Monthly Reporting

Report from 01 January 2024 to 31 January 2024

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 Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e645	Leadership Awards	11	240.5		240.5			
e760	Leadership Awards	91	2,052.5		2,055.9			
e786	Leadership Awards	24	44.2		44.2		•	
e787	Leadership Awards	45	26,884.1		30,557.5			
e683	Pioneer Projects	224	2,502.4		2,502.8			
e685	Pioneer Projects	44	728.1					
e686	Pioneer Projects	342	5,891.5		6,622.9			
e687	Pioneer Projects	0	0.0		0.0			
e688	Pioneer Projects	259	67,702.2		67,939.8			
e689	Pioneer Projects	28	53,640.3		53,640.3			
e690	Pioneer Projects	0	0.0		0.0			
e691	Pioneer Projects	0	0.0		0.0			
e692	Pioneer Projects	7	10,898.7		10,898.7	0.25%		
e731	Pioneer Projects	4,482	68,216.3		68,451.3			
e744	Pioneer Projects	292	13,414.2		15,794.4			
e808	Pioneer Projects	170	13,768.3		13,870.1	0.32%	·	
e809	Pioneer Projects	0	0.0					
e810	Pioneer Projects	40	5,908.9		8,456.4			
e812	Pioneer Projects	214	6,076.4		6,076.4			
e813	Pioneer Projects	151	15,705.0					
e814	Pioneer Projects	19	16,459.0	0.38%	18,188.5	0.42%	7,947.0	0.18%

