Monthly Reporting

Report from 01 January 2023 to 31 March 2023

Report for Resource Pool Archer2 on archer2

A total of 12,625,832 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		Utilisation		Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
e572	Leadership Awards	2,061	3,122.3					
e645	Leadership Awards	2,509	6,556.3	0.05%	6,556.3	0.05%	25,977.9	0.21%
e684	Leadership Awards	372	1,445.0	0.01%	1,462.6	0.01%	4,386.4	0.03%
e787	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,442.7	0.01%
e683	Pioneer Projects	33,883	48,804.7	0.39%	48,855.3	0.39%	41,360.5	0.33%
e685	Pioneer Projects	6,066	65,319.5	0.52%	91,421.5	0.72%	33,307.2	0.26%
e686	Pioneer Projects	3,929	58,201.9	0.46%	101,029.8	0.80%	54,683.4	0.43%
e687	Pioneer Projects	964	18,774.7	0.15%	18,774.8	0.15%	64,824.7	0.51%
e688	Pioneer Projects	399	24,335.9	0.19%	25,891.1	0.21%	98,803.0	0.78%
e689	Pioneer Projects	67	49,593.2	0.39%	49,593.2	0.39%	68,602.8	0.54%
e690	Pioneer Projects	424	20,213.1	0.16%	30,403.2	0.24%	74,568.3	0.59%
e691	Pioneer Projects	270	90,774.8	0.72%	90,816.9	0.72%		0.60%
e692	Pioneer Projects	96	21,738.7	0.17%	22,722.0	0.18%	57,387.7	0.45%
c01	Class1a	2,627	96,520.1	0.76%	123,880.1	0.98%	73,664.9	
e348	Class1a	4,290	14,226.6	0.11%	14,345.9	0.11%		
e575	Class1a	3,934	17,145.9					
e607	Class1a	1,847	35,029.1					
e609	Class1a	2,437	6,212.2			0.54%	56,254.3	0.45%
e642	Class1a	14	1,186.6					0.00%
e643	Class1a	402	4,177.0				6,721.6	0.05%
e647	Class1a	1,128	17,164.6					0.90%
e649	Class1a	22	0.6				2,739.7	0.02%
e655	Class1a	62	3,065.5				3,355.7	0.03%
e663	Class1a	477	5,381.5					0.07%
e664	Class1a	0	0.0				2,609.6	0.02%
e667	Class1a	184	3,484.6				6,090.6	0.05%
e694	Class1a	886	18,012.3					0.07%
e696	Class1a	271	467.2					0.01%
e697	Class1a	151	22,243.6	0.18%	82,955.1	0.66%	25,891.6	0.21%

