Monthly Reporting

Report from 01 November 2023 to 30 November 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 Class	Number of Jobs	Charged CUs	Charged Utilisation		Utilisation	Allocated CUs	Allocation
e645	Leadership Awards	340	1,252.4		·		·	
e760	Leadership Awards	109	2,105.3			0.05%	895.5	0.02%
e786	Leadership Awards	36	346.3	0.01%	346.3	0.01%	9,393.5	0.22%
e787	Leadership Awards	0	0.0		0.0			
e683	Pioneer Projects	1,504	8,597.0		8,598.9	0.20%	4,890.2	0.12%
e685	Pioneer Projects	76	486.7	0.01%	6,656.5	0.16%		
e686	Pioneer Projects	314	6,544.2		6,613.3		·	
e687	Pioneer Projects	182	2,505.6					
e688	Pioneer Projects	126	14,847.2	0.35%			32,397.6	
e689	Pioneer Projects	5	2,774.8		·		22,494.9	
e690	Pioneer Projects	0	0.0		0.0			
e691	Pioneer Projects	3	7,474.4		7,474.4		24,928.3	
e692	Pioneer Projects	15	19,138.5		·		·	
e731	Pioneer Projects	576	17,066.0					
e744	Pioneer Projects	303	31,818.9				·	
e808	Pioneer Projects	464	33,828.7				15,148.3	
e809	Pioneer Projects	98	58,154.3			1.39%	7,612.6	0.18%
e810	Pioneer Projects	240	46,017.0		47,784.1	1.13%	34,256.7	0.81%
e812	Pioneer Projects	17	637.8				13,405.3	
e813	Pioneer Projects	410	16,796.9		16,798.8	0.40%	22,610.6	0.54%
e814	Pioneer Projects	78	17,652.4	0.42%	17,652.4	0.42%	7,690.7	0.18%