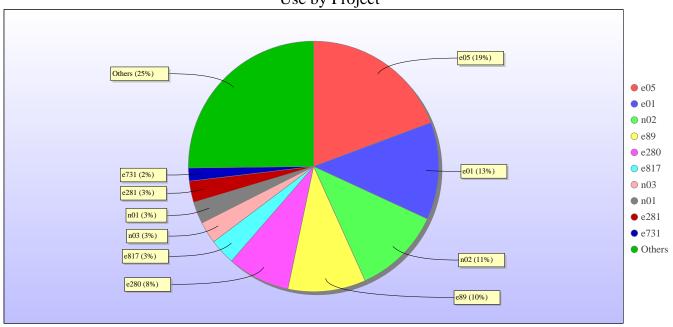
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e815	Pioneer Projects	173	21,570.6	0.50%	26,603.1	0.61%	20,980.1	0.48%
e817	Pioneer Projects	130	129,111.9	2.97%	135,491.5	3.11%	77,111.9	1.77%
c01	Class1a	1,309	14,774.1	0.34%	14,870.0	0.34%	22,743.3	0.52%
e348	Class1a	8,508	7,155.3	0.16%	7,155.3	0.16%	20,283.6	0.47%
e575	Class1a	91	396.4	0.01%	396.4		677.6	
e609	Class1a	680	1,747.1	0.04%	1,754.5		14,092.1	0.32%
e643	Class1a	125	1,629.9		1,629.9		8,422.0	0.19%
e647	Class1a	75	34,857.5		52,602.2		14,786.1	0.34%
e694	Class1a	0	0.0	0.00%	0.0		2,832.7	0.07%
e696	Class1a	61	2,765.2		2,765.2		1,259.7	0.03%
e697	Class1a	62	35,421.8		36,925.1	0.85%	10,966.1	0.25%
e700	Class1a	0	0.0		0.0		895.4	0.02%
e701	Class1a	12	10,159.0		10,159.0		2,779.3	0.06%
e705	Class1a	42	6,098.4	0.14%	6,098.4		3,757.0	0.09%
e707	Class1a	30	724.6		724.6		11,240.9	
e710	Class1a	213	136.1	0.00%	136.1	0.00%	4,259.2	0.10%
e712	Class1a	23	7,623.1	0.18%	7,623.1	0.18%	17,036.9	0.39%
e720	Class1a	231	7,619.4	0.18%	7,627.8		36,799.6	
e721	Class1a	0	0.0	0.00%	0.0		2,811.1	0.06%
e728	Class1a	226	2,847.0	0.07%	2,914.4	0.07%	3,121.5	
e751	Class1a	0	0.0		0.0		5,049.8	
e752	Class1a	86	654.2	0.02%	654.2		3,577.7	0.08%
e758	Class1a	0	0.0	0.00%	0.0		3,344.7	0.08%
e763	Class1a	0	0.0	0.00%	0.0		1,010.6	
e764	Class1a	0	0.0	0.00%	0.0		7,486.4	0.17%
e767	Class1a	167	2,798.2		2,798.2		5,929.0	0.14%
e769	Class1a	69	1,680.2		1,680.2		34,073.7	0.78%
e770	Class1a	76	50.4	0.00%	50.4		6,594.3	
e793	Class1a	0	0.0	0.00%	0.0		42,592.2	0.98%
e820	Class1a	58	549.4	0.01%	573.5		15,733.9	0.36%
e821	Class1a	0	0.0		0.0		3,558.2	0.08%
e838	Class1a	62	12,849.9		12,849.9		6,814.7	0.16%
ec110	Class1a	0	0.0		0.0		1,185.8	
e01	Consortia	2,331	449,536.0		509,996.8		349,289.9	8.03%
e05	Consortia Consortia	22,048	747,753.5		783,338.3		787,955.1	18.11%
e89		23,705	390,992.4	8.99%	407,523.5		378,559.2	8.70%
e280	Consortia	9,811	320,402.4	7.36%	327,770.8		212,960.8	
e281 e283	Consortia	1,040	106,378.6 11,795.4		111,764.8		112,443.3	2.58% 1.42%
e263 e772	Consortia Consortia	1,512 580	41,937.6		11,946.6 42,076.0		61,673.5	
e773	Consortia	456	25,588.9		27,005.0		63,888.3 31,533.2	
e788		0	25,568.9		0.0		294.6	
e805	Pump Priming	1	436.6		436.6		626.7	0.01%
e811	Pump Priming	0	0.0		0.0		540.4	
e818	<u> </u>	69	2,630.8		2,633.1	0.06%	3,721.5	
e819	Pump Priming	0	2,030.8		0.0		673.8	
e823	Pump Priming	0	0.0		0.0		628.2	0.01%
e824	Pump Priming	79	439.2		439.2		670.7	0.02%
e825	Pump Priming	83	543.9		543.9		677.6	
e826	Pump Priming	0	0.0		0.0		677.6	
e837	Pump Priming	24	69.6		69.6		582.2	
e839		12	306.4	0.01%	306.4		674.8	
e853	, ,	179	41.8		41.8		101.6	
	Access to HPC	142	16,114.6		16,114.6		5,390.3	
	Access to HPC	47	12,815.0		12,815.0		3,779.8	
	Access to HPC	25	18.1	0.00%	18.1		3,117.2	
	Access to HPC	281	5,645.4		5,645.4		4,031.6	
	Access to HPC	267	63,454.7		66,224.6		30,194.8	
	Access to HPC	127	3,916.0		3,916.0		1,782.1	0.04%
	Access to HPC	816	4,160.5		4,168.9		13,629.5	0.31%
	Access to HPC	381	21,591.0	0.50%	21,591.0	0.50%	22,354.9	