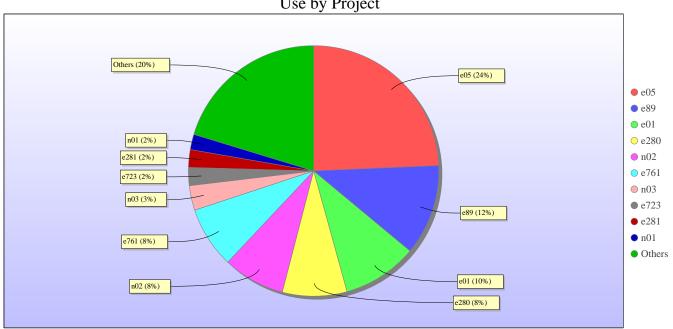
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e700	Class1a	169	3,136.4	0.02%	3,156.0	0.02%	8,202.5	0.06%
e701	Class1a	0	0.0	0.00%	0.0	0.00%	5,517.9	0.04%
e705	Class1a	216	16,675.8	0.13%	16,675.8	0.13%	10,938.9	0.09%
e707	Class1a	290	85,962.8		87,506.9	0.69%	50,985.9	0.40%
e708	Class1a	0	0.0		0.0	0.00%	10,935.9	0.09%
e710	Class1a	171	435.5		435.5	0.00%	11,910.8	0.09%
e712	Class1a	0	0.0		0.0	0.00%	13,478.3	0.11%
e720	Class1a	999	75,035.7	0.59%	80,330.0	0.64%	66,231.9	0.52%
e721	Class1a	52	49.8		50.4	0.00%	8,155.6	0.06%
e724	Class1a	0	0.0		0.0	0.00%	22,486.5	0.18%
e728	Class1a	603	10,656.7	0.08%	13,180.9	0.10%	7,018.4	0.06%
e751	Class1a	707	11,762.7	0.09%	11,789.7	0.09%	14,903.7	0.12%
e752	Class1a	0	0.0		0.0	0.00%	10,379.8	0.08%
e758	Class1a	103	112.5		112.5	0.00%	11,497.7	0.09%
e761	Class1a	383	0.0		925,164.1	7.33%	4,544.3	0.04%
e763	Class1a	0	0.0		0.0	0.00%	497.1	0.00%
e764	Class1a	158	5,348.7	0.04%	5,348.7	0.04%	58,250.5	0.46%
e769	Class1a Class1a	409	63,855.7	0.51%	85,090.3	0.67%	74,158.5	0.59%
e770 e786	Class1a Class1a	0 53	0.0 200.1	0.00% 0.00%	0.0 200.1	0.00% 0.00%	13,032.5 20,776.2	0.10% 0.16%
e6337	Class1a Class1a	20	3,422.1	0.00%	3,434.7	0.03%	5,681.8	0.16%
ec110	Class1a Class1a	0	0.0		0.0	0.00%	1,009.7	0.03%
e01	Consortia	9,790	772,605.5		1,130,405.3	8.95%	1,019,199.1	8.07%
e05	Consortia	97,922	1,904,943.5		2,842,892.4	22.52%	2,299,188.3	18.21%
e89	Consortia	107,874	1,256,431.8		1,369,224.5	10.84%	1,104,604.7	8.75%
e280	Consortia	19,950	579,942.2		974,246.7	7.72%	621,402.3	4.92%
e281	Consortia	4,871	262,125.1	2.08%	267,734.2	2.12%	278,388.2	2.20%
e283	Consortia	8,017	100,609.5		117,008.4	0.93%	149,136.5	1.18%
e305	Consortia	14	2,501.2		2,587.7	0.02%	0.0	0.00%
e585	Consortia	863	0.7		51,177.9	0.41%	0.6	0.00%
e772	Consortia	10,550	127,948.6		128,273.9	1.02%	170,411.5	1.35%
e773	Consortia	0	0.0		0.0	0.00%	33,643.8	0.27%
e739	Pump Priming	80	1,481.1	0.01%	1,481.1	0.01%	1,663.3	0.01%
e754	Pump Priming	313	1,778.5		4,121.2	0.03%	1,303.6	0.01%
e757	Pump Priming	59	2,943.1	0.02%	2,943.1	0.02%	1,551.0	0.01%
e759	Pump Priming	0	0.0	0.00%	0.0	0.00%	1,937.6	0.02%
e762	Pump Priming	14	0.1	0.00%	1,393.5	0.01%	1,153.0	0.01%
