

Quarterly Reporting

Report from 01 October 2018 to 31 December 2018

Report for Resource Pool XC on ARCHER

A total of 3,912,580.79 kAU 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.

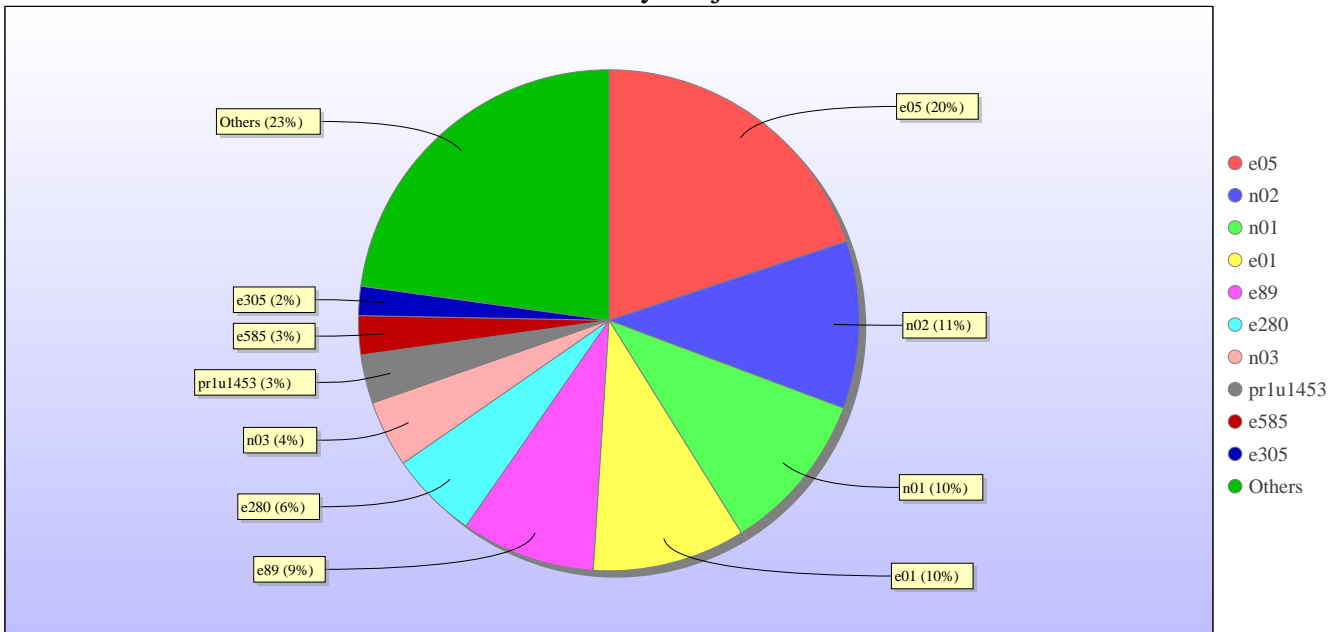
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e462	Leadership Awards	1,118	36,635.7	0.94%	36,635.7	0.94%	20,607.2	0.53%
e464	Leadership Awards	593	3,784.1	0.10%	3,784.1	0.10%	15,105.9	0.39%
e507	Leadership Awards	496	24,767.9	0.63%	24,979.9	0.64%	14,714.6	0.38%
e510	Leadership Awards	33	312.3	0.01%	312.3	0.01%	8,161.6	0.21%
e526	Leadership Awards	0	0.0	0.00%	0.0	0.00%	25,005.7	0.64%
e572	Leadership Awards	346	3,429.0	0.09%	3,429.0	0.09%	7,865.2	0.20%
c01	Class1a	2,075	4,708.3	0.12%	4,718.9	0.12%	18,817.8	0.48%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	292.8	0.01%
e341	Class1a	2	43.2	0.00%	43.2	0.00%	6,321.5	0.16%
e365	Class1a	8	758.0	0.02%	758.0	0.02%	7,059.1	0.18%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	25,600.9	0.65%
e432	Class1a	263	16,263.3	0.42%	16,263.3	0.42%	22,627.6	0.58%
e448	Class1a	16,236	38,731.9	0.99%	38,772.0	0.99%	99,667.5	2.55%
e480	Class1a	37	7,828.1	0.20%	7,828.1	0.20%	4,040.6	0.10%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	1,525.2	0.04%
e515	Class1a	123	1,285.3	0.03%	1,285.3	0.03%	5,001.1	0.13%
e516	Class1a	182	2,222.3	0.06%	2,222.3	0.06%	12,894.5	0.33%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	406.7	0.01%
e518	Class1a	0	0.0	0.00%	0.0	0.00%	4,045.8	0.10%
e519	Class1a	182	32,355.9	0.83%	32,356.2	0.83%	45,515.1	1.16%
e520	Class1a	32	8,269.9	0.21%	8,269.9	0.21%	5,387.1	0.14%
e523	Class1a	152	29,380.5	0.75%	29,937.8	0.77%	25,005.7	0.64%
e527	Class1a	71	4,665.4	0.12%	4,665.4	0.12%	5,501.2	0.14%
e530	Class1a	105	6,744.6	0.17%	6,744.6	0.17%	3,373.2	0.09%
e537	Class1a	810	26,155.6	0.67%	26,205.9	0.67%	11,359.0	0.29%
e558	Class1a	10	0.0	0.00%	1.8	0.00%	2,269.5	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	5,903.5	0.15%
e571	Class1a	71	534.2	0.01%	534.2	0.01%	526.6	0.01%
e575	Class1a	112	4,640.2	0.12%	4,640.2	0.12%	7,117.6	0.18%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	7,330.5	0.19%
e584	Class1a	89	435.3	0.01%	435.3	0.01%	4,134.3	0.11%
e588	Class1a	68	2,379.3	0.06%	2,379.3	0.06%	4,343.5	0.11%
e605	Class1a	189	7,311.9	0.19%	7,540.5	0.19%	4,022.8	0.10%
e606	Class1a	625	20,814.6	0.53%	20,814.6	0.53%	11,420.7	0.29%
e607	Class1a	0	0.0	0.00%	0.0	0.00%	15,171.7	0.39%
e608	Class1a	8	435.0	0.01%	518.6	0.01%	4,259.2	0.11%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e609	Class1a	51	2.5	0.00%	2.5	0.00%	27,814.8	0.71%
e613	Class1a	0	0.0	0.00%	0.0	0.00%	494.6	0.01%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	500.1	0.01%
e01	Consortia	4,572	298,136.1	7.62%	331,722.5	8.48%	253,959.5	6.49%
