Monthly Reporting

Report from 01 October 2022 to 31 December 2022

Report for Resource Pool Archer2 on archer2

A total of 12,918,232 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	Allocated	Allocation
-	Class	of Jobs	CUs	Utilisation			CUs	
e572	Leadership Awards	356	5,403.3					
e645	Leadership Awards	3	277.7	0.00%	277.7	0.00%	0.0	0.00%
e684	Leadership Awards	166	433.3	0.00%	433.3	0.00%	4,488.0	0.03%
e683	Pioneer Projects	9,541	51,313.7				41,609.4	0.32%
e685	Pioneer Projects	13,224	64,059.3	0.50%	149,873.6	1.16%	61,513.9	0.48%
e686	Pioneer Projects	23,446	84,945.2	0.66%	85,638.0	0.66%	55,012.5	0.43%
e687	Pioneer Projects	1,965	28,228.3	0.22%	28,237.2	0.22%	50,011.3	0.39%
e688	Pioneer Projects	553	22,782.9	0.18%	22,848.5	0.18%	66,265.0	0.51%
e689	Pioneer Projects	94	31,374.8	0.24%	33,793.6	0.26%	80,518.2	0.62%
e690	Pioneer Projects	1,748	54,879.3	0.42%	111,730.5	0.86%	75,017.0	0.58%
e691	Pioneer Projects	120	40,081.0					
e692	Pioneer Projects	363	75,964.0			0.59%		
e693	Pioneer Projects	234	140,846.9	1.09%	144,642.6	1.12%	73,816.7	
c01	Class1a	1,830	33,090.1	0.26%	35,755.2	0.28%	81,168.6	0.63%
e348	Class1a	5,004	12,407.3	0.10%	12,407.3	0.10%	32,157.3	0.25%
e575	Class1a	678	3,265.3	0.03%	3,265.3	0.03%	10,168.0	0.08%
e607	Class1a	1,590	23,524.3			1.06%		
e609	Class1a	1,246	141.9					
e642	Class1a	787	14,067.0	0.11%	14,347.7	0.11%	14,359.9	
e643	Class1a	981	12,286.3	0.10%	12,286.3	0.10%	8,993.8	0.07%
e647	Class1a	373	99.7			0.22%		
e649	Class1a	0	0.0	0.00%	0.0	0.00%	931.7	
e655	Class1a	735	1,979.4		164,928.7	1.28%		
e663	Class1a	0	0.0					
e664	Class1a	0	0.0					
e667	Class1a	223	5,045.4					
e694	Class1a	336	5,172.8					
e696	Class1a	1,292	4,032.7					
e697	Class1a	212	55,123.0	0.43%	131,168.6	1.02%	26,047.4	0.20%