e766	Pump Priming	73	359.2	0.00%	456.8	0.00%	1,924.2	0.02%
e768	Pump Priming	0	0.0		0.0	0.00%	1,988.5	0.02%
e771	Pump Priming	0	0.0		0.0	0.00%	395.5	0.00%
e784	Pump Priming	63	384.8		384.8	0.00%		0.01%
	Pump Priming	459	116.0		116.0	0.00%	1,666.4	0.01%
	Pump Priming	161	102.5		102.5		539.8	0.00%
	Pump Priming	20	116.9		116.9		404.5	0.00%
	Pump Priming	0	0.0		0.0	0.00%	43.2	0.00%
	Access to HPC	124	1,840.3		1,840.3	0.01%	13,429.4	0.11%
	Access to HPC	108	1,762.9		6,440.2	0.05%	9,942.4	0.08%
	Access to HPC	1 600	0.0		0.0	0.00%	16,020.2	0.13%
	Access to HPC Access to HPC	1,690 179	19,494.3 3,746.4		21,050.3 3,746.4	0.17% 0.03%	9,383.4 7,052.0	0.07% 0.06%
	Access to HPC	1,009	26,008.2		26,225.6		24,856.1	0.06%
	Access to HPC	78	1,209.5		1,209.5		20,423.8	0.20%
	Access to HPC	486	7,102.0		7,214.4	0.06%	6,214.0	0.05%
	Access to HPC	245	23,086.0			0.18%	21,677.8	0.03%
	Access to HPC	228	21,338.6		23,217.3	0.18%	10,849.2	0.09%
	Access to HPC	23	6,114.2		25,222.8	0.20%	4,112.2	0.03%
	Access to HPC	0	0.0		0.0	0.00%	33,203.8	0.26%
	Access to HPC	165	56,971.3		63,039.9	0.50%	184,421.5	1.46%
	Access to HPC	691	77,705.9		77,707.9		74,656.0	0.59%
	Access to HPC	190	19,421.2		19,421.2		21,952.9	0.17%
	Access to HPC	1,400	6,807.0		6,807.0		28,356.5	0.22%
	Access to HPC	76	43,473.2		44,411.1	0.35%	45,673.8	0.36%
	Access to HPC	629	18,314.5			0.15%		0.13%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e777	Access to HPC	56	8,125.3		9,816.3	0.08%	20,553.2	0.16%
	Access to HPC	327	3,216.8		3,262.4	0.03%	24,298.5	
	Access to HPC	350	1,490.9		1,510.3	0.01%	2,283.7	0.02%
e780	Access to HPC	113	5,817.8		5,817.8	0.05%	18,269.5	
	Access to HPC	54	13.6		13.6	0.00%	4,567.4	0.04%
	Access to HPC	365	16,173.0		16,173.5	0.13%	7,942.4	0.06%
	Access to HPC	342	9,372.8		9,372.8	0.07%	16,662.2	0.13%
EPSRC Total		344,126	6,322,848.2		9,633,788.8	76.30%	7,763,371.6	
n01	Consortia	52,322	218,083.5		230,818.9	1.83%	435,250.5	
n02		127,215	907,906.1	7.19%	933,684.8	7.40%	1,551,966.1	12.29%
n03	Consortia	6,479	369,073.1	2.92%	372,262.3	2.95%	482,078.1	3.82%
n09	Pump Priming	10	2.8		2.8	0.00%	1,977.6	
NERC Total	, ,	186,026	1,495,065.6	11.84%	1,536,768.9	12.17%	2,471,272.2	19.57%
b19	Class1a	138	2,676.2		2,707.5	0.02%	7,905.7	0.06%