e05	Consortia	23,563	614,404.8	15.70%	668,515.0	17.09%	595,579.9	15.22%
e89	Consortia	8,687	252,091.8	6.44%	291,233.1	7.44%	359,963.8	9.20%
e280	Consortia	10,256	190,102.5	4.86%	190,505.9	4.87%	150,232.9	3.84%
e281	Consortia	1,251	57,032.2	1.46%	57,323.9	1.47%	67,989.8	1.74%
e283	Consortia	2,075	38,830.5	0.99%	38,884.6	0.99%	41,157.5	1.05%
e305	Consortia	2,126	62,385.5	1.59%	63,237.5	1.62%	72,459.2	1.85%
e585	Consortia	2,569	82,559.4	2.11%	84,432.0	2.16%	75,858.5	1.94%
e348	Direct Access: ARCHER RAP	769	12,168.1	0.31%	12,168.1	0.31%	15,825.3	0.40%
e545	Direct Access: ARCHER RAP	3	44.8	0.00%	44.8	0.00%	232.3	0.01%
e564	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	8,794.4	0.22%
e565	Direct Access: ARCHER RAP	1,010	16,929.9	0.43%	16,929.9	0.43%	8,988.2	0.23%
e566	Direct Access: ARCHER RAP	84	5,153.7	0.13%	5,154.1	0.13%	13,529.0	0.35%
e567	Direct Access: ARCHER RAP	314	25,247.7	0.65%	25,248.1	0.65%	10,089.5	0.26%
e590	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,279.2	0.08%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	22,500.0	0.58%
e595	Direct Access: ARCHER RAP	56	7,747.4	0.20%	8,856.0	0.23%	10,026.1	0.26%
e596	Direct Access: ARCHER RAP	41	4,257.6	0.11%	4,257.6	0.11%	3,696.0	0.09%
e597	Direct Access: ARCHER RAP	36	52,389.0	1.34%	52,389.0	1.34%	28,724.7	0.73%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	12,641.5	0.32%
e601	Direct Access: ARCHER RAP	196	4,667.0	0.12%	3,975.8	0.10%	13,863.1	0.35%
e602	Direct Access: ARCHER RAP	171	1,912.2	0.05%	1,912.2	0.05%	5,577.5	0.14%
e603	Direct Access: ARCHER RAP	48	6,285.8	0.16%	6,471.7	0.17%	9,296.0	0.24%
e614	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,473.1	0.06%
e616	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	644.6	0.02%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	984.7	0.03%
e582	Instant Access	97	753.0	0.02%	753.0	0.02%	601.6	0.02%
e586	Instant Access	0	0.0	0.00%	0.0	0.00%	13.1	0.00%
e587	Instant Access	0	0.0	0.00%	0.0	0.00%	202.4	0.01%
e591	Instant Access	0	0.0	0.00%	0.0	0.00%	339.3	0.01%
e592	Instant Access	50	10.6	0.00%	10.6	0.00%	429.7	0.01%
e594	Instant Access	0	0.0	0.00%	0.0	0.00%	916.3	0.02%
e598	Instant Access	0	0.0	0.00%	0.0	0.00%	600.1	0.02%
e600	Instant Access	0	0.0	0.00%	0.0	0.00%	600.1	0.02%
e556	Training	27	25.4	0.00%	950.2	0.02%	7,710.4	0.20%
e573	Training	228	918.6	0.02%	918.6	0.02%	5,693.8	0.15%
e589	Training	328	2,997.1	0.08%	2,997.3	0.08%	9,053.3	0.23%
e604	Training	1,046	10,021.7	0.26%	10,185.8	0.26%	5,669.4	0.14%
y16	Service	27	60.9	0.00%	61.1	0.00%	420.3	0.01%
z17	Service	130	12,064.1	0.31%	12,064.1	0.31%	10,002.3	0.26%
EPSRC Total		83,847	2,044,091.6	52.24%	2,177,281.6	55.65%	2,321,830.9	59.34%
n01	Consortia	20,306	352,402.2	9.01%	350,543.0	8.96%	324,037.1	8.28%
n02	Consortia	67,558	363,697.7	9.30%	363,429.6	9.29%	509,381.3	13.02%