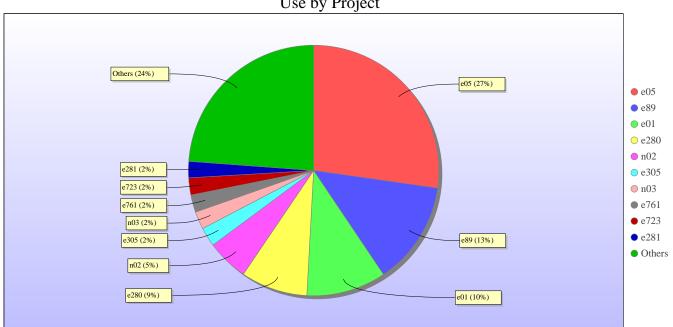
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e700	Class1a	27	1,199.2	0.01%	1,199.2	0.01%	13,203.0	0.10%
e701	Class1a	57	15,070.6	0.12%	15,070.6	0.12%	5,748.9	0.04%
e702	Class1a	0	0.0	0.00%	0.0	0.00%	2,987.7	0.02%
e705	Class1a	585	6,259.1	0.05%	6,259.1	0.05%	11,033.5	0.09%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	2,520.6	0.02%
e707	Class1a	135	948.4	0.01%	948.4	0.01%	35,466.1	0.27%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	13,909.8	0.11%
e710	Class1a	102	225.3	0.00%	225.3	0.00%	12,201.6	0.09%
e712	Class1a	9	3,554.0	0.03%	3,554.0	0.03%	43,388.4	0.34%
e720	Class1a	11,566	58,689.7	0.45%	69,772.3	0.54%	67,499.8	0.52%
e721	Class1a	54	40.4	0.00%	41.8	0.00%	8,344.4	0.06%
e724	Class1a	100	1.4	0.00%	1.4	0.00%	35,079.6	0.27%
e728	Class1a	142	2,084.9	0.02%	2,084.9	0.02%	7,220.3	0.06%
e751	Class1a	684	21,135.9	0.16%	21,180.6	0.16%	14,993.4	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	10,620.2	0.08%
e758	Class1a	0	0.0	0.00%	0.0	0.00%	10,680.6	0.08%
e761	Class1a	444	4,866.1	0.04%	262,594.8	2.03%	4,993.3	0.04%
e763	Class1a	0	0.0	0.00%	0.0	0.00%	1,000.0	0.01%
e764	Class1a	144	743.5	0.01%	743.5	0.01%	59,599.5	0.46%
e769	Class1a	0	0.0	0.00%	0.0	0.00%	25,555.3	0.20%
e6337	Class1a	137	10,764.4	0.08%	10,764.4	0.08%	6,406.8	0.05%
e01	Consortia	6,305	714,577.0	5.53%	1,198,741.4	9.28%	670,241.7	5.19%
e05	Consortia	101,602	1,968,704.3		3,176,981.1	24.59%	2,122,432.9	
e89		70,228	1,360,466.0		1,554,897.9		1,005,362.6	7.78%
e280	Consortia	21,759	428,969.7	3.32%	1,004,540.6	7.78%	446,828.6	
e281	Consortia	5,324	222,724.1	1.72%	245,141.0	1.90%	223,415.6	1.73%
e283	Consortia	9,881	148,439.2	1.15%	191,748.5	1.48%	111,707.8	
e305	Consortia	5,962	262,369.7	2.03%	288,773.5	2.24%	335,120.9	2.59%
e585	Consortia	2,949	63,424.9	0.49%	81,954.5	0.63%	335,120.9	2.59%
e772	Consortia	0	0.0	0.00%	0.0	0.00%	32,203.7	0.25%
e773	Consortia	0	0.0	0.00%	0.0	0.00%	6,357.9	0.05%