BBSRC Total		138	2,676.2		2,707.5	0.02%	7,905.7	0.06%
e756	Leadership	317	31.2		31.2	0.00%	14,863.9	
700	Awards	40	05.7	0.000/	0.5.7	0.000/	0.470.4	0.000/
e760	Leadership Awards	48	35.7	0.00%	35.7	0.00%	2,470.4	0.02%
e723		2,054	100,304.7	0.79%	272,878.5	2.16%	123,597.4	0.98%
e738		0	0.0		0.0	0.00%	48,026.6	
UKRI Total		2,419	100,371.6		272,945.4	2.16%	188,958.4	1.50%
pr1u1555	DECI: EXEC	180	220.8		224.6	0.00%	942.1	0.01%
pr1u1751	DECI: EXEC	7	72.2		72.2	0.00%	0.0	0.00%
pr1u1756		147	3,537.2		3,537.2	0.03%	6,432.2	0.05%
pr1ush02		9	183.2		249.3	0.00%	5,821.4	0.05%
PRACE Total		343	4,013.4	0.03%	4,083.3	0.03%	13,195.8	0.10%
ecseaa26	eCSE	161	2,234.3		19,191.2	0.15%	901.9	0.01%
ecseac14		0	0.0		0.0	0.00%	189.6	0.00%
ecseac15	eCSE	88	12.6		12.6	0.00%	389.0	0.00%
ecsead01	eCSE	0	0.0	0.00%	0.0	0.00%	6.3	0.00%
ecsead02		0	0.0		0.0	0.00%	304.9	0.00%
ecsead03	eCSE	0	0.0	0.00%	0.0	0.00%	372.8	0.00%
ecsead06		0	0.0		0.0	0.00%	340.7	0.00%
ecsead08		93	546.6		9,127.0	0.07%	231.0	0.00%
ecseae03		196	0.0		400.5	0.00%	268.6	0.00%
ecseae04		538	300.9		300.9	0.00%	346.8	0.00%
ecseae08	eCSE	0	0.0	0.00%	0.0	0.00%	346.0	0.00%
ecseae09		0	0.0		0.0	0.00%	338.7	0.00%
ecseaf01	eCSE	169	62.8	0.00%	62.8	0.00%	303.0	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	152.9	0.00%
ecseaf03	00=	48	8.4	2 2 2 2 4	10.1	0.00%	147.2	2 222/
ecseaf04		0	0.0		0.0	0.00%	188.9	
ecseaf06	eCSE	0	0.0	0.00%	0.0	0.00%	292.5	
ecseag01	eCSE	0	0.0	0.00%	0.0	0.00%	200.0	
ecseag02		36	21.2		21.2	0.00%	252.8	
ecseag03		0	0.0		0.0	0.00%	182.7	0.00%
ecseag06	eCSE	189	2.9		4.7	0.00%	125.1	0.00%
ecseag08		0	0.0		0.0	0.00%	169.3	
ecseag09		0	0.0	0.00%	0.0	0.00%	182.0	0.00%
ecseah03	eCSE	0	0.0	0.00%	0.0	0.00%	264.1	0.00%
ecseah06		0	0.0		0.0	0.00%	318.1	0.00%
eCSE Total		1,518	3,189.7	0.03%	29,130.9	0.23%	6,814.9	0.05%
d35	Research	245	384.5	0.00%	389.0	0.00%	492.9	0.00%
d011	Research	22	0.2	0.00%	0.2	0.00%	509.7	0.00%
d114		0	0.0	0.00%	0.0	0.00%	15,166.1	0.12%
d137		942	3,303.6		7,910.2	0.06%	4,892.8	
d142		34	3,287.3		3,287.3	0.03%	14,795.8	
d170		0	0.0		0.0	0.00%	148.3	
d175		0	0.0		0.0	0.00%	4,103.4	0.03%
d177	Research	0	0.0	0.00%	0.0	0.00%	52.1	0.00%
d193	Research	45	2.4	0.00%	8.0	0.00%	985.8	0.01%
d435	Research	921	875.5	0.01%	1,887.1	0.01%	246.5	0.00%