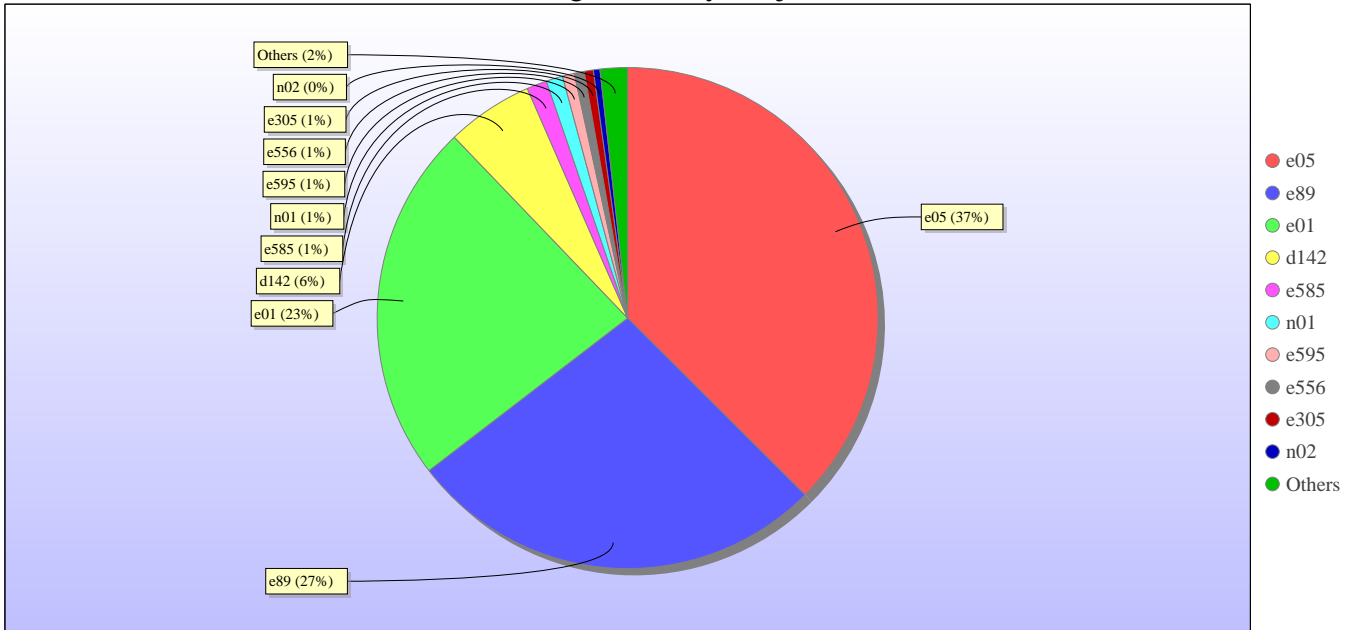
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
n03	Consortia	5,682	144,447.6	3.69%	144,608.6	3.70%	267,299.1	6.83%
NERC Total		93,546	860,547.6	21.99%	858,581.1	21.94%	1,100,717.5	28.13%
e568	Research	732	14,010.3	0.36%	14,010.3	0.36%	11,927.3	0.30%
BBSRC Total		732	14,010.3	0.36%	14,010.3	0.36%	11,927.3	0.30%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	302.6	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1.3	0.00%
pr1u1453	DECI: EXEC	564	105,773.2	2.70%	105,773.2	2.70%	25,406.7	0.65%
pr1u1455	DECI: EXEC	127	4,618.8	0.12%	4,618.8	0.12%	2,890.0	0.07%
pr1utd01	DECI: EXEC	45	569.5	0.01%	569.5	0.01%	136.9	0.00%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	182.7	0.00%
pr1u1364	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
pr1u1406	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
PRACE Total		736	110,961.5	2.84%	110,961.5	2.84%	28,920.2	0.74%
ecse1001	Consortia	115	574.1	0.01%	574.1	0.01%	1,250.2	0.03%
ecse0910	eCSE	1	0.0	0.00%	0.0	0.00%	151.6	0.00%
ecse0919	eCSE	0	0.0	0.00%	0.0	0.00%	35.3	0.00%
ecse1008	eCSE	0	0.0	0.00%	0.0	0.00%	361.7	0.01%
ecse1012	eCSE	11	0.0	0.00%	0.0	0.00%	180.4	0.00%
ecse1109	eCSE	3	0.0	0.00%	0.0	0.00%	120.6	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	42.8	0.00%
ecse1208	eCSE	179	78.4	0.00%	78.4	0.00%	134.0	0.00%
ecse1209	eCSE	99	193.4	0.00%	193.4	0.00%	262.0	0.01%
ecse1210	eCSE	81	9,699.4	0.25%	9,699.4	0.25%	1,437.3	0.04%
ecse1217	eCSE	0	0.0	0.00%	0.0	0.00%	34.0	0.00%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	76.5	0.00%
eCSE Total		489	10,545.3	0.27%	10,545.3	0.27%	4,086.3	0.10%
d43	ECDF	17	1,019.5	0.03%	1,019.5	0.03%	7,565.1	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	1,260.8	0.03%
d35	Research	0	0.0	0.00%	0.0	0.00%	1,260.8	0.03%
d56	Research	2,355	17,797.0	0.45%	17,797.0	0.45%	20,004.5	0.51%
d60	Research	0	0.0	0.00%	0.0	0.00%	252.2	0.01%
d67	Research	10	748.5	0.02%	748.5	0.02%	882.6	0.02%
d71	Research	19	7,941.1	0.20%	7,941.1	0.20%	3,278.2	0.08%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.2	0.00%
d88	Research	28	5.3	0.00%	5.3	0.00%	13.4	0.00%
d100	Research	0	0.0	0.00%	0.0	0.00%	1,407.4	0.04%
d101	Research	0	0.0	0.00%	0.0	0.00%	1,639.1	0.04%
d107	Research	41	18.4	0.00%	18.4	0.00%	1,260.8	0.03%
d114	Research	1,799	24,952.9	0.64%	24,954.2	0.64%	28,061.4	0.72%
d118	Research	0	0.0	0.00%	0.0	0.00%	313.0	0.01%
d137	Research	521	5,533.8	0.14%	5,533.8	0.14%	7,565.1	0.19%