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
e755	Access to HPC	1	2.2	0.00%	2.2	0.00%	7,438.3	0.17%
e774	Access to HPC	1,052	23,836.2	0.55%	23,836.2	0.55%	10,510.7	
e775	Access to HPC	116	6,735.5		6,735.5		16,844.0	0.39%
	Access to HPC	79	11,398.2		11,398.2		5,990.9	
	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,164.2	0.10%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	1,788.9	0.04%
	Access to HPC	20	2,251.5		2,251.5		5,939.9	0.14%
	Access to HPC	301	3,277.0		3,277.0	0.08%	3,368.8	
	Access to HPC	772	5,674.9		5,674.9		795.5	
	Access to HPC	21	32,559.3	0.75%	55,539.9		11,171.1	0.26%
	Access to HPC Access to HPC	37 142	4,323.7 4,954.3	0.10% 0.11%	4,323.7 4,965.5	0.10% 0.11%	11,530.6 9,094.1	0.27% 0.21%
	Access to HPC	11	0.3	0.00%	9,601.7	0.11%	6,891.1	0.21%
	Access to HPC	378	4,163.8		4,163.8		5,121.7	0.10%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,111.1	0.12%
	Access to HPC	1	48.0	0.00%	48.0	0.00%	5,111.1	0.12%
	Access to HPC	112	16,122.3	0.37%	16,122.3		14,191.7	0.33%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,104.9	
	Access to HPC	5	7,616.3	0.18%	7,616.3	0.18%	6,280.5	
e804	Access to HPC	309	32,993.5	0.76%	33,305.9	0.77%	17,661.6	0.41%
e806	Access to HPC	0	0.0	0.00%	0.0	0.00%	760.6	0.02%
e807	Access to HPC	0	0.0	0.00%	0.0	0.00%	1,643.2	0.04%
e822	Access to HPC	77	280.8	0.01%	280.8	0.01%	6,164.0	0.14%
	Access to HPC	0	0.0		0.0	0.00%	6,107.3	0.14%
	Access to HPC	21	771.5	0.02%	771.5	0.02%	704.6	
	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,961.6	
	Access to HPC	145	27,148.1	0.62%	27,269.4	0.63%	92,117.2	2.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	5,325.2	0.12%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,025.7	0.07%
	Access to HPC	55	805.6		805.6	0.02%	13,493.2	0.31%
	Access to HPC Access to HPC	16 21	830.3 606.8	0.02% 0.01%	830.3 606.8	0.02% 0.01%	28,268.6 1,790.6	
	Access to HPC	249	2,753.6		2,753.6	0.06%	14,065.6	
	Access to HPC	758	6,110.2	0.14%	6,110.2		23,338.6	
	Access to HPC	1	0.0	0.00%	0.0	0.00%	2,044.4	0.05%
	Access to HPC	161	21,060.7	0.48%	21,060.7	0.48%	5,451.8	
	Access to HPC	41	241.5		241.5	0.01%	74,597.7	1.71%
	Access to HPC	386	2,793.0	0.06%	2,793.0	0.06%	17,377.6	
e851	Access to HPC	51	3,187.1	0.07%	3,187.1	0.07%	59,635.9	1.37%
e852	Access to HPC	0	0.0	0.00%	0.0	0.00%	455.9	0.01%
EPSRC Total		88,307	3,062,466.8	70.39%	3,273,370.2	75.23%	3,369,629.6	77.45%
n01	Consortia	6,262	112,323.7	2.58%	114,211.7	2.63%	107,398.9	
n02	Consortia	108,321	454,538.7	10.45%	461,466.3		843,352.5	
n03	Consortia	2,660	113,710.7		114,412.3		167,704.9	
NERC Total		117,243	680,573.0		690,090.3		1,118,456.3	
b19	Class1a	0	0.0		0.0		3,116.6	
BBSRC Total e756	Looderahin	0	0.0 89.0	0.00% 0.00%	0.0		3,116.6 5,083.1	0.07% 0.12%
e/56	Leadership Awards	111	89.0	0.00%	89.0	0.00%	5,083.1	0.12%
e723		764	60,639.5	1.39%	60,797.2	1.40%	59,629.0	1.37%
e723		0	0.0	0.00%	0.0		16,844.0	0.39%
UKRI Total	0.00010	875	60,728.4	1.40%	60,886.1	1.40%	81,556.2	1.87%
ecseab03	eCSE	0	0.0		0.0		48.2	
ecseae08		0	0.0	0.00%	0.0	0.00%	63.3	0.00%
ecseaf03	eCSE	0	0.0	0.00%	0.0	0.00%	32.5	0.00%
ecseaf04	eCSE	0	0.0	0.00%	0.0	0.00%	65.1	0.00%
ecseaf06		0	0.0	0.00%	0.0	0.00%	58.9	
ecseag02	eCSE	24	3.0	0.00%	3.0	0.00%	61.1	0.00%
ecseag06		77	2.0		2.5		43.1	0.00%
ecseag09		0	0.0	0.00%	0.0		62.7	0.00%
ecseah01	eCSE	0	0.0	0.00%	0.0		101.8	
ecseah05	eCSE	450	64.6		78.2		54.4	
ecseah10	eCSE	0	0.0	0.00%	0.0	0.00%	107.6	0.00%