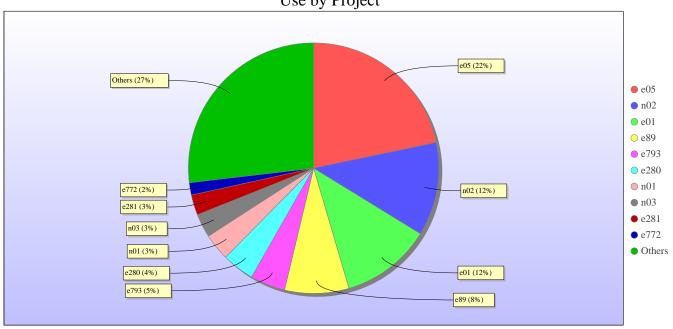
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e815	Pioneer Projects	5,879	34,693.8	0.82%	35,024.5	0.83%	20,303.4	0.48%
e817	Pioneer Projects	53	38,127.7	0.91%	38,220.5	0.91%	74,624.4	1.77%
c01	Class1a	988	6,835.4	0.16%	6,835.4	0.16%	22,009.7	0.52%
e348	Class1a	4,876	15,792.6		15,800.0	0.38%	19,629.3	0.47%
e575	Class1a	0	0.0		0.0		655.7	0.02%
e609	Class1a	1,819	25,511.2	0.61%	27,318.2		13,637.6	
e643	Class1a	255	2,373.0	0.06%	2,373.0	0.06%	8,150.3	0.19%
e647	Class1a	258	5,393.6	0.13%	5,393.6	0.13%	14,309.1	0.34%
e694	Class1a	0	0.0	0.00%	0.0	0.00%	2,741.3	0.07%
e696	Class1a	103	1,853.3	0.04%	1,895.0	0.05%	656.7	0.02%
e697	Class1a	87	28,917.4	0.69%	31,046.3		10,612.4	0.25%
e700	Class1a	0	0.0	0.00%	0.0	0.00%	866.5	0.02%
e701	Class1a	69	9,391.9	0.22%	11,410.0	0.27%	2,689.6	0.06%
e705	Class1a	44	5,019.8		5,019.8		3,635.8	
e707	Class1a	45	12,022.0		12,022.0	0.29%	9,247.7	0.22%
e710	Class1a	213	1,948.6		1,992.9	0.05%	4,121.8	0.10%
e712	Class1a	253	54,382.1	1.29%	55,742.1	1.32%	16,487.3	0.39%
e720	Class1a	484	35,637.1	0.85%	35,914.2	0.85%	21,837.5	
e721	Class1a	0	0.0	0.00%	0.0	0.00%	2,720.4	0.06%
e728	Class1a	264	5,839.0	0.14%	5,910.5		2,328.2	0.06%
e751	Class1a	271	7,294.2	0.17%	7,513.2	0.18%	4,886.9	0.12%
e752	Class1a	36	256.8		257.7	0.01%	3,462.3	0.08%
e758	Class1a	28	8,142.1	0.19%	9,256.2	0.22%	3,236.8	0.08%
e763	Class1a	0	0.0		0.0	0.00%	978.0	0.02%
e767	Class1a	603	25,118.2		25,233.8	0.60%	5,737.7	0.14%
e769	Class1a	1,080	37,254.6		37,254.6	0.88%	28,031.9	
e770	Class1a Class1a	237	7,824.6		7,897.9		6,381.6	
e793	Class1a Class1a	75	163,966.4	3.89%	176,726.2	4.20%	30,607.0	0.73%
e820	Class1a Class1a	49	136.8	0.00%	176,726.2	0.00%	5,018.0	0.73%
e821	Class1a Class1a	49	0.0	0.00%	0.0	0.00%	245.8	0.12%
e838	Class1a Class1a	81	594.9		599.5	0.00%	3,297.5	
e6337	Class1a Class1a	0	0.0	0.00%	0.0	0.00%	1,349.0	0.03%
ec110	Class1a Class1a	0	0.0		0.0	0.00%	1,147.5	
e01	Consortia	2,900	409,631.1	9.73%	457,408.6	10.86%	401,890.6	9.54%
e05	Consortia	25,592	807,988.6		850,718.6		906,615.8	
e89	Consortia	24,276	309,172.7	7.34%	324,832.5	7.71%	362,200.6	8.60%
	Consortia		141,662.4					
e280		5,939		3.36%	163,410.0 102,447.2	2.43%	245,031.3 107,116.3	5.82%
e281 e283	Consortia	4,032	96,790.5				64,884.3	2.54% 1.54%
	Consortia	3,761	50,221.2 61,735.7		50,867.6		· · · · · · · · · · · · · · · · · · ·	
e772 e773	Consortia Consortia	2,630 510	· · · · · · · · · · · · · · · · · · ·		62,364.6		73,509.4 29,025.4	
e718		310	24,641.6 0.0		25,706.8 0.0		29,025.4	0.00%
	Pump Priming	202	43.8					
e788	. 9	382			43.8		285.1	0.01%
e791	Pump Priming	0	0.0		0.0		526.2	
e792	Pump Priming	75	710.7	0.02%	710.7	0.02%	526.2 655.6	0.01%
e794	Pump Priming	0	0.0		0.0			
e805	Pump Priming	0	0.0		0.0		626.3	
e811	Pump Priming	0	0.0	0.00%	0.0	0.00%	648.5	
e818	Pump Priming	0	0.0		0.0	0.00%	652.0	
e819	Pump Priming	71	752.5		752.5	0.02%	652.0	
e823	Pump Priming	0	0.0		0.0		608.0	
e824	Pump Priming	100	1,010.5		1,010.5	0.02%	649.0	0.02%
e825	Pump Priming	28	366.8		366.8		655.7	0.02%
e826	Pump Priming	37	1.3		1.8		655.7	0.02%
e837	Pump Priming	117	157.8		158.0		563.4	0.01%
i28	Industrial	0	0.0		0.0		54.8	
ta124	Training	0	0.0		0.0		18.4	0.00%
ta125	Training	7	0.2		0.2		18.4	0.00%