e739		389	1,886.7	0.01%	1,886.7	0.01%	2,014.3	0.02%
e749	Pump Priming	195	1,681.4	0.01%	1,681.4	0.01%	884.0	0.01%
e754	Pump Priming	111	1,234.4	0.01%	1,234.4	0.01%	2,033.6	0.02%
e757	Pump Priming	96	939.5	0.01%	939.5	0.01%	1,831.3	0.01%
e759	Pump Priming	0	0.0	0.00%	0.0	0.00%	1,982.4	0.02%
e762	Pump Priming	67	4,666.8	0.04%	4,666.9	0.04%	3,670.6	0.03%
e766		19	495.1	0.00%	495.1	0.00%	1,434.0	0.01%
e768	Pump Priming	35	331.1	0.00%	331.1	0.00%	1,061.0	0.01%
e771	Pump Priming	0	0.0	0.00%	0.0	0.00%	118.7	0.00%
ta092	Training	25	2.6	0.00%	2.6	0.00%	500.0	0.00%
e507	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,985.7	0.02%
	Access to HPC	0	0.0	0.00%	0.0		10,893.7	
e673	Access to HPC	333	18,675.8	0.14%	125,668.1	0.97%	7,343.2	0.06%
e676	Access to HPC	23	627.6	0.00%	627.6		0.0	0.00%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	25,447.6	0.20%
e727	Access to HPC	736	13,727.3	0.11%	14,088.1	0.11%	9,834.5	0.08%
e730	Access to HPC	358	14,212.8	0.11%	14,212.8	0.11%	9,602.2	0.07%
	Access to HPC	1,337	48,908.3		49,734.7	0.38%	27,230.2	0.21%
e732	Access to HPC	448	26,164.9	0.20%	26,305.4	0.20%	15,003.4	0.12%
e733	Access to HPC	1,140	29,889.9		29,909.0		12,482.8	
	Access to HPC	650	53,683.4	0.42%	54,817.7	0.42%	22,837.5	0.18%
	Access to HPC	294	59,717.7	0.46%	60,217.2	0.47%	20,896.8	0.16%
e736	Access to HPC	323	70,591.5	0.55%	84,573.7	0.65%	36,008.2	0.28%
	Access to HPC	494	7,675.1	0.06%	7,675.1	0.06%	3,884.2	0.03%
e743	Access to HPC	534	19,022.7	0.15%	19,022.7	0.15%	22,179.8	
e744	Access to HPC	612	8,110.7	0.06%	12,799.5	0.10%	15,130.0	0.12%
e745	Access to HPC	25	0.0	0.00%	14,574.6	0.11%	5,734.8	0.04%
e746	Access to HPC	92	11,804.7	0.09%	11,822.2	0.09%	46,305.1	0.36%
	Access to HPC	162	18,119.5		18,119.5		63,905.8	
e748	Access to HPC	274	79,833.6		80,784.4	0.63%	74,104.5	
e755	Access to HPC	0	0.0		0.0		1,957.9	
	Access to HPC	9	81.9		81.9	0.00%	5,358.7	0.04%
<u> </u>		<u> </u>	\$0	3.0070	\$0	3.0070	2,000.1	3.0 . 70