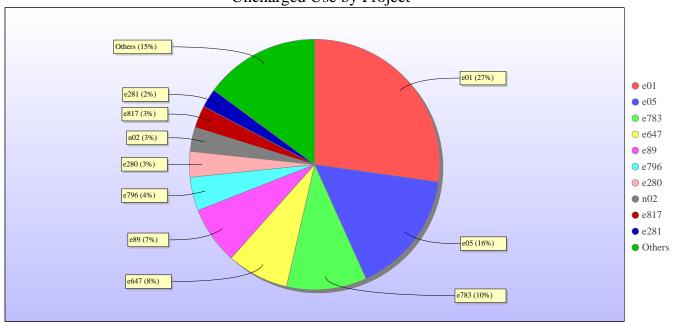
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseah11	eCSE	0	0.0	0.00%	0.0	0.00%	73.2	0.00%
ecseah12	eCSE	0	0.0	0.00%	0.0	0.00%	95.9	0.00%
ecseai03	eCSE	0	0.0	0.00%	0.0	0.00%	76.3	0.00%
ecseai04	eCSE	1	0.0	0.00%	0.0	0.00%	104.0	0.00%
ecseai05	eCSE	0	0.0	0.00%	0.0	0.00%	124.6	0.00%
ecseai09	eCSE	0	0.0	0.00%	0.0	0.00%	105.1	0.00%
ecseai10	eCSE	0	0.0	0.00%	0.0	0.00%	95.9	0.00%
ecseai12	eCSE	0	0.0	0.00%	0.0	0.00%	58.9	0.00%
ecseaj02	eCSE	0	0.0	0.00%	0.0	0.00%	59.3	0.00%
ecseaj03	eCSE	0	0.0	0.00%	0.0	0.00%	108.8	0.00%
eCSE Total		552	69.6	0.00%	83.8	0.00%	1,600.6	
d35	Research	85	27.9	0.00%	33.1	0.00%	413.3	0.01%
d011	Research	34	20.1	0.00%	20.1	0.00%	175.6	
d114	Research	0	0.0	0.00%	0.0	0.00%	5,226.3	0.12%
d137	Research	0	0.0	0.00%	0.0		1,323.5	
d142	Research	0	0.0	0.00%	0.0		4,189.2	0.10%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,880.8	0.04%
d183	Research	38	30.6	0.00%	30.6	0.00%	177.9	0.00%
d193	Research	1	0.0	0.00%	0.0	0.00%	226.3	0.01%
d435	Research	400	5,764.3	0.13%	5,764.3	0.13%	3,811.5	
d437	Research	0	0.0	0.00%	0.0	0.00%	423.5	0.01%
i246	Research	48	0.0	0.00%	715.8		0.1	0.00%
d195	Industrial	0	0.0	0.00%	0.0	0.00%	83.1	0.00%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	84.7	0.00%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	714.1	0.02%
i18	Industrial	11	56.6	0.00%	56.6	0.00%	1,518.9	0.03%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
i26	Industrial	161	479.1	0.01%	479.1	0.01%	169.4	0.00%
i28	Industrial	0	0.0	0.00%	0.0	0.00%	113.2	0.00%
i29	Industrial	0	0.0	0.00%	0.0	0.00%	31.3	0.00%
i239	Industrial	697	1,717.0	0.04%	1,717.0	0.04%	1,435.6	0.03%
i241	Industrial	9	149.4	0.00%	149.4	0.00%	1,588.4	0.04%
i242	Industrial	1	144.0	0.00%	144.0	0.00%	567.1	0.01%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	672.2	0.02%
i244	Industrial	1,731	1,181.1	0.03%	1,181.1	0.03%	688.8	0.02%
i247	Industrial	0	0.0	0.00%	0.0	0.00%	998.8	0.02%
i248	Industrial	6	124.1	0.00%	124.1	0.00%	6,510.4	0.15%
m23oc	Training	173	72.2	0.00%	72.2	0.00%	563.0	0.01%
m23ol	Training	72	93.6	0.00%	93.6	0.00%	375.3	0.01%
m23ext	Training	0	0.0	0.00%	0.0	0.00%	105.8	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	184.5	
m23exts1	Training	0	0.0		0.0		107.9	
ta093	Training	53	3.3	0.00%	3.3		748.8	
ta094	Training	36	149.1	0.00%	149.1	0.00%	2,551.7	0.06%
ta095	Training	5	0.0	0.00%	0.0		63.8	
ta096	Training	0	0.0	0.00%	0.0		63.8	
ta097	Training	0	0.0	0.00%	0.0		63.8	
ta109	Training	72	251.6	0.01%	251.6		557.9	
ta110	Training	0	0.0	0.00%	0.0		19.0	
ta111	Training	0	0.0	0.00%	0.0		19.0	0.00%
ta112	Training	0	0.0	0.00%	0.0		19.0	0.00%
ta124	Training	0	0.0	0.00%	0.0		19.1	0.00%
ta125	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta126	Training	2	0.0	0.00%	0.0		31.8	
ta127	Training	216	248.6	0.01%	248.6		660.6	
ta130	Training		0.0	0.00%	0.0		14.5	
ta132	Training	503	28.3	0.00%	28.3		19.4	0.00%
ta133	Training	390	3.6	0.00%	3.6		44.9	
ta134	Training	55	1.5		1.5		41.3	
ta135	Training	33	678.7	0.02%	678.7	0.02%	765.5	
ta136	Training	1	0.0	0.00%	0.0		9.6	
ta137	Training	134	141.9	0.00%	94.6		71.5	
ta138	Training	29	16.3	0.00%	16.3	0.00%	43.1	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
ta139	Training	0	0.0	0.00%	0.0	0.00%	22.7	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%	98.1	0.00%
t03	Service	0	0.0	0.00%	0.0	0.00%	0.5	0.00%
t04	Service	0	0.0	0.00%	0.0	0.00%	500.0	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	74.8	0.00%
y02	Service	685	1,820.0	0.04%	1,287.0	0.03%	2,117.5	0.05%
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%	24.7	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	2.4	0.00%
z02	Service	191	1,624.7	0.04%	1,085.2	0.02%	8.5	0.00%
z19	Service	7,459	17,221.3	0.40%	17,565.1	0.40%	42,349.7	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	170.4	0.00%
z99	Service	4	0.0	0.00%	0.1	0.00%	0.8	0.00%
DirectorsTime		13,335	32,049.0	0.74%	31,994.3	0.74%	85,618.5	1.97%
Total								
Total		220,312	3,835,887.0	88.16%	4,056,424.7	93.23%	4,659,977.9	107.10%