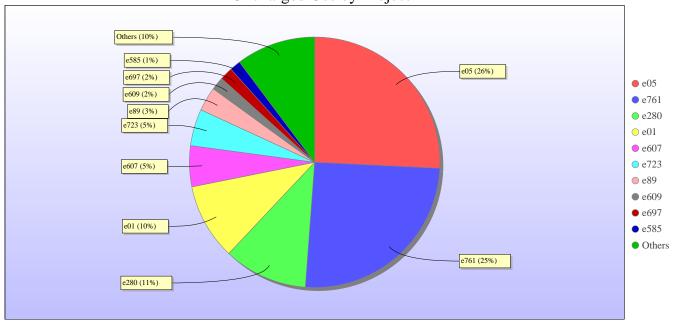
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
d436	Research	0	0.0	0.00%	0.0	0.00%	985.8	0.01%
dc129	Research	1,797	483.7	0.00%	483.7	0.00%	8,214.9	
d105	Industrial	0	0.0	0.00%	0.0	0.00%	9,885.0	0.08%
d181	Industrial	441	0.0	0.00%	32,092.3	0.25%	3,025.8	0.02%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	4,929.2	0.04%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	241.2	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	45.7	0.00%
dc150	Industrial	0	0.0	0.00%	0.0	0.00%	366.9	0.00%
i01	Industrial	87	1,437.2	0.01%	1,483.3	0.01%	526.6	0.00%
i18	Industrial	99	252.9	0.00%	252.9	0.00%	6,822.8	0.05%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	49,425.2	0.39%
i24	Industrial	0	0.0	0.00%	0.0	0.00%	98.9	0.00%
i25	Industrial	0	0.0	0.00%	0.0	0.00%	264.2	0.00%
i26	Industrial	478	370.3	0.00%	370.3	0.00%	863.3	0.01%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	1,482.8	
i239	Industrial	1,427	7,432.6		7,432.6	0.06%	3,027.0	0.02%
i241	Industrial	76	13,629.6		13,629.6	0.11%	4,959.0	0.04%
i242	Industrial	112	0.7	0.00%	0.7	0.00%	1,981.5	0.02%
i243	Industrial	112	3,170.9	0.03%	3,170.9	0.03%	701.2	0.01%
i244	Industrial	0	0.0	0.00%	0.0	0.00%	5,664.9	0.04%
d176	Training	108	20.9	0.00%	20.9	0.00%	31.6	
d180	Training	6	0.0	0.00%	0.0	0.00%	452.3	
m22oc	Training	185	8.3	0.00%	59.6	0.00%	1,138.7	0.01%
m22ol	Training	45	34.5	0.00%	34.5	0.00%	1,138.7	0.01%
m22ext	Training	0	0.0	0.00%	0.0		455.5	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	431.5	0.00%
m22exts1	Training	0	0.0	0.00%	0.0	0.00%	227.7	0.00%
ta046	Training	0	0.0	0.00%	0.0	0.00%	92.7	0.00%
ta047	Training	0	0.0		0.0		92.7	0.00%
ta047	Training	9	0.3	0.00%	0.3	0.00%	1,484.0	0.01%
ta052	Training	0	0.0	0.00%	0.0	0.00%	97.6	
ta055	Training	0	0.0	0.00%	0.0		55.3	0.00%
ta068	Training	0	0.0	0.00%	0.0	0.00%	55.3	0.00%
ta069	Training	0	0.0	0.00%	0.0	0.00%	55.3	0.00%
ta009	Training	138	316.0	0.00%	316.0	0.00%	1,769.7	0.01%
ta070	Training	0	0.0	0.00%	0.0	0.00%	3.3	0.00%
ta081	Training	277	25.6	0.00%	25.6	0.00%	2,216.4	0.02%
ta084	Training	0	0.0	0.00%	0.0	0.00%	111.0	0.02 %
ta086	Training	0	0.0	0.00%	0.0	0.00%	55.4	0.00%
ta087		0	0.0		0.0	0.00%	55.4 55.4	0.00%
	Training	0		0.00% 0.00%				
ta088	Training		0.0		0.0	0.00%	37.3	0.00% 0.00%
ta089	Training	6 0	0.1		0.1		14.8	
ta090	Training	-	0.0		0.0		4.0	
ta091	Training	0	0.0	0.00%	0.0	0.00%	20.0	0.00%
ta093	Training	825	547.8		32,627.8		2,172.9	
ta094	Training	6,010	2,280.4		6,557.0		7,404.6	
ta095	Training	0	0.0		0.0		185.1	0.00%
ta096	Training	12	0.1	0.00%	0.1	0.00%	185.1	0.00%
ta097	Training	12	3.3	0.00%	3.3		185.1	0.00%
ta098	Training	0	0.0	0.00%	0.0	0.00%	100.0	0.00%
ta099	Training	991	260.6		173.9		450.0	
ta100	Training	84	1.6		1.6		105.3	
ta101	Training	0	0.0	0.00%	0.0	0.00%	202.0	0.00%
ta102	Training	205	1,041.8		694.8		638.3	
ta103	Training	0	0.0		0.0		81.1	0.00%
ta104	Training	35	0.0	0.00%	0.1	0.00%	157.0	0.00%
ta105	Training	0	0.0	0.00%	0.0	0.00%	66.8	
ta106	Training	23	0.2		0.2		133.7	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	12.3	
y01	Service	0	0.0	0.00%	0.0		217.2	
y02	Service	1,776	52.4		12,143.9		2,464.6	
y07	Service	3	0.0	0.00%	36.4	0.00%	240.5	
y23	Service	9	0.6	0.00%	0.6	0.00%	237.9	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
z01	Service	0	0.0	0.00%	0.0	0.00%	24.1	0.00%
z02	Service	143	0.7	0.00%	0.8	0.00%	130.5	0.00%
z19	Service	3,552	85,754.8	0.68%	86,205.9	0.68%	123,569.1	0.98%
z99	Service	0	0.0	0.00%	0.0	0.00%	2.4	0.00%
DirectorsTime		21,292	124,980.9	0.99%	211,301.4	1.67%	293,967.0	2.33%
Total								
z39	Service	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
Internal Total		0	0.0	0.00%	0.0	0.00%	10.0	0.00%
Total		555,862	8,053,145.6	63.78%	11,690,726.2	92.59%	10,745,495.7	85.11%