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
	Access to HPC	0	0.0		0.0	0.00%	8,123.5	
	Access to HPC	3	0.2		0.2		3,005.7	0.02%
	Access to HPC	0	0.0		0.0		3,655.6	
	Access to HPC	0	0.0		0.0	0.00%	4,321.7	0.03%
	Access to HPC	0	0.0	0.00%	0.0	0.00%	406.2	0.00%
	Access to HPC	0	0.0		0.0	0.00%	3,249.4	0.03%
	Access to HPC Access to HPC	0 21	0.0 43.2	0.00% 0.00%	0.0 43.2	0.00% 0.00%	812.4 280.5	0.01% 0.00%
	Access to HPC	0	0.0		0.0	0.00%	740.9	0.00%
EPSRC Total	Access to TIP C	314,101	6,558,210.6		10,095,369.5	78.15%	7,066,350.1	54.70%
n01	Consortia	17,515	146,402.5		157,263.5	1.22%	445,330.4	3.45%
n02		85,401	579,750.3		626,394.4	4.85%	1,587,907.9	12.29%
n03		7,118	264,759.6		265,061.1	2.05%	493,242.5	
n09		0	0.0		0.0	0.00%	373.7	0.00%
NERC Total	- Gpg	110,034	990,912.5		1,048,718.9	8.12%	2,526,854.4	19.56%
b19	Class1a	676	9,573.4		9,573.4	0.07%	5,886.8	0.05%
BBSRC Total		676	9,573.4	0.07%	9,573.4	0.07%	5,886.8	
e756	·	36	4.4		4.4		10,109.2	
700	Awards	10	4.075.0	2.222/	4.075.0	0.000/	0.044.7	0.000/
e760		42	4,275.9	0.03%	4,275.9	0.03%	3,644.7	0.03%
e723	Awards Class1a	3,147	167,070.7	1.29%	257,622.1	1.99%	92,614.9	0.72%
e723		257	53.0		53.2		25,005.7	0.72%
UKRI Total	Classia	3,482	171,404.0	1.33%	261,955.5	2.03%	131,374.6	
pr1u1555	DECI: EXEC	0,402	0.0	0.00%	0.0	0.00%	1,270.4	0.01%
pr1u1657	DECI: EXEC	0	0.0		0.0		532.9	
pr1u1751	DECI: EXEC	2,282	11,554.6		11,554.6	0.09%	4,000.4	0.03%
pr1u1756		1,112	19,819.4	0.15%	19,925.4	0.15%	19,097.8	
PRACE Total	22011 27120	3,394	31,374.0		31,479.9	0.24%	24,901.5	
ecseaa11	eCSE	107	591.8		591.8	0.00%	68.8	0.00%
ecseaa13	eCSE	1,504	774.1	0.01%	961.1	0.01%	270.7	0.00%
ecseaa19	eCSE	0	0.0	0.00%	0.0	0.00%	99.7	0.00%
ecseaa26		330	3,532.6	0.03%	8,391.4	0.06%	922.8	0.01%
ecseaa28		165	5.7	0.00%	9,801.9	0.08%	121.3	0.00%
ecseab02		0	0.0	0.00%	0.0	0.00%	180.2	0.00%
ecseac04		0	0.0	0.00%	0.0	0.00%	98.3	0.00%
ecseac05	eCSE	0	0.0		0.0	0.00%	125.9	0.00%
ecseac12	eCSE	0	0.0		0.0	0.00%	165.8	0.00%
ecseac14		0	0.0		0.0		194.0	0.00%
ecseac15	eCSE	5	0.6		0.6	0.00%	398.0	0.00%
ecsead01	eCSE	0	0.0	2 2 2 2 4	0.0	0.00%	291.6	
ecsead02		0	0.0		0.0		483.9	
ecsead03		0	0.0		0.0		381.4	
ecsead06		89	2,981.4		2,981.4		1,045.3	
ecsead08 ecseae03		248	737.6 0.0		3,832.9 0.0		231.6 277.9	
ecseae03		0	0.0	0.00%	0.0	0.00%	354.9	
ecseae04 ecseae08		0	0.0		0.0		354.9	
ecseae08		0	0.0		0.0		346.6	
ecseaf01	eCSE	54	3.3		3.3		310.0	0.00%
ecseaf02		0	0.0		0.0		156.4	0.00%
ecseaf03		0	0.0		0.0		150.6	
ecseaf04		0	0.0		0.0	0.00%	193.3	
ecseaf06		0	0.0		0.0	0.00%	299.3	
ecseag01	eCSE	0	0.0		0.0		133.4	
ecseag02		42	30.7	0.00%	30.7	0.00%	258.6	
ecseag03	eCSE	0	0.0		0.0		121.8	
ecseag06	eCSE	185	2.7	0.00%	5.8		128.0	0.00%
ecseag08		0	0.0		0.0		112.9	
ecseag09		0	0.0		0.0	0.00%	121.4	
ecseah06		0	0.0		0.0		42.4	0.00%
eCSE Total		2,729	8,660.5		26,600.8		8,440.8	
d35	Research	1,335	339.9	0.00%	339.9	0.00%	551.1	0.00%