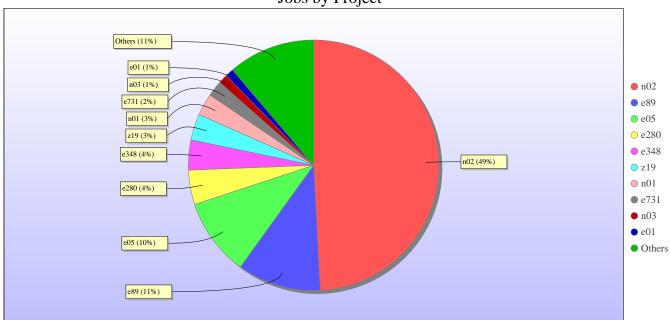




Uncharged Use by Project



Jobs by Project



CUs (by Size)

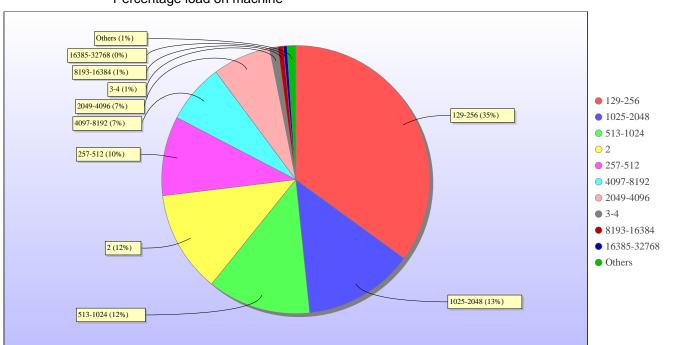
Size	CUs	Number of Jobs						
1	0	11						
2	0	27,049						
3-4	0	2,202						
5-8	1.232	864						
9-16	0.349	149						
17-32	1.743	601						
33-64	0.262	79						
129-256	133,197.05							
257-512	89,056.509	•						
513-1024	292,553.033							
1025-2048	568,517.592	29,362						