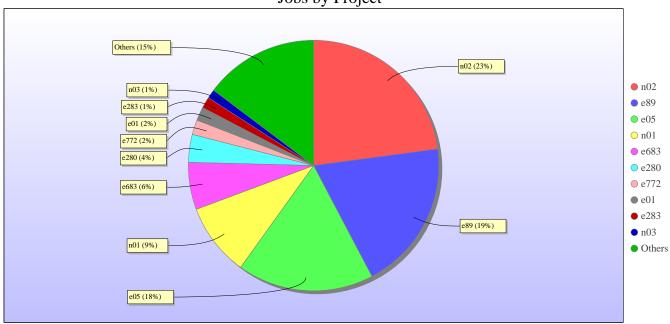
Use by Project







Jobs by Project



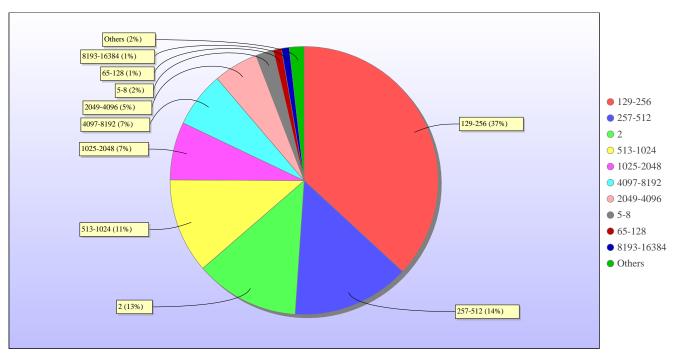
CUs (by Size)

Size	CUs	Number of Jobs
1	0	867
2	0	69,914
3-4	0	89
5-8	0	11,963
9-16	0	275
17-32	0	749
33-64	0	257
65-128	0	5,462
129-256	443,921.793	204,920
257-512	432,006.065	78,979
513-1024	779,132.271	
1025-2048	1,065,152.316	38,908
2049-4096	1,401,699.574	
4097-8192	1,170,273.482	37,112
8193-16384	1,140,925.996	5,169
16385-32768	594,634.958	3,964
32769-65536	511,392.599	2,797
65537-131072	258,179.316	616
131073-262144	171,873.612	280
262145-524288	79,466.029	30
524289-1048576	1,059.271	9