ta126	Training	0	0.0		0.0	0.00%	30.7	0.00%
ta127	Training	872	1,851.6		1,898.2		639.3	
e507	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,216.4	0.12%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
	Access to HPC	15	0.1	0.00%	0.1	0.00%	3,657.9	
	Access to HPC	92	195.6		195.6		3,016.6	
	Access to HPC	328	8,795.2		8,821.0		3,857.4	0.09%
	Access to HPC Access to HPC	213 35	5,975.1 2,500.6	0.14% 0.06%	5,975.1 2,790.1	0.14% 0.07%	9,845.6 1,639.8	0.23% 0.04%
	Access to HPC	2,278	40,895.3		41,112.8		13,189.8	0.04%
	Access to HPC	2,276	0.0		0.0		0.3	0.00%
	Access to HPC	557	16,722.5		16,722.5	0.40%	25,180.3	0.60%
	Access to HPC	10	6,368.1	0.15%	6,368.1	0.15%	7,198.4	0.17%
	Access to HPC	692	14,150.0		14,154.1	0.34%	10,171.6	
e775	Access to HPC	115	12,063.7	0.29%	12,192.7	0.29%	16,300.7	0.39%
e776	Access to HPC	193	8,863.3	0.21%	9,773.9	0.23%	6,018.2	0.14%
e777	Access to HPC	16	2,063.2		2,063.2		7,335.3	0.17%
	Access to HPC	49	642.4	0.02%	642.4	0.02%	815.0	0.02%
	Access to HPC	52	12,575.4		12,575.4		5,748.3	0.14%
	Access to HPC	34	169.5		169.5		3,260.1	0.08%
	Access to HPC	3	59.1	0.00%	59.1	0.00%	769.8	
	Access to HPC	12	379.3		379.3		10,810.7	0.26%
	Access to HPC	43	14,136.6		14,139.3		11,032.3	0.26%
	Access to HPC Access to HPC	236 114	3,956.4 6,566.9	0.09%	4,023.1	0.10% 0.16%	8,565.7 6,520.3	0.20% 0.15%
	Access to HPC	31	88.7	0.16%	6,566.9 88.7	0.16%	6,520.3	0.15%
	Access to HPC	2	1.9		1.9		4,890.2	0.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	815.0	0.02%
	Access to HPC	2	384.1	0.01%	384.1	0.01%	4,890.2	0.12%
	Access to HPC	146	20,829.4	0.49%	20,843.5	0.50%	13,578.4	0.32%
	Access to HPC	0	0.0		0.0	0.00%	3,996.3	0.09%
	Access to HPC	0	0.0		0.0	0.00%	2,190.8	
e804	Access to HPC	120	3,735.0	0.09%	3,740.1	0.09%	10,758.4	0.26%
e806	Access to HPC	0	0.0	0.00%	0.0	0.00%	736.1	0.02%
e807	Access to HPC	0	0.0	0.00%	0.0	0.00%	1,590.2	0.04%
	Access to HPC	439	41,269.5		41,793.1	0.99%	14,411.4	0.34%
EPSRC Total		100,204	2,952,497.3		3,123,638.5	74.19%	3,068,714.1	72.88%
n01	Consortia	6,498	132,356.8		135,250.9		103,934.4	2.47%
n02	Consortia	97,707	462,562.7	10.99%	471,901.3		816,147.5	19.38%
n03	Consortia	3,701	116,928.8		119,975.7	2.85%	162,295.1	3.85%
NERC Total b19	Class1a	107,906 370	711,848.3 6,835.8		727,127.9 6,835.8		1,082,377.0 3,016.1	25.71% 0.07%
BBSRC Total	Classia	370	6,835.8		6,835.8	0.16%	3,016.1	0.07%
e756	Leadership	50	2,521.6		2,521.6		8,785.1	0.21%
0750	Awards	30	2,021.0	0.0070	2,021.0	0.0070	0,700.1	0.2170
e723		1,395	22,034.9	0.52%	22,035.6	0.52%	37,305.7	0.89%
e738		0	0.0		0.0		16,300.7	
UKRI Total		1,445	24,556.5		24,557.2		62,391.5	
ecseab03		0	0.0		0.0		46.6	
ecseac14		0	0.0		0.0		63.2	0.00%
ecseaf01		70	80.0	0.00%	80.0	0.00%	80.4	0.00%
ecseaf02		0	0.0		0.0		51.0	
ecseaf03		93	12.5		12.5		41.3	
ecseaf04		0	0.0		0.0		63.0	0.00%
ecseaf06		0	0.0		0.0	0.00%	57.0	0.00%
ecseag02		1 0	0.0		0.0		69.5	
ecseag03 ecseag06		93	0.0 2.3		0.0 2.3		60.9 41.7	0.00% 0.00%
ecseag08		93	0.0		0.0		56.5	
ecseag09		1	6.0		6.0		60.7	0.00%
ecseah01		0	0.0		0.0		68.9	
ecseah03		0	0.0		0.0		116.6	
ecseah05		0	0.0		0.0		52.6	
ecseah06	eCSE	0	0.0		0.0		106.1	0.00%
ecseah10	eCSE	0	0.0	0.00%	0.0	0.00%	104.1	0.00%
ecseah11		0	0.0		0.0		70.8	
ecseah12	eCSE	0	0.0	0.00%	0.0	0.00%	92.8	0.00%