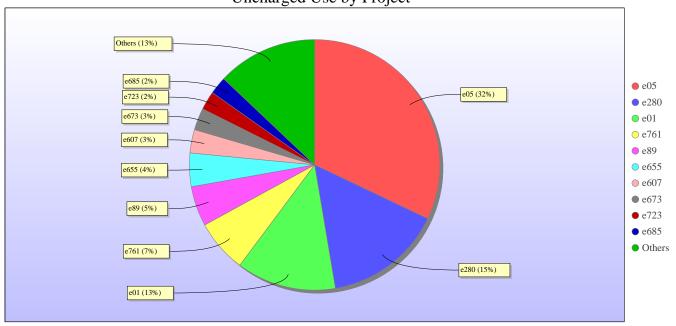
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
d56	Research	68	1,414.1	0.01%	1,414.1		0.0	0.00%
d011	Research	121	3,355.1	0.03%	3,355.1		385.5	0.00%
d114	Research	340	3,761.7	0.03%	3,761.7		15,517.3	0.12%
d137	Research	595	16,706.2	0.13%	16,706.2	0.13%	4,992.9	
d142	Research	152	16,151.5	0.13%	16,151.5		15,138.4	0.12%
d170	Research	0	0.0	0.00%	0.0		150.0	0.00%
d175	Research	0	0.0	0.00%	0.0	0.00%	1,435.6	0.01%
d177	Research	445	115.3	0.00%	115.3		252.2	0.00%
d179	Research	0	0.0	0.00%	0.0	0.00%	1,700.9	0.01%
d192	Research	0	0.0	0.00%	0.0		33.3	0.00%
d193	Research	42	0.1	0.00%	1.2		1,008.7	0.01%
d435	Research	35	0.1	0.00%	30.1	0.00%	158.9	0.00%
d436	Research	0	0.0	0.00%	0.0	0.00%	339.7	0.00%
dc129	Research	2,579	1,106.8	0.01%	1,106.8	0.01%	5,043.4	0.04%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	10,002.3	0.08%
d181	Industrial	1,388	0.0	0.00%	61,627.2	0.48%	3,586.0	0.03%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	5,043.4	0.04%
d433	Industrial	14	2.7	0.00%	2.7	0.00%	232.4	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	46.7	0.00%
dc150	Industrial	0	0.0	0.00%	0.0	0.00%	1,688.5	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	15.9	0.00%
i18	Industrial	4	28.8	0.00%	28.8		6,980.8	
i21	Industrial	0	0.0	0.00%	0.0		50,011.3	0.39%
i24	Industrial	0	0.0	0.00%	0.0		100.0	0.00%
i25	Industrial	120	30.6		30.6		300.7	0.00%
i26	Industrial	190	457.9	0.00%	457.9		628.5	0.00%
i27	Industrial	0	0.0	0.00%	0.0		1,326.4	0.01%
i238	Industrial	0	0.0	0.00%	0.0		1,500.3	0.01%
i239	Industrial	752	3,109.4	0.02%	3,115.7	0.02%	2,350.8	
i241	Industrial	17	555.8	0.00%	555.8		9,718.4	0.08%
i242	Industrial	559	5,294.7	0.04%	5,294.7	0.04%	2,027.3	0.02%
i243	Industrial	0	0.0	0.00%	0.0		717.4	
i244	Industrial	0	0.0	0.00%	0.0		5,796.1	0.04%
d176	Training	91	4.5		4.5		93.7	0.00%
d180	Training	6	0.0	0.00%	0.0		1,342.8	
m22oc	Training	0	0.0	0.00%	0.0		1,165.1	0.01%
m22ol	Training	311	211.0	0.00%	211.0		1,165.1	0.01%
m22ext	Training	0	0.0	0.00%	0.0		466.0	0.00%
mdisspt	Training	0	0.0	0.00%	0.0		441.4	0.00%
m22exts1	Training	0	0.0	0.00%	0.0		233.0	0.00%
ta037	Training	22	0.1	0.00%	0.1		189.0	0.00%
ta038	Training	0	0.0		0.0		189.0	
ta046	Training	0	0.0		0.0		94.9	
ta047	Training	0	0.0	0.00%	0.0		94.9	
ta052	Training	0	0.0		0.0		1,518.3	
ta053	Training	0	0.0	0.00%	0.0		99.8	
ta067	Training	0	0.0		0.0		56.6	
ta068	Training	0	0.0		0.0			
ta069	Training	0	0.0	0.00%	0.0		56.6	
ta070	Training	614	801.7	0.01%	801.7	0.01%	1,810.7	0.01%
ta081	Training	72	3.5		3.5		60.9	
ta082	Training	24	0.3		0.3		60.6	
ta084	Training	1,975	7,393.2	0.06%	7,414.9		2,267.8	
ta085	Training	3	0.0		0.0		113.6	
ta086	Training	0	0.0	0.00%	0.0		56.7	0.00%
ta087	Training	0	0.0	0.00%	0.0		56.7	0.00%
ta088	Training	116	1.5		1.5		62.7	0.00%
ta089	Training	23	0.1	0.00%	0.1	0.00%	85.2	0.00%
ta099	Training	0	0.0	0.00%	0.0		16.0	0.00%
ta090	Training	90	76.1	0.00%	51.1	0.00%	80.0	0.00%
ta093	Training	124	1,134.4		3,132.7		434.8	
d191	Service	0	0.0	0.01%	0.0		12.6	
y01	Service	4	0.0		0.0		222.2	
yUI	Service	4	0.2	0.00%	0.2	0.00%	222.2	0.00%

