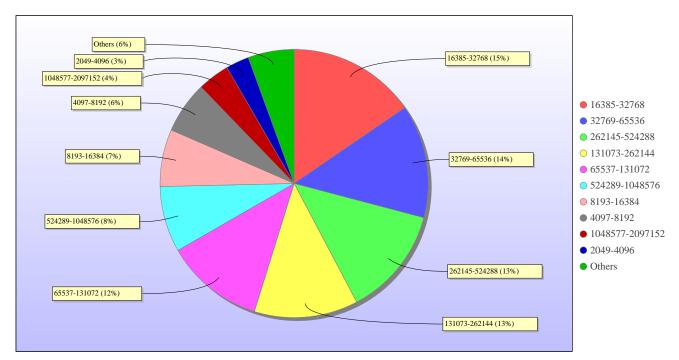
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

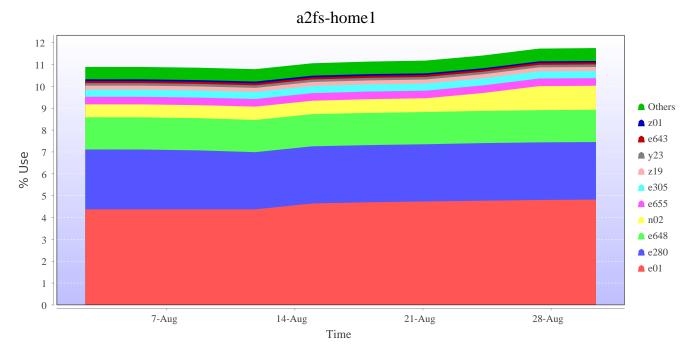


CUs used grouped by core-hours

Disk usage

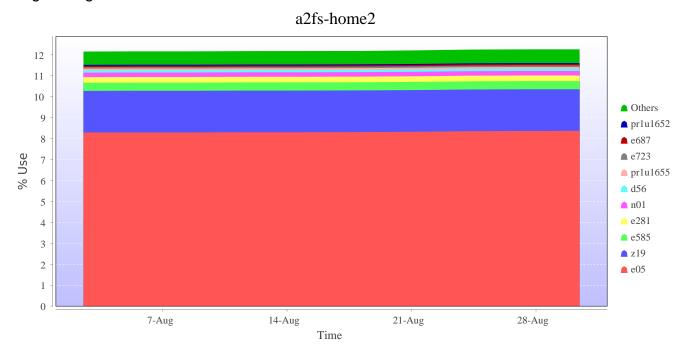
Disk usage for home (a2fs-home1)

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.



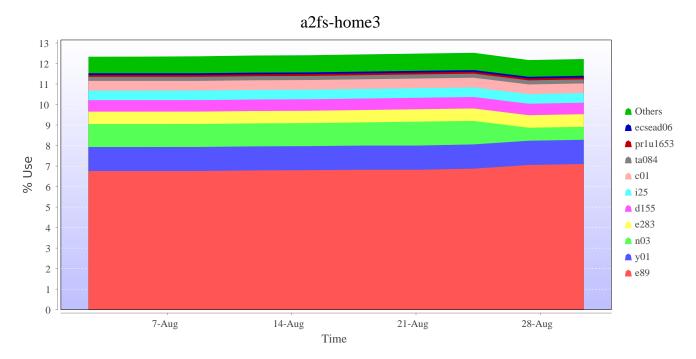
Disk usage for home (a2fs-home2)

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.



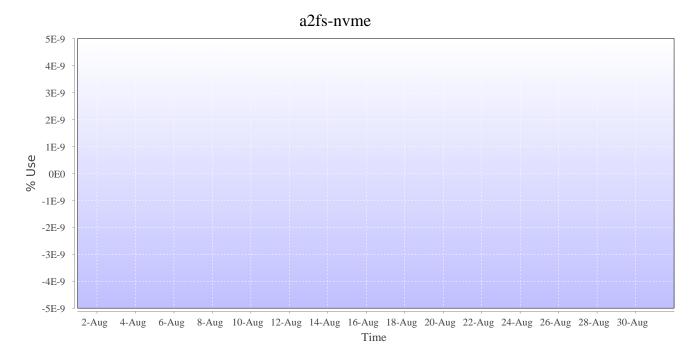
Disk usage for home (a2fs-home3)

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.