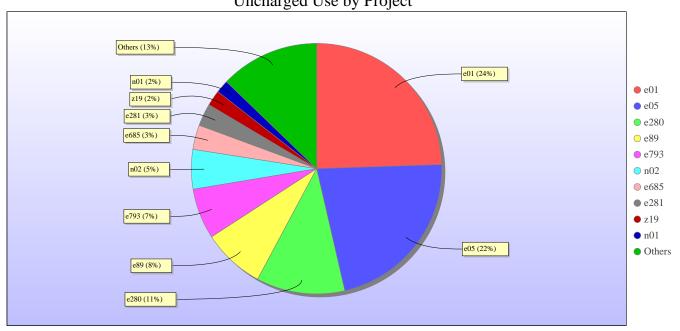
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseai03	eCSE	0	0.0	0.00%	0.0	0.00%	73.8	0.00%
ecseai04	eCSE	0	0.0	0.00%	0.0		100.6	
ecseai05	eCSE	0	0.0	0.00%	0.0	0.00%	120.6	
ecseai09	eCSE	0	0.0	0.00%	0.0	0.00%	101.7	0.00%
ecseai10	eCSE	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	26	0.2	0.00%	0.2	0.00%	57.4	0.00%
ecseaj03	eCSE	0	0.0	0.00%	0.0	0.00%	105.3	0.00%
eCSE Total		284	101.1	0.00%	101.1	0.00%	2,013.1	0.05%
d35	Research	93	1.3	0.00%	1.3	0.00%	411.0	0.01%
d011	Research	27	3.1	0.00%	3.1	0.00%	170.0	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	5,057.7	0.12%
d137	Research	0	0.0	0.00%	0.0	0.00%	1,280.8	
d142	Research	0	0.0	0.00%	0.0	0.00%	4,054.1	0.10%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,639.0	0.04%
d183	Research	4	0.8	0.00%	0.8		172.1	0.00%
d193	Research	158	35.0	0.00%	35.0	0.00%	219.0	0.01%
d435	Research	114	345.5	0.01%	347.2	0.01%	1,270.9	0.03%
d436	Research	0	0.0	0.00%	0.0	0.00%	328.8	
d437	Research	4	0.0	0.00%	0.0	0.00%	409.8	0.01%
i246	Research	75	0.0	0.00%	717.3	0.02%	0.1	0.00%
r07	RDF: Pilot	0	0.0	0.00%	0.0	0.00%	49.2	0.00%
d195	Industrial	1	0.0	0.00%	0.0	0.00%	18.8	0.00%
d433	Industrial	7	1.6	0.00%	1.6	0.00%	82.0	0.00%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	691.1	0.02%
i18	Industrial	123	340.9	0.01%	340.9	0.01%	1,469.9	0.03%
i21	Industrial	6	0.1	0.00%	0.1	0.00%	8.2	0.00%
i26	Industrial	32	122.5	0.00%	122.5	0.00%	163.9	0.00%
i219	Industrial	67	48.5	0.00%	48.5	0.00%	32.8	0.00%
i239	Industrial	647	1,227.0	0.03%	1,230.2	0.03%	1,231.1	0.03%
i241	Industrial	103	19.0	0.00%	19.0	0.00%	2,272.2	0.05%
i242	Industrial	37	524.7	0.01%	524.7	0.01%	548.8	0.01%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	376.6	0.01%
i244	Industrial	298	316.0	0.01%	316.0	0.01%	377.8	0.01%
i247	Industrial	0	0.0	0.00%	0.0	0.00%	966.6	0.02%
i248	Industrial	0	0.0	0.00%	0.0	0.00%	1,470.1	0.03%
m23oc	Training	0	0.0	0.00%	0.0	0.00%	544.8	0.01%
m23ol	Training	8	1.7	0.00%	1.7	0.00%	363.2	0.01%
m23ext	Training	0	0.0	0.00%	0.0	0.00%	102.4	0.00%
mdisspt	Training	28	1.6	0.00%	1.6	0.00%	178.6	0.00%
m23exts1	Training	0	0.0	0.00%	0.0	0.00%	107.9	
ta084	Training	0	0.0	0.00%	0.0	0.00%	739.2	
ta085	Training	0	0.0	0.00%	0.0	0.00%	37.0	
ta086	Training	0	0.0	0.00%	0.0	0.00%	18.5	
ta087	Training	0	0.0		0.0		18.5	
ta093	Training	0	0.0	0.00%	0.0		724.6	
ta094	Training	21	1.7	0.00%	1.7	0.00%	2,469.3	
ta095	Training	0	0.0		0.0		61.7	0.00%
ta096	Training	0	0.0	0.00%	0.0		61.7	0.00%
ta097	Training	0	0.0		0.0		61.7	0.00%
ta109	Training	56	252.3	0.01%	262.6		490.8	
ta110	Training	0	0.0		0.0		18.4	
ta111	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta112	Training	0	0.0		0.0		18.4	
ta116	Training	184	876.6		877.4		892.6	
ta128	Training	228	141.9		94.6		102.2	0.00%
ta129	Training	164	2.1	0.00%	2.1	0.00%	130.4	0.00%
ta130	Training	1	0.0		0.0		54.2	
ta131	Training	1	0.4	0.00%	0.4	0.00%	4.4	0.00%
ta132	Training	0	0.0		0.0		0.6	
d191	Service	0	0.0		0.0		4.1	0.00%
d194	Service	0	0.0	0.00%	0.0		140.2	
y01	Service	0	0.0	0.00%	0.0	0.00%	72.4	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
y02	Service	241	6,057.6	0.14%	8,590.5	0.20%	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	1	0.0	0.00%	0.0	0.00%	8.2	0.00%
z19	Service	4,938	17,284.0	0.41%	21,211.9	0.50%	40,983.6	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	164.9	0.00%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.8	0.00%
DirectorsTime		7,667	27,605.8	0.66%	34,752.6	0.83%	77,646.1	1.84%
Total								
Total		217,876	3,723,444.8	88.43%	3,917,013.1	93.03%	4,296,157.8	102.03%