d142	Research	227	31,600.2	0.81%	39,692.5	1.01%	12,608.4	0.32%
d143	Research	106	2,304.0	0.06%	2,304.0	0.06%	7,585.9	0.19%
d145	Research	18	494.1	0.01%	494.1	0.01%	756.5	0.02%
d149	Research	0	0.0	0.00%	0.0	0.00%	1,250.6	0.03%
d150	Research	427	31,473.9	0.80%	31,473.9	0.80%	24,005.4	0.61%
d155	Research	1,766	7,429.1	0.19%	7,429.1	0.19%	10,591.1	0.27%
d166	Research	133	2,961.5	0.08%	2,961.5	0.08%	6,027.7	0.15%
d421	Research	74	14,129.9	0.36%	14,129.9	0.36%	1,644.5	0.04%
d426	Research	0	0.0	0.00%	0.0	0.00%	252.2	0.01%
d153	Industrial	518	795.0	0.02%	796.2	0.02%	1,666.7	0.04%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	254.1	0.01%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	91.8	0.00%
d168	Industrial	1	0.1	0.00%	0.1	0.00%	172.6	0.00%
i18	Industrial	56	3,247.6	0.08%	3,247.6	0.08%	8,707.4	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	201.4	0.01%
i21	Industrial	1,514	11,669.7	0.30%	11,348.3	0.29%	30,000.0	0.77%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	126.1	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	126.1	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	252.2	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	207.8	0.01%
i232	Industrial	111	2,671.8	0.07%	2,671.8	0.07%	4,000.0	0.10%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	3,026.0	0.08%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
d74	Training	0	0.0	0.00%	0.0	0.00%	504.3	0.01%
d133	Training	0	0.0	0.00%	0.0	0.00%	124.9	0.00%
d167	Training	0	0.0	0.00%	0.0	0.00%	504.3	0.01%
d131	Service	126	239.5	0.01%	239.5	0.01%	756.5	0.02%
d134	Service	0	0.0	0.00%	0.0	0.00%	126.1	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	5.8	0.00%
w16	Service	187	1,949.0	0.05%	1,949.0	0.05%	734.2	0.02%
y01	Service	4	0.0	0.00%	0.0	0.00%	60.1	0.00%
y02	Service	11	0.1	0.00%	0.1	0.00%	252.2	0.01%
y07	Service	122	0.2	0.00%	4.6	0.00%	25.2	0.00%
z02	Service	33	0.2	0.00%	0.2	0.00%	126.1	0.00%
z99	Service	73	0.8	0.00%	0.8	0.00%	25.2	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	986.3	0.03%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	252.2	0.01%
DirectorsTime Total		10,297	168,983.3	4.32%	176,761.1	4.52%	192,802.6	4.93%
y14	Training	737	604.8	0.02%	403.4	0.01%	1,765.2	0.05%
y21	Service	25	19.5	0.00%	19.5	0.00%	1,260.8	0.03%
z19	Service	796	12,184.6	0.31%	12,274.3	0.31%	17,651.8	0.45%
CSE Total		1,558	12,808.9	0.33%	12,697.2	0.32%	20,677.9	0.53%
Total		191,205	3,221,948.4	82.35%	3,360,838.1	85.90%	3,680,962.6	94.08%