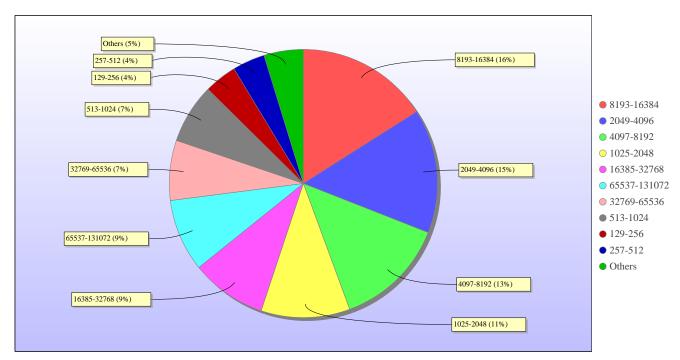
Load plots



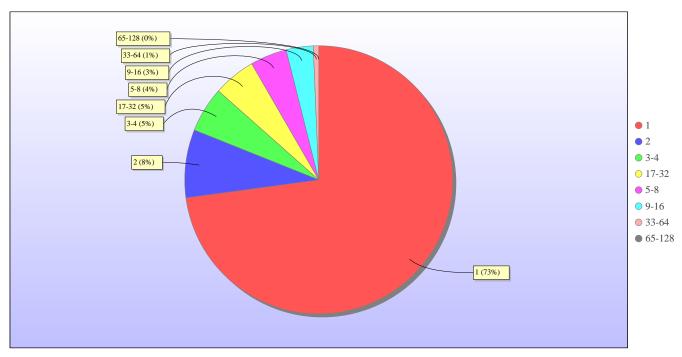
Percentage load on machine



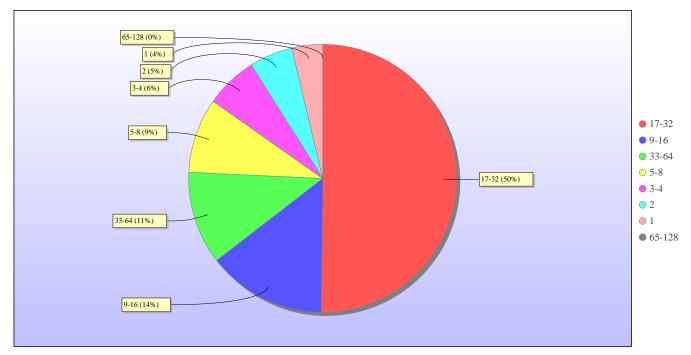
Jobs by Size



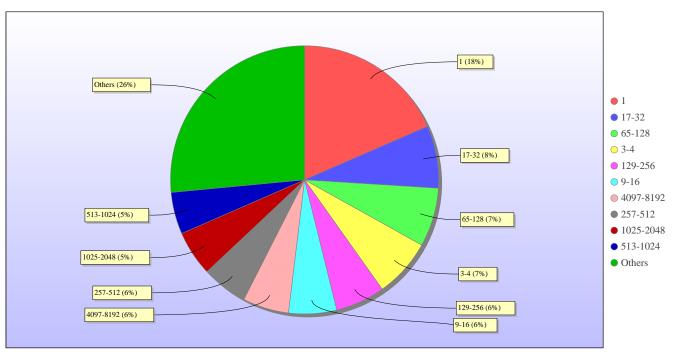
CUs used by Size



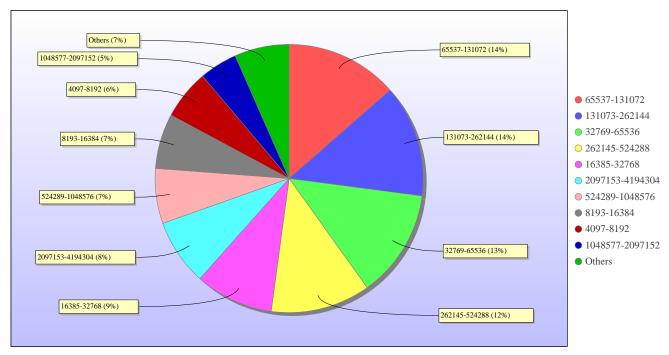
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

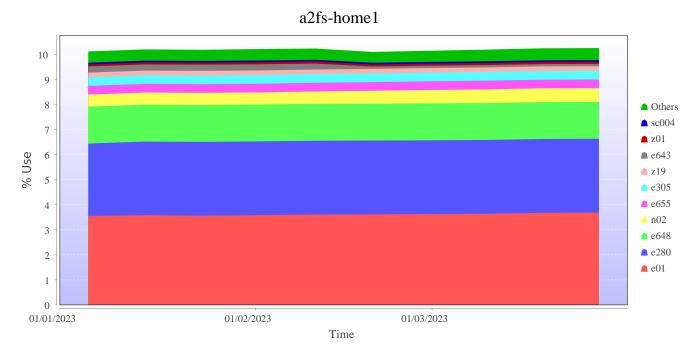


CUs used grouped by core-hours

Disk usage

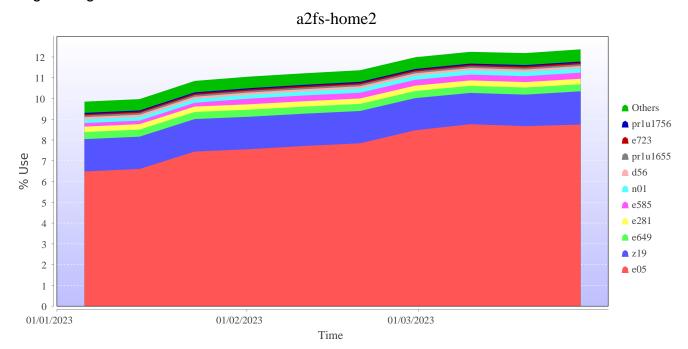
Disk usage for home (a2fs-home1)

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.