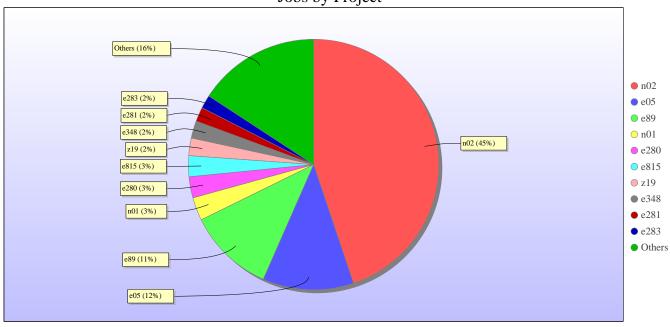
Use by Project



Uncharged Use by Project



Jobs by Project



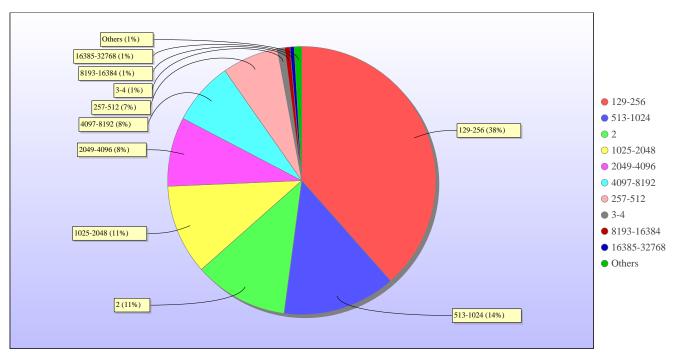
CUs (by Size)