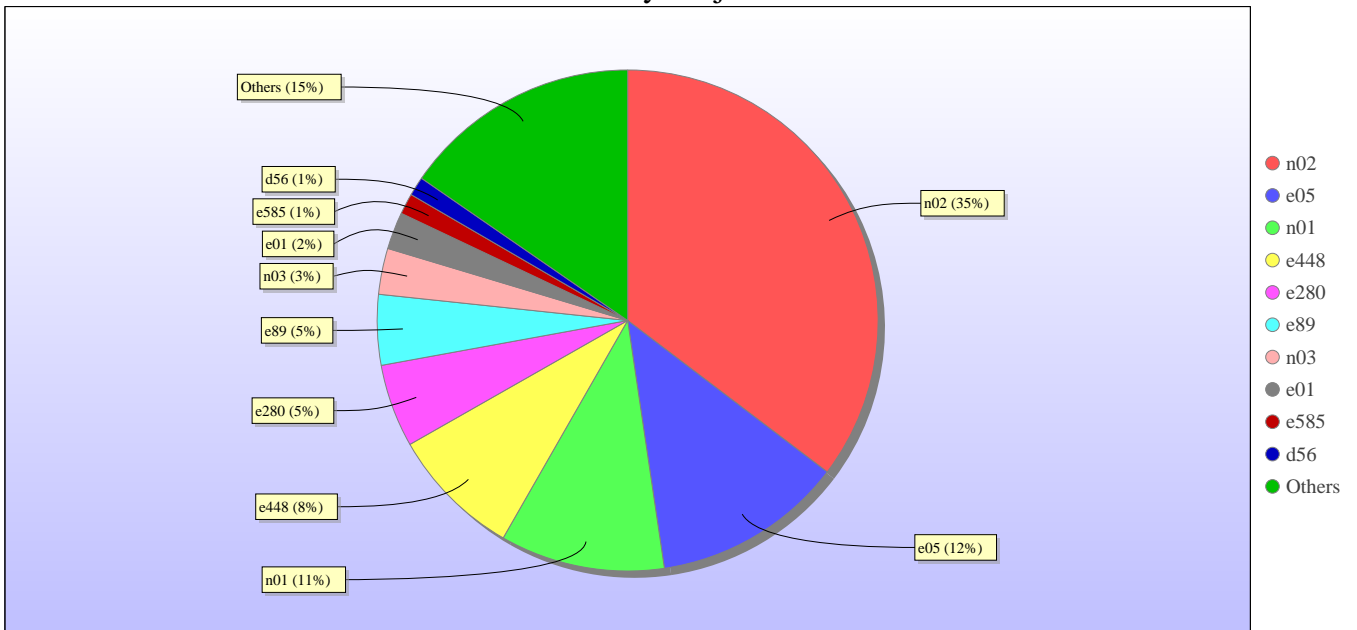
Use by Project



Uncharged Use by Project



Jobs by Project

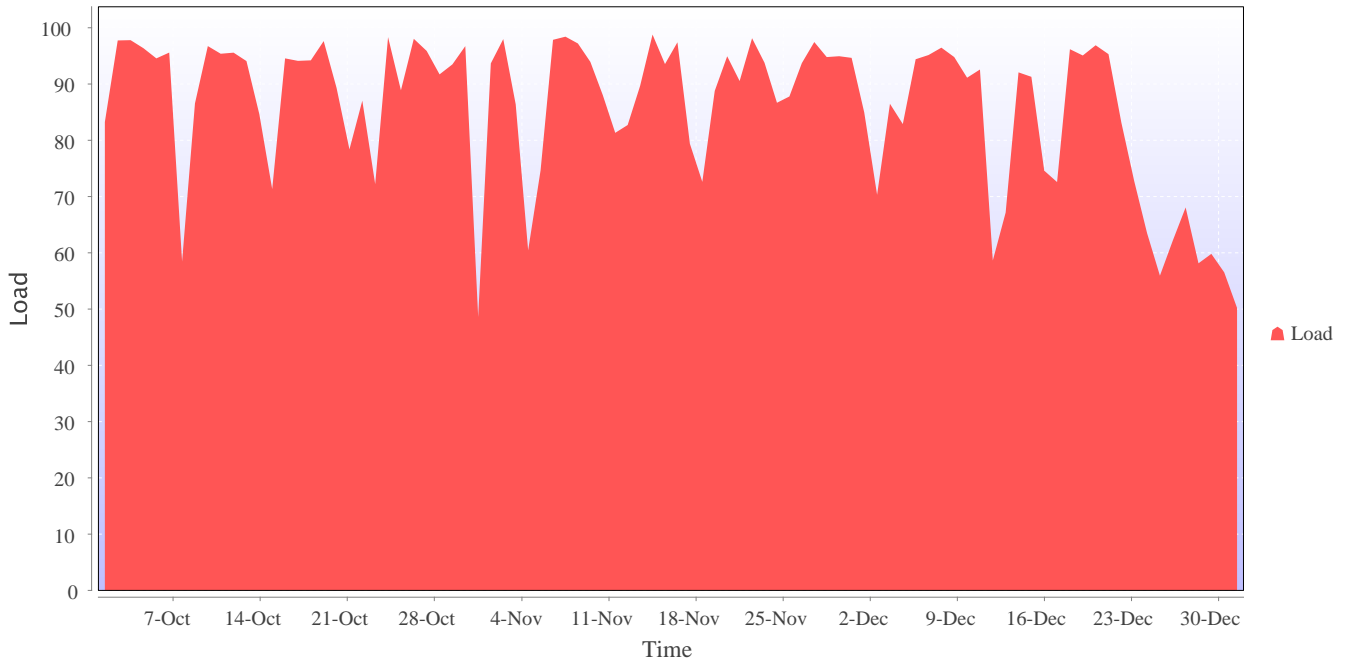


kAUs (by Size)

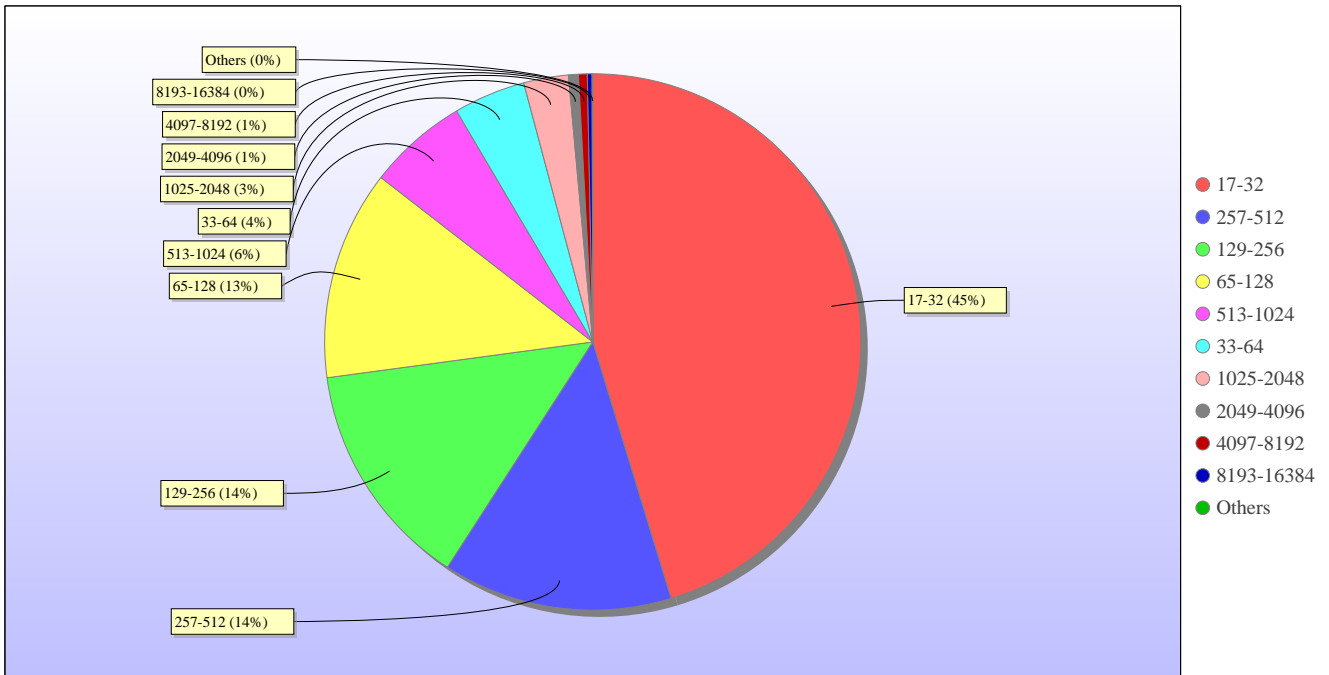
Size	kAUs	Number of Jobs
17-32	27,640.623	86,574
33-64	35,516.689	8,281
65-128	151,726.503	24,161
129-256	383,593.503	26,277
257-512	563,324.022	26,451
513-1024	626,224.383	11,499
1025-2048	481,520.23	5,160
2049-4096	209,383.009	1,142
4097-8192	373,403.362	1,005
8193-16384	252,249.982	544
16385-32768	58,666.851	61