Project	Project	Number	Charged	Charged	Used CUs	Utilisation	Allocated	Allocation
	Class	of Jobs	CUs	Utilisation			CUs	
y02	Service	575	7.7	0.00%	232.7	0.00%	1,438.1	0.01%
y07	Service	0	0.0	0.00%	0.0	0.00%	2,521.7	0.02%
y23	Service	20	32.9	0.00%	32.9	0.00%	164.9	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	2,521.7	0.02%
z02	Service	19	1.1	0.00%	1.1	0.00%	1,107.5	0.01%
z19	Service	5,105	59,545.5	0.46%	59,560.4	0.46%	126,430.9	0.98%
z99	Service	0	0.0	0.00%	0.0	0.00%	1.6	0.00%
DirectorsTime		17,950	121,644.7	0.94%	185,544.1	1.44%	295,571.1	2.29%
Total								
Total		452,366	7,891,779.6	61.09%	11,659,242.3	90.25%	10,059,379.4	77.87%

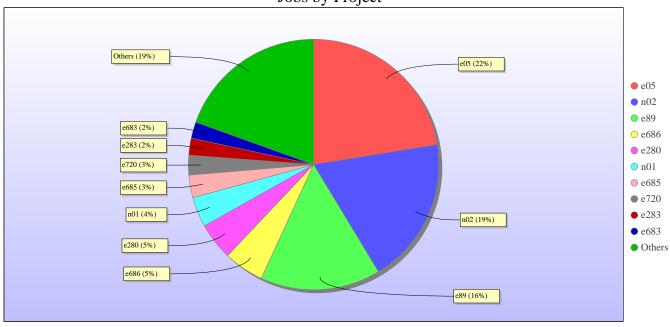
Use by Project







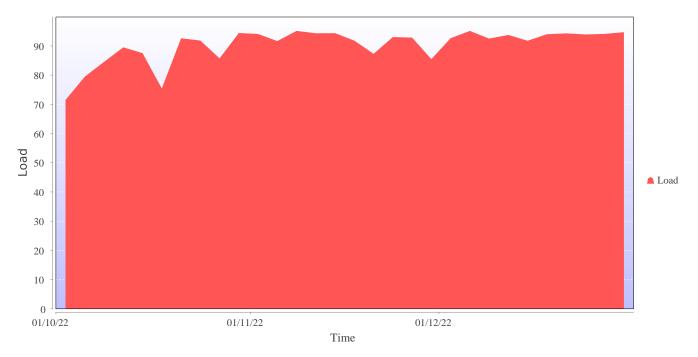
Jobs by Project



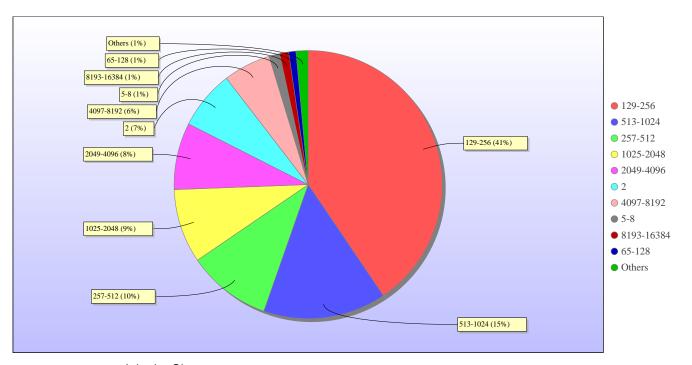
CUs (by Size)

Size	CUs	Number of Jobs
1	0	657
2	0	32,074
3-4	0	359
5-8	0	5,899
9-16	0	275
17-32	0	423
33-64	0	484
65-128	0	3,964
129-256	452,485.794	183,337
257-512	386,783.235	45,674
513-1024	824,496.142	67,120
1025-2048	997,291.984	40,434
2049-4096	1,259,249.454	36,518
4097-8192	1,253,241.943	25,888
8193-16384	1,099,053.638	4,854
16385-32768	1,076,950.682	3,430
32769-65536	281,357.176	514
65537-131072	155,223.078	211
131073-262144	91,002.985	223
262145-524288	13,074.773	10
524289-1048576	1,493.711	4