Size	CUs	Number of Jobs
1	0	10
2	0	24,729
3-4	0	1,957
5-8	0	1,021
9-16	0	90
17-32	0	353
65-128	0	2
129-256	181,880.954	83,790
257-512	110,391.564	
513-1024	365,734.102	29,747
1025-2048	533,260.834	23,660
2049-4096	668,199.747	18,202
4097-8192	731,017.35	16,576
8193-16384	266,761.312	1,364
16385-32768	393,297.14	1,100
32769-65536	386,270.152	356
65537-131072	62,485.461	
131073-262144	16,531.626	35
262145-524288	2,827.973	5
524289-1048576	684.444	1

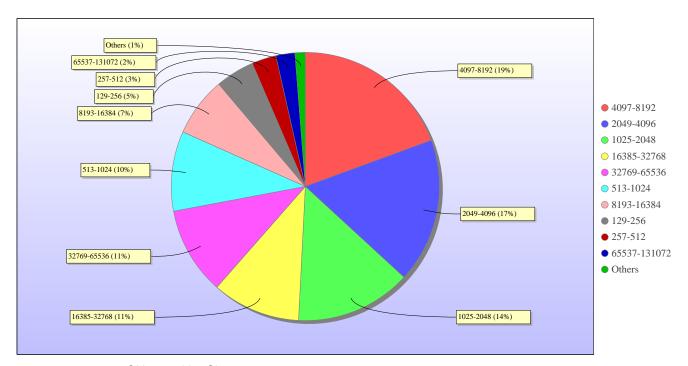
Load plots



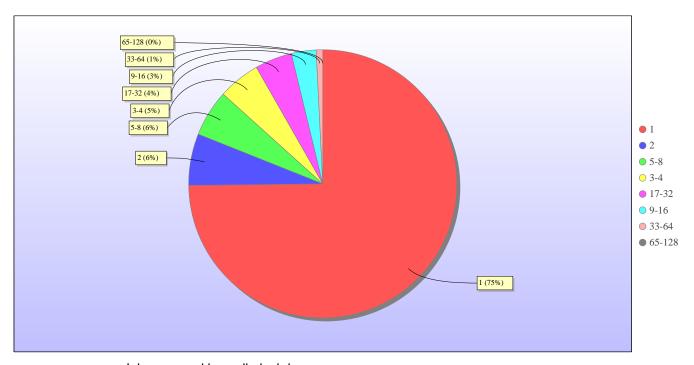
Percentage load on machine