Size	kAUs	Number of Jobs
32769-65536	41,804.608	17
65537-131072	354.47	2

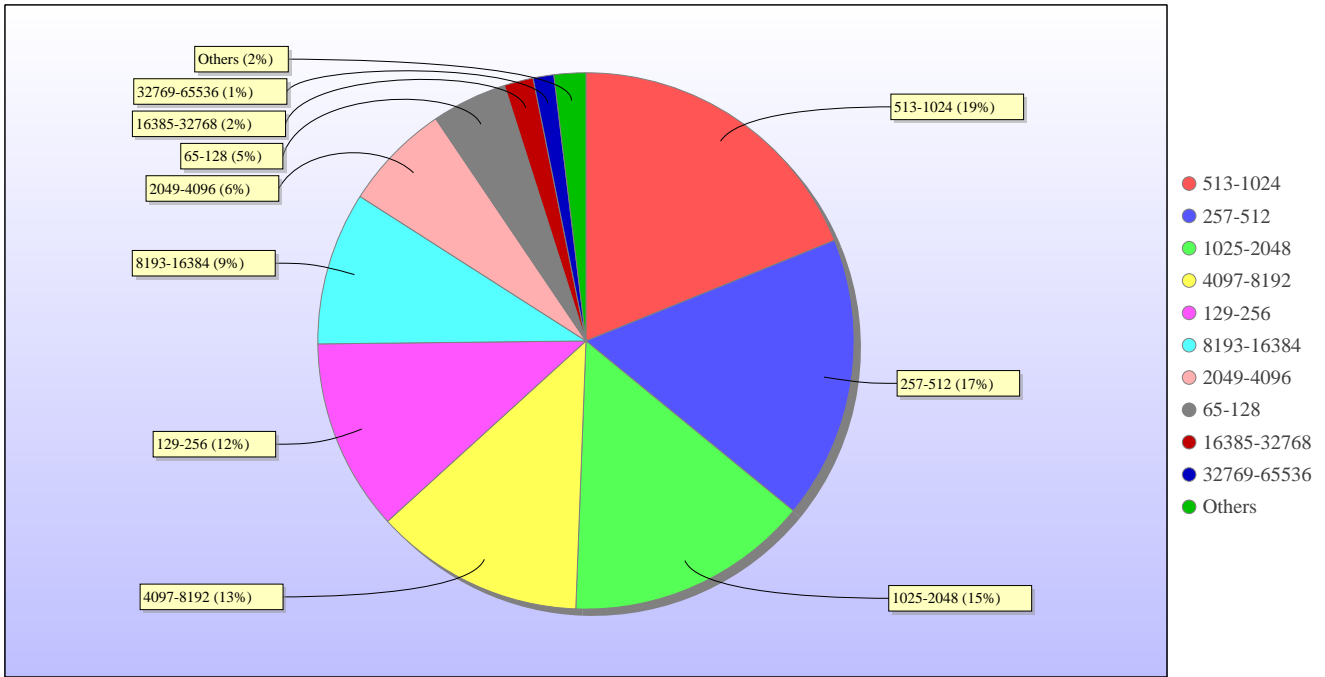
Load plots



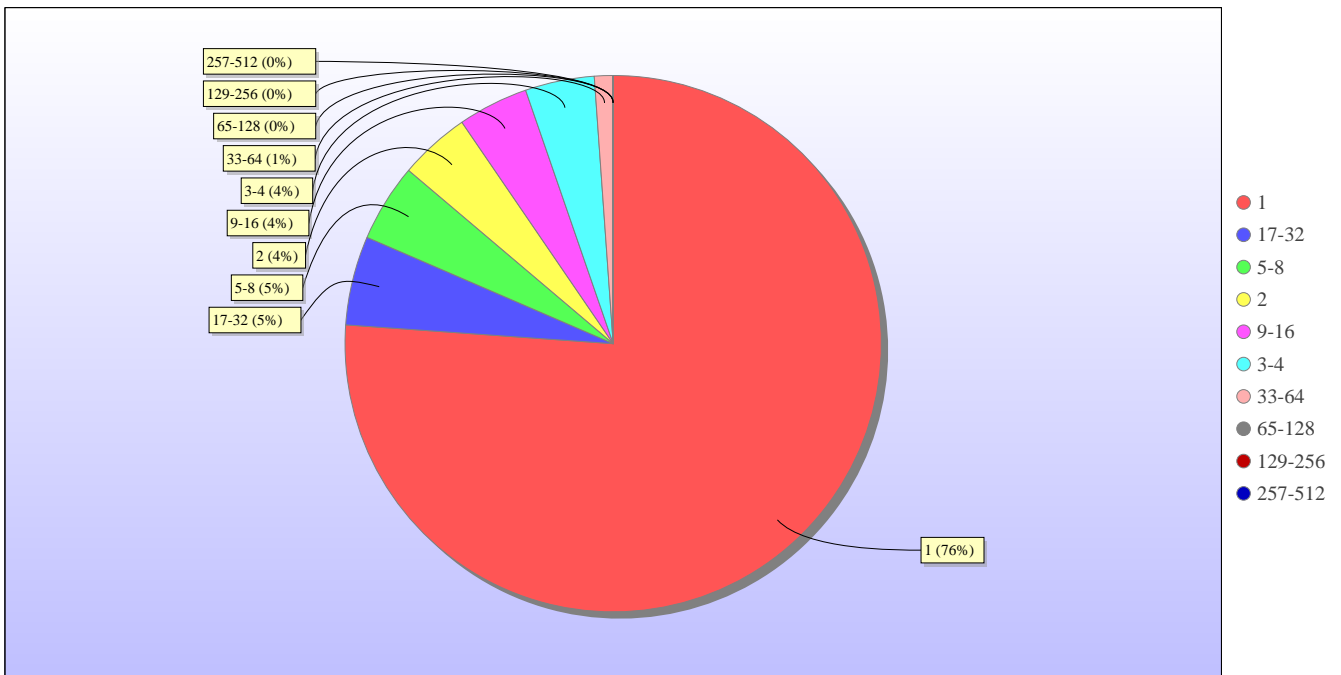