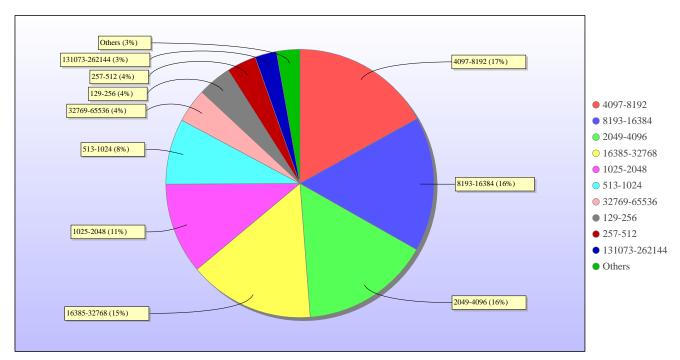
Load plots



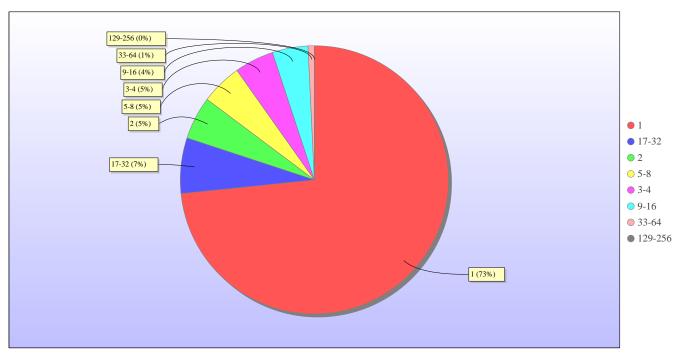
Percentage load on machine



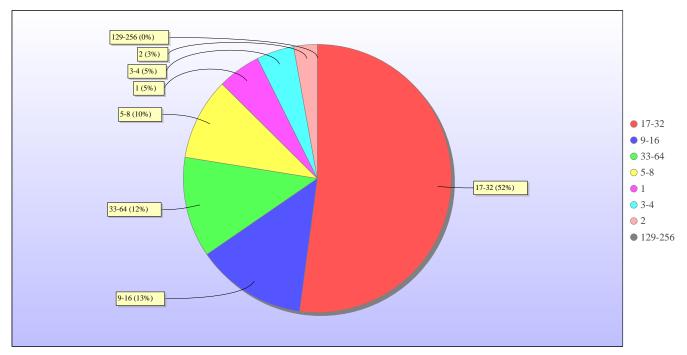
Jobs by Size



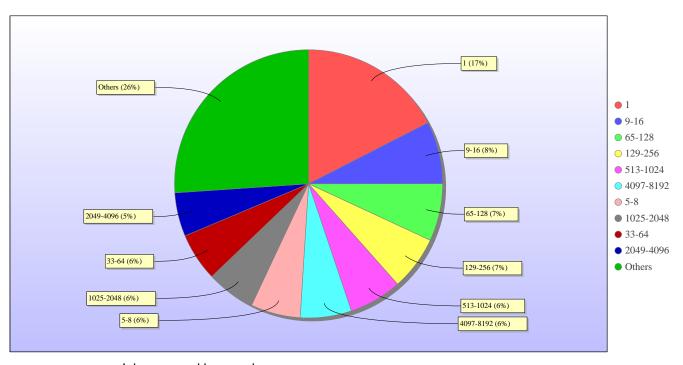
CUs used by Size



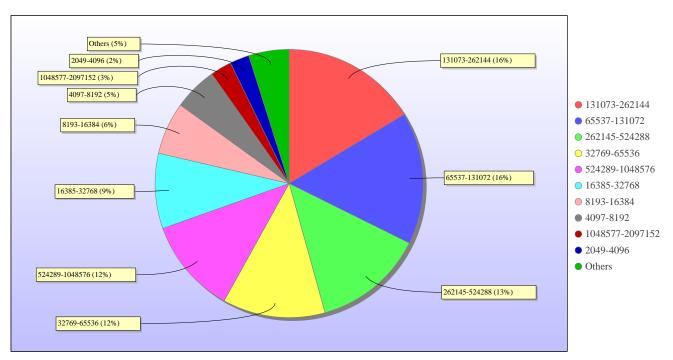
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

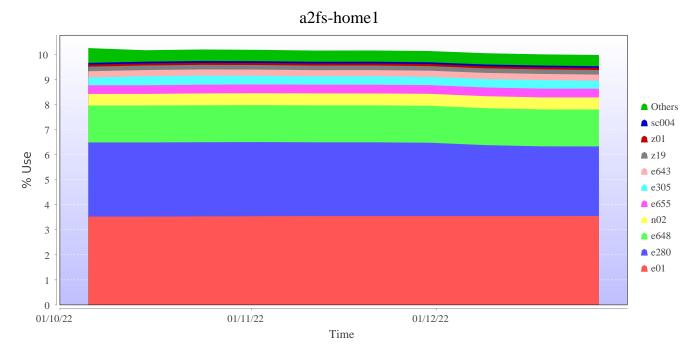


CUs used grouped by core-hours

Disk usage

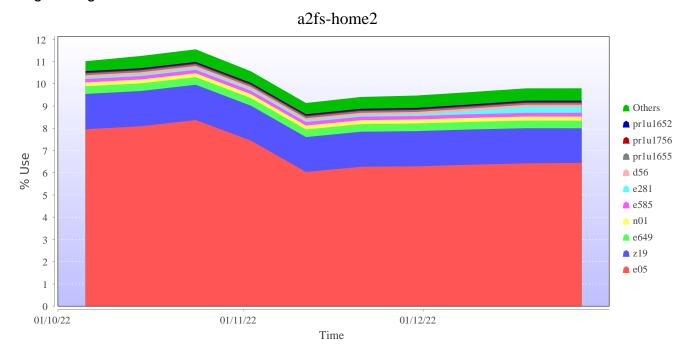
Disk usage for home (a2fs-home1)

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.