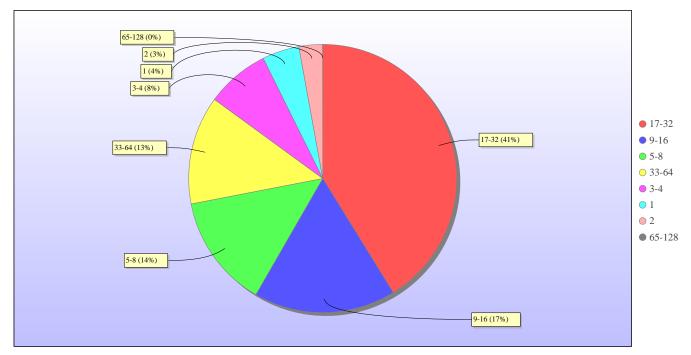
Jobs by Size



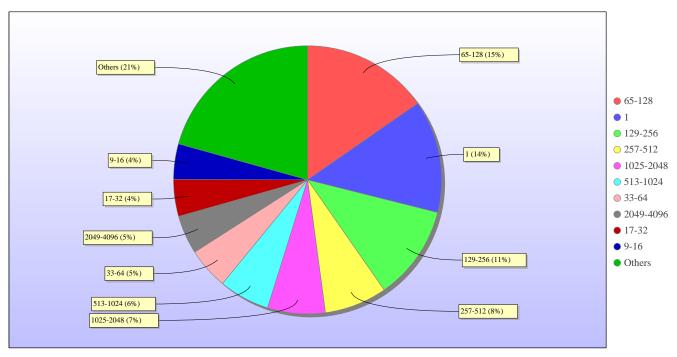
CUs used by Size



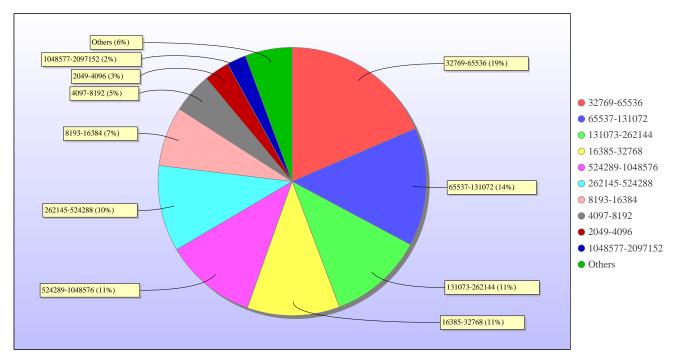
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

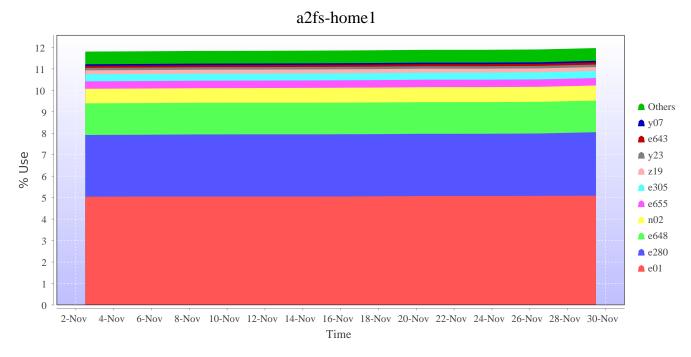


CUs used grouped by core-hours

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.



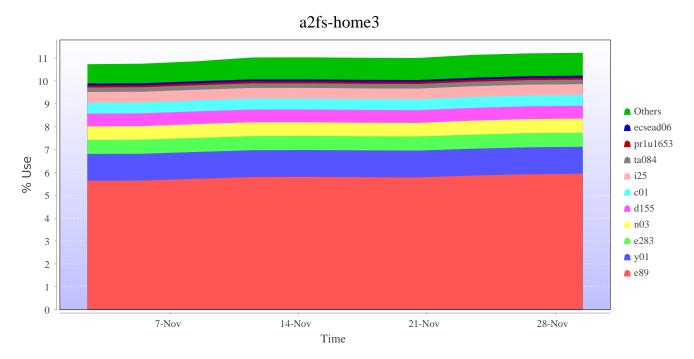
Disk usage for home (a2fs-home2)

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.



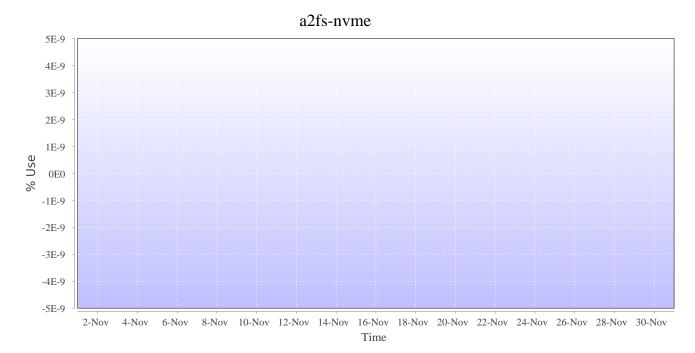
Disk usage for home (a2fs-home3)

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.