Size	CUs	Number of Jobs
2049-4096	721,501.317	15,462
4097-8192	596,944.793	15,825
8193-16384	376,747.794	1,459
16385-32768	478,151.565	965
32769-65536	374,741.81	479
65537-131072	141,779.067	69
131073-262144	56,171.046	41
262145-524288	5,826.022	7
524289-1048576	21.975	1

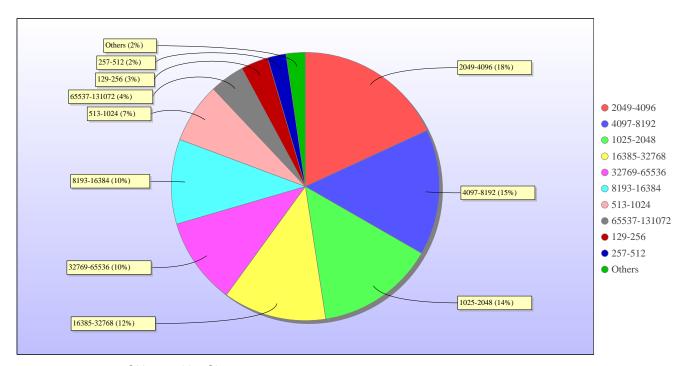
Load plots



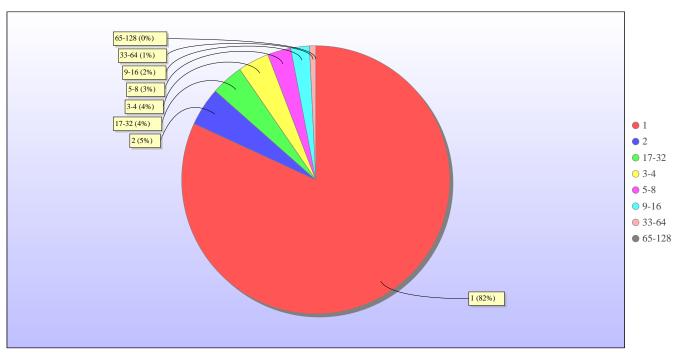
Percentage load on machine



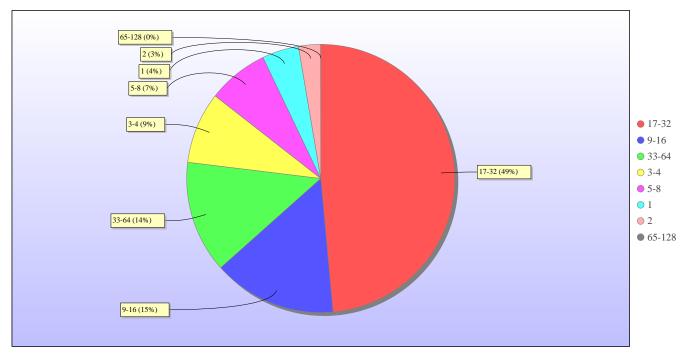
Jobs by Size



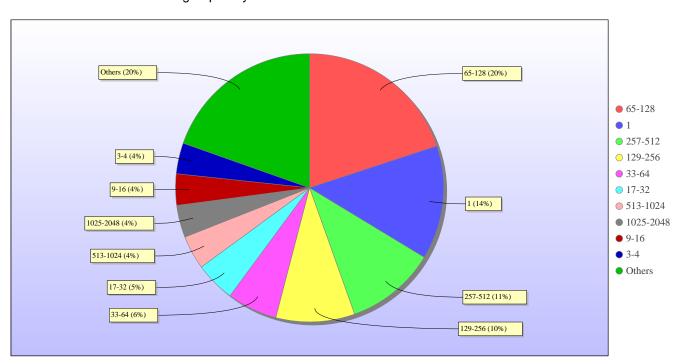
CUs used by Size



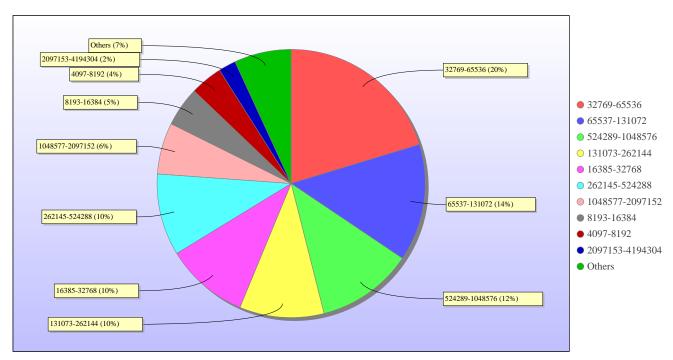
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