Percentage load on machine



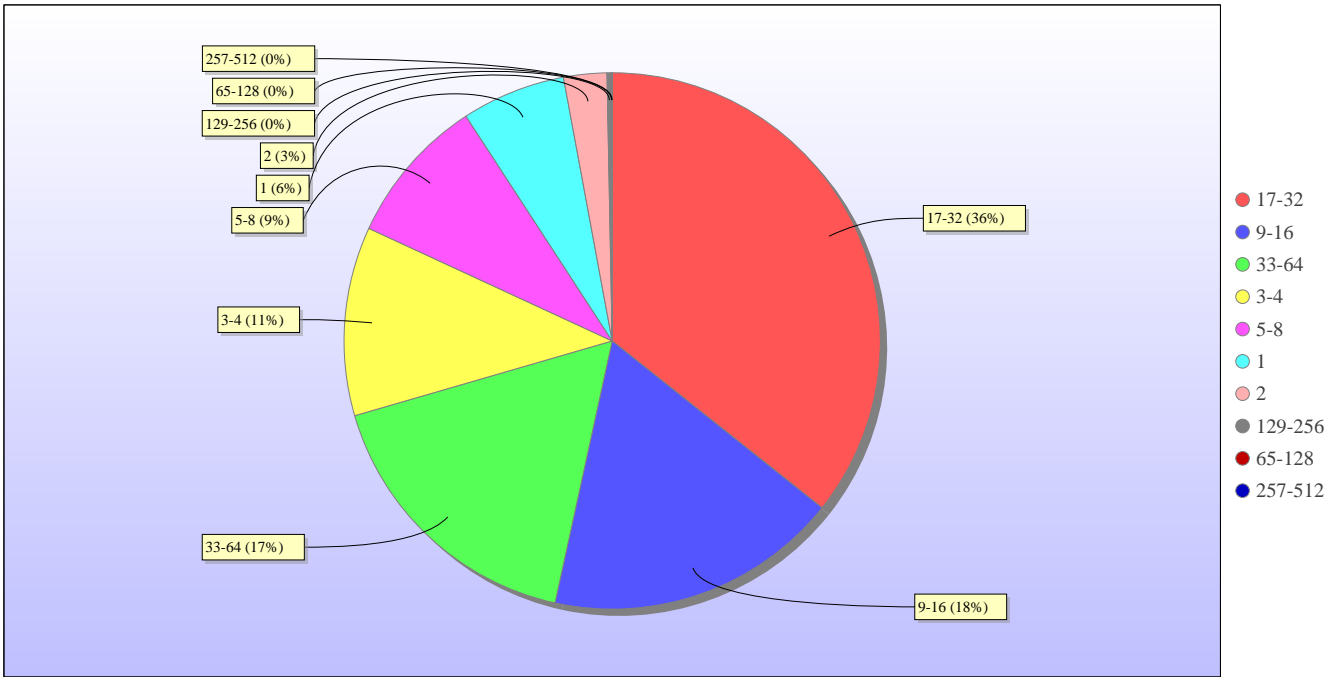
Jobs by Size



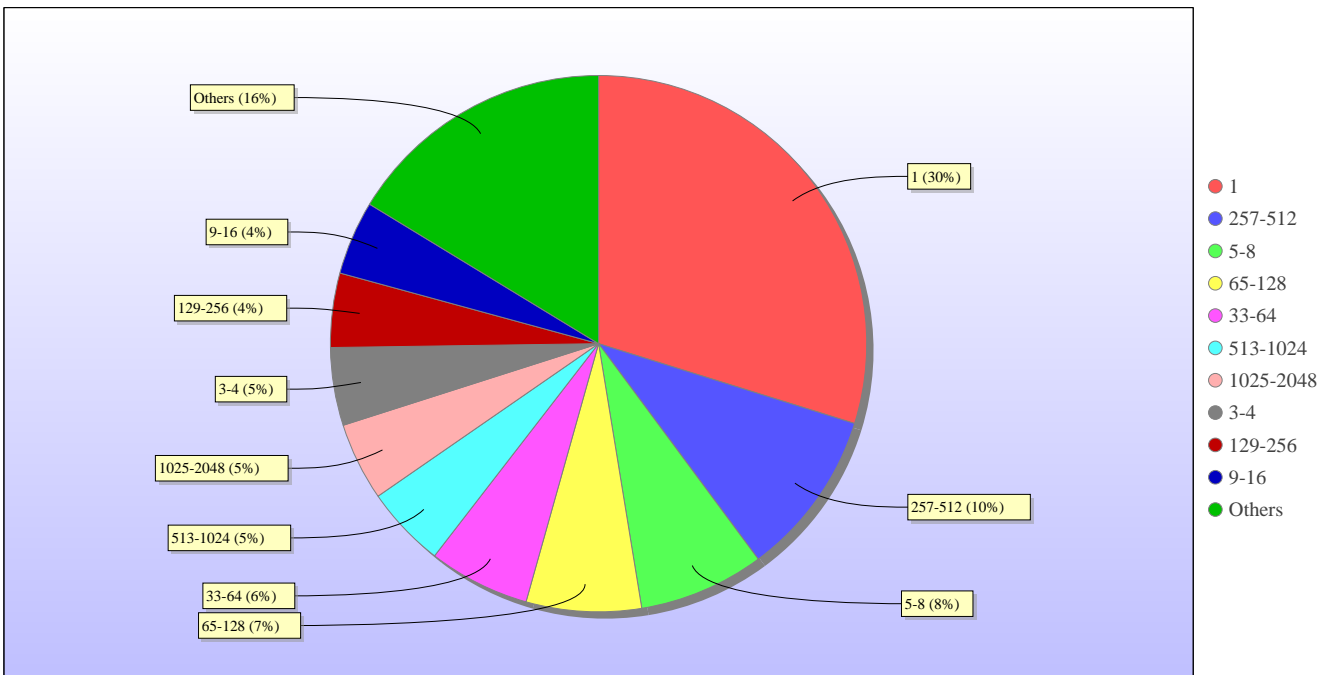
kAUs used by Size