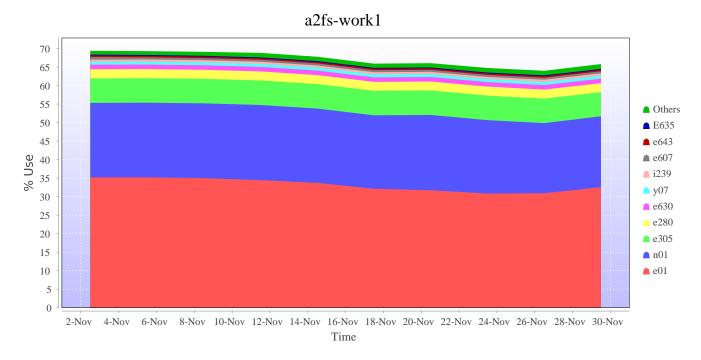
Disk usage for work-nVME (a2fs-nvme)

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.



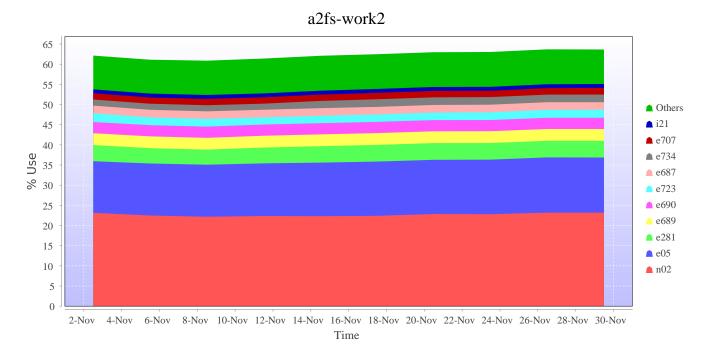
Disk usage for work (a2fs-work1)

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.



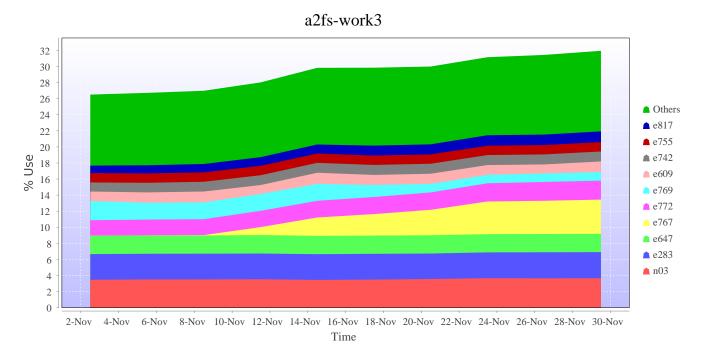
Disk usage for work (a2fs-work2)

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.



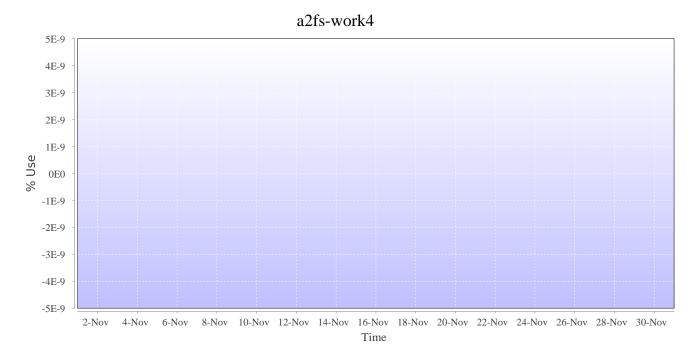
Disk usage for work (a2fs-work3)

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.



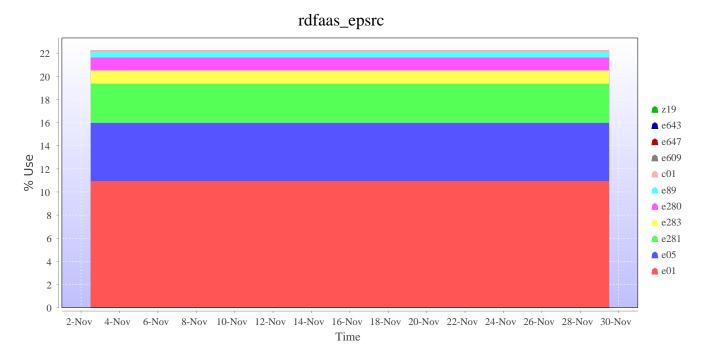
Disk usage for work (a2fs-work4)

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.