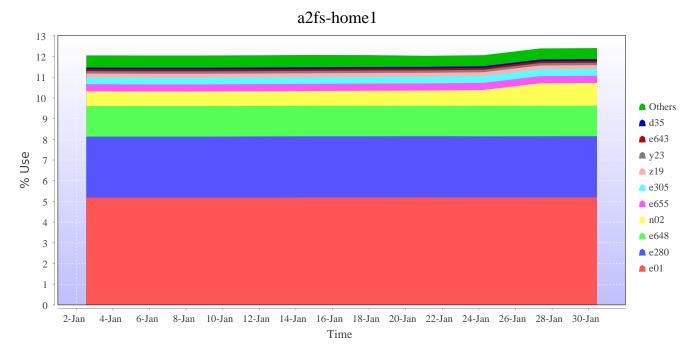


CUs used grouped by core-hours

Disk usage

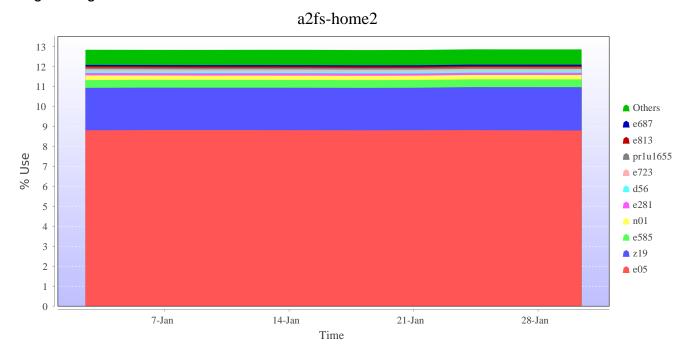
Disk usage for home (a2fs-home1)

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.



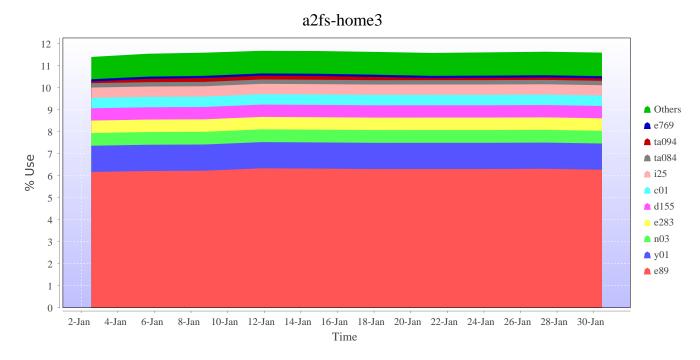
Disk usage for home (a2fs-home2)

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.



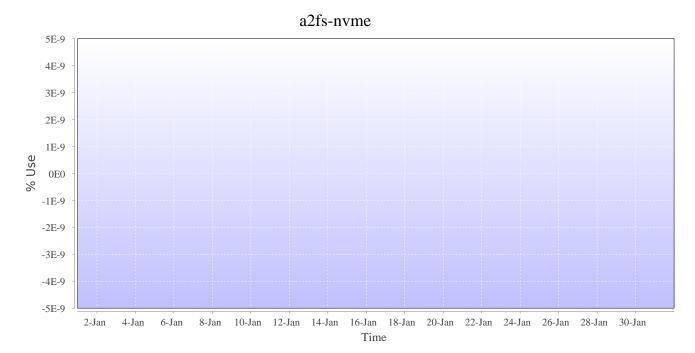
Disk usage for home (a2fs-home3)

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.