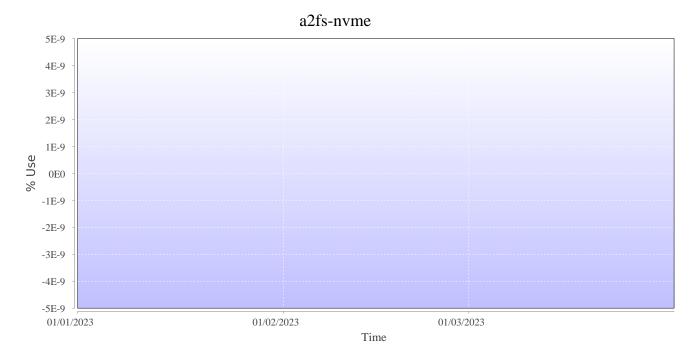
Disk usage for home (a2fs-home3)

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.



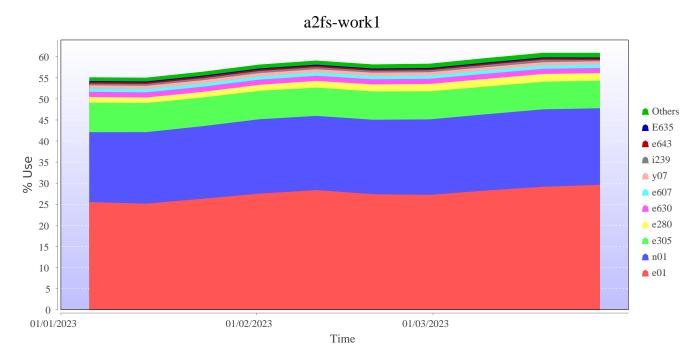
Disk usage for work-nVME (a2fs-nvme)

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.



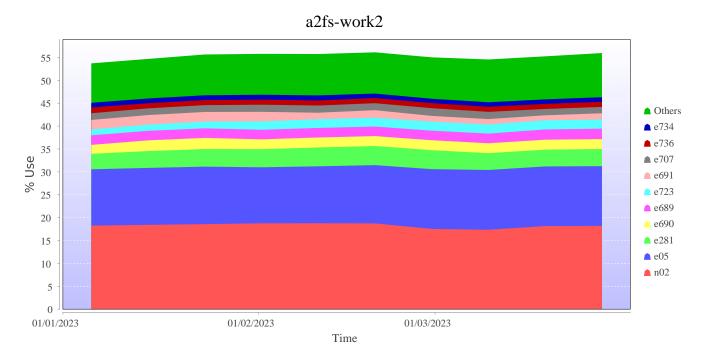
Disk usage for work (a2fs-work1)

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.



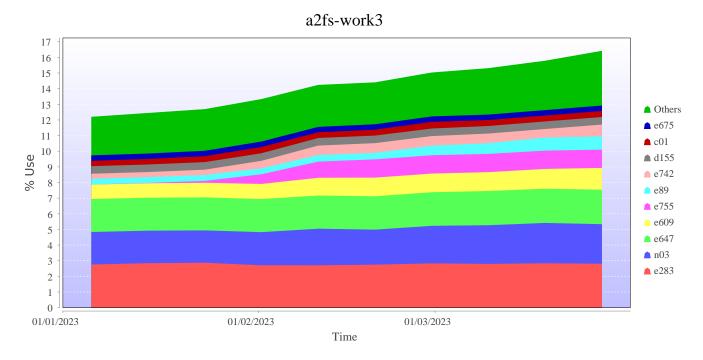
Disk usage for work (a2fs-work2)

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.



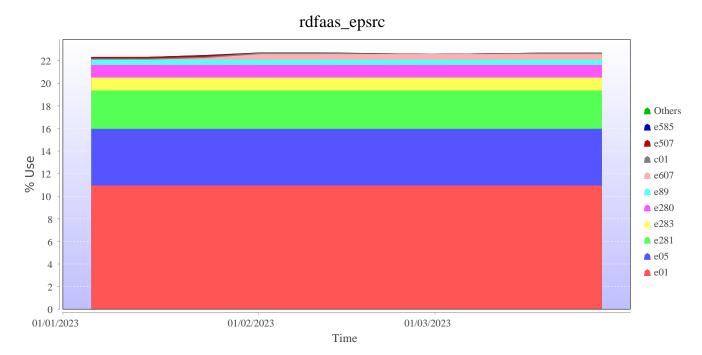
Disk usage for work (a2fs-work3)

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.