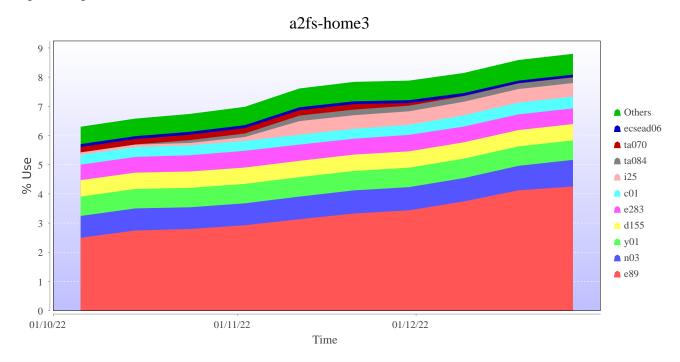
Disk usage for home (a2fs-home2)

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.



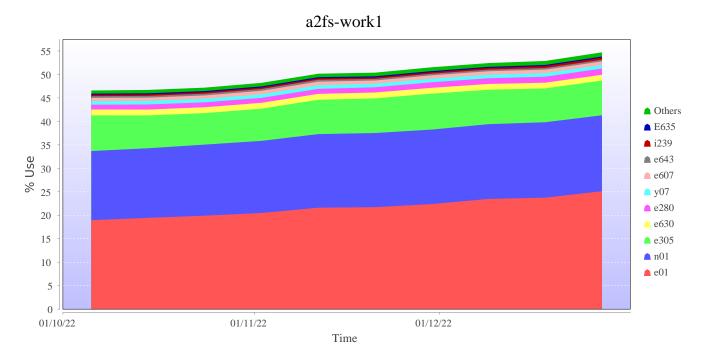
Disk usage for home (a2fs-home3)

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.



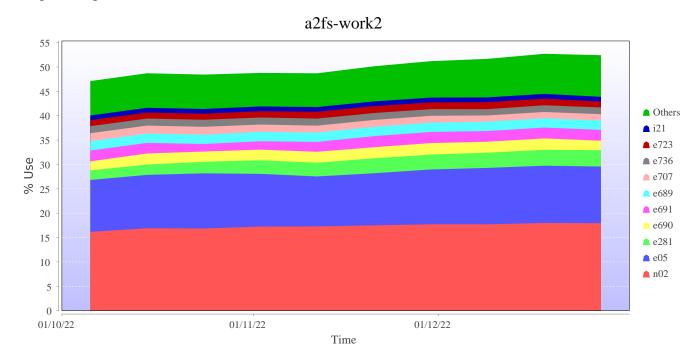
Disk usage for work (a2fs-work1)

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.



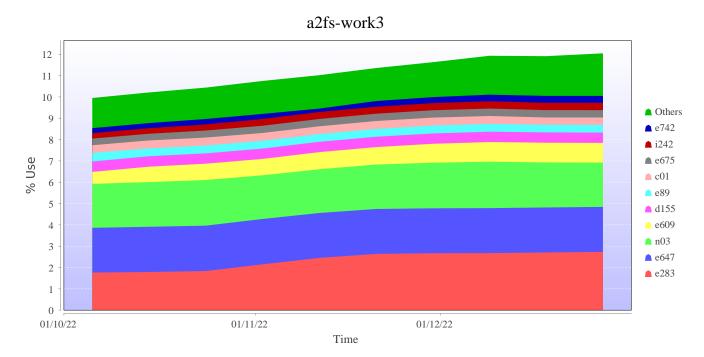
Disk usage for work (a2fs-work2)

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.



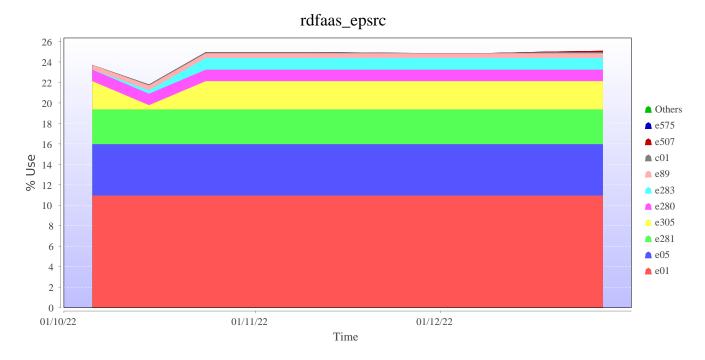
Disk usage for work (a2fs-work3)

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.