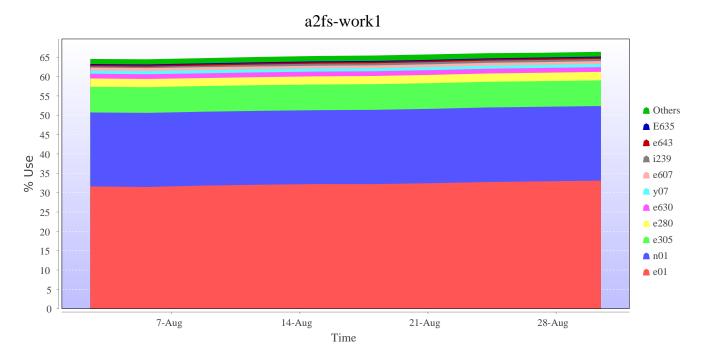
Disk usage for work-nVME (a2fs-nvme)

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.



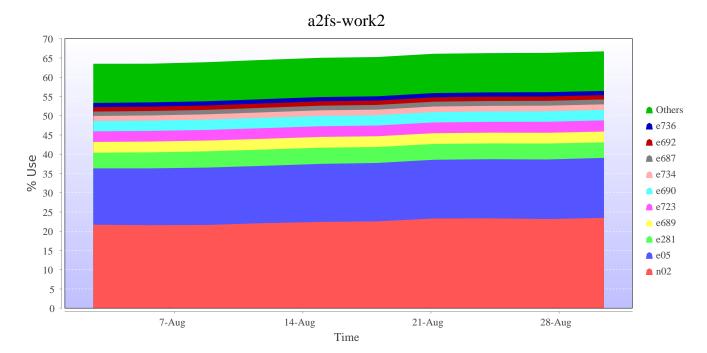
Disk usage for work (a2fs-work1)

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.



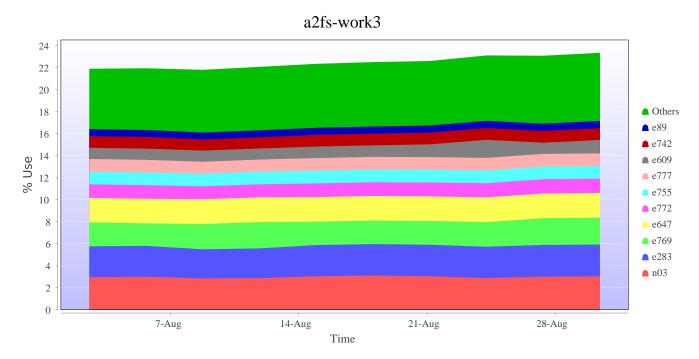
Disk usage for work (a2fs-work2)

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.



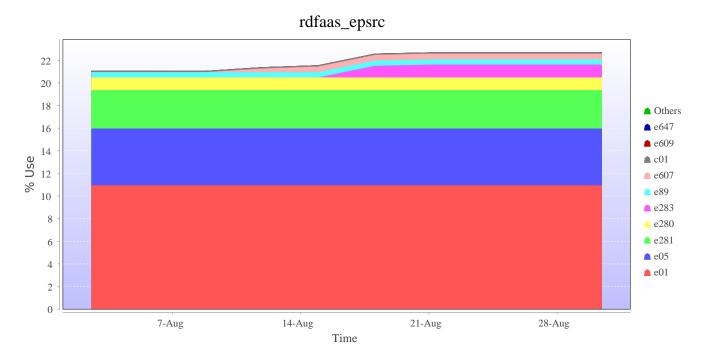
Disk usage for work (a2fs-work3)

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.