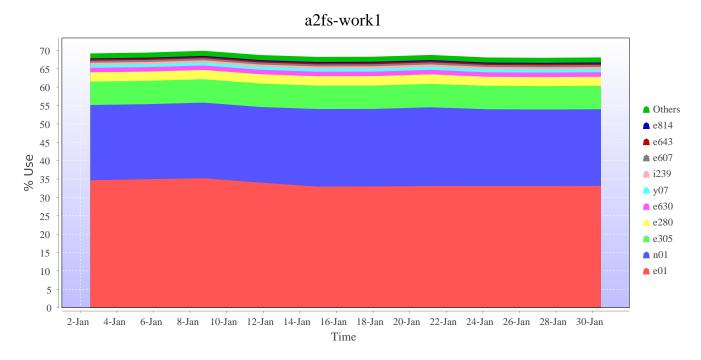
Disk usage for scratch (a2fs-nvme)

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.



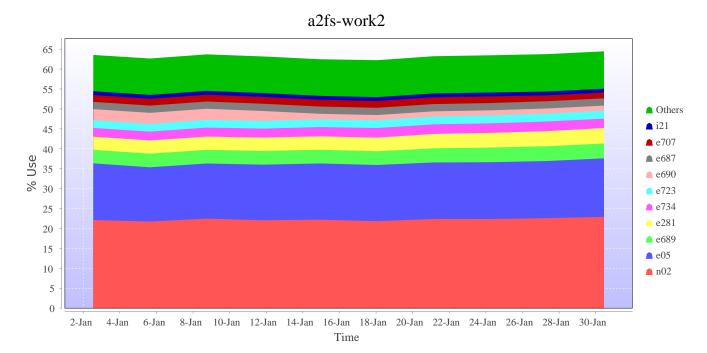
Disk usage for work (a2fs-work1)

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.



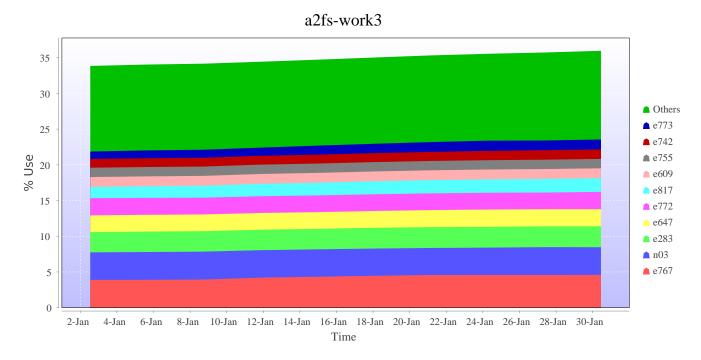
Disk usage for work (a2fs-work2)

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.



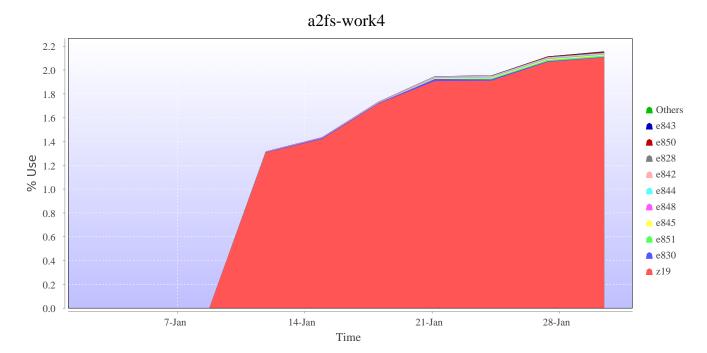
Disk usage for work (a2fs-work3)

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.



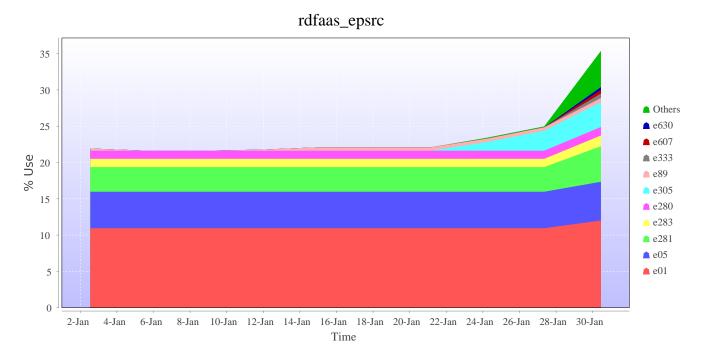
Disk usage for work (a2fs-work4)

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.