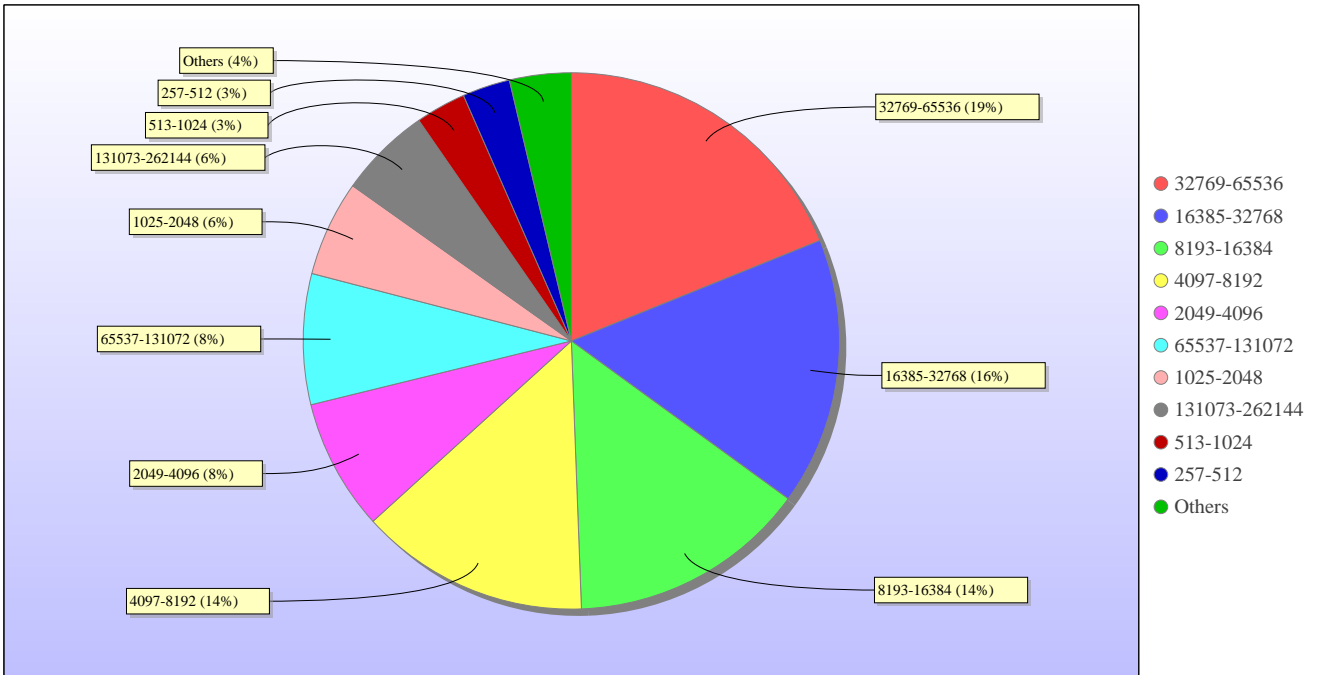
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

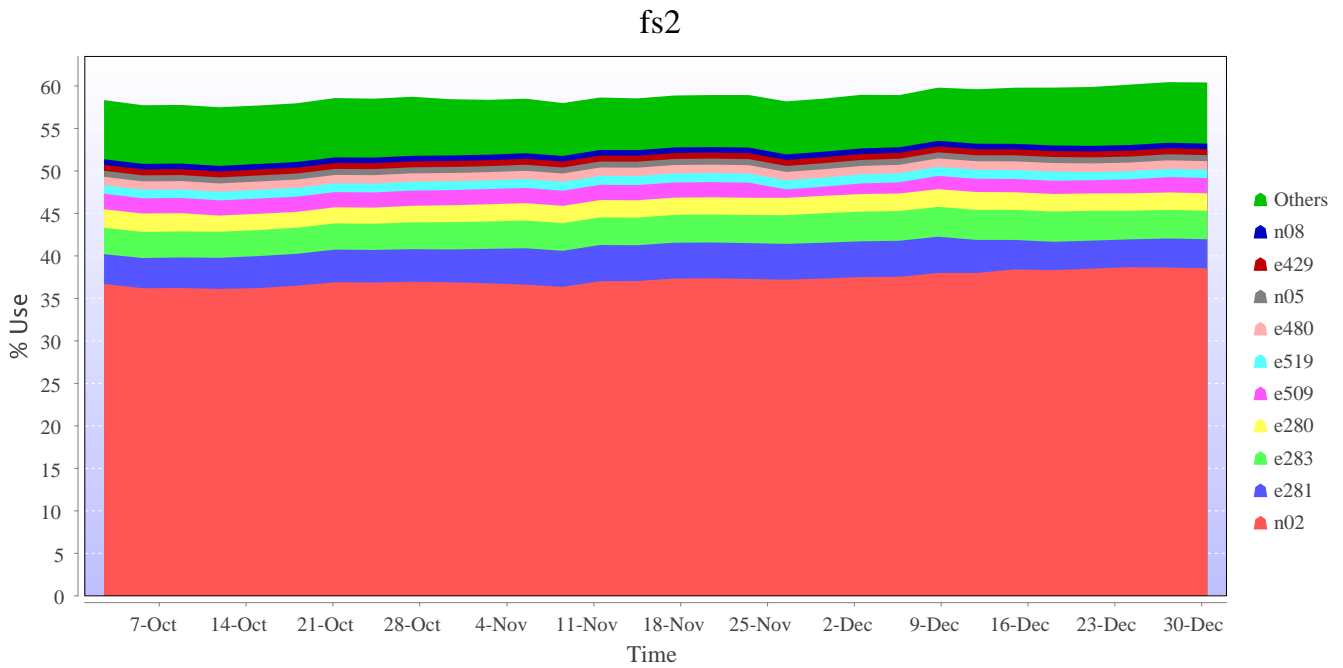


kAUs used grouped by core-hours

Disk usage

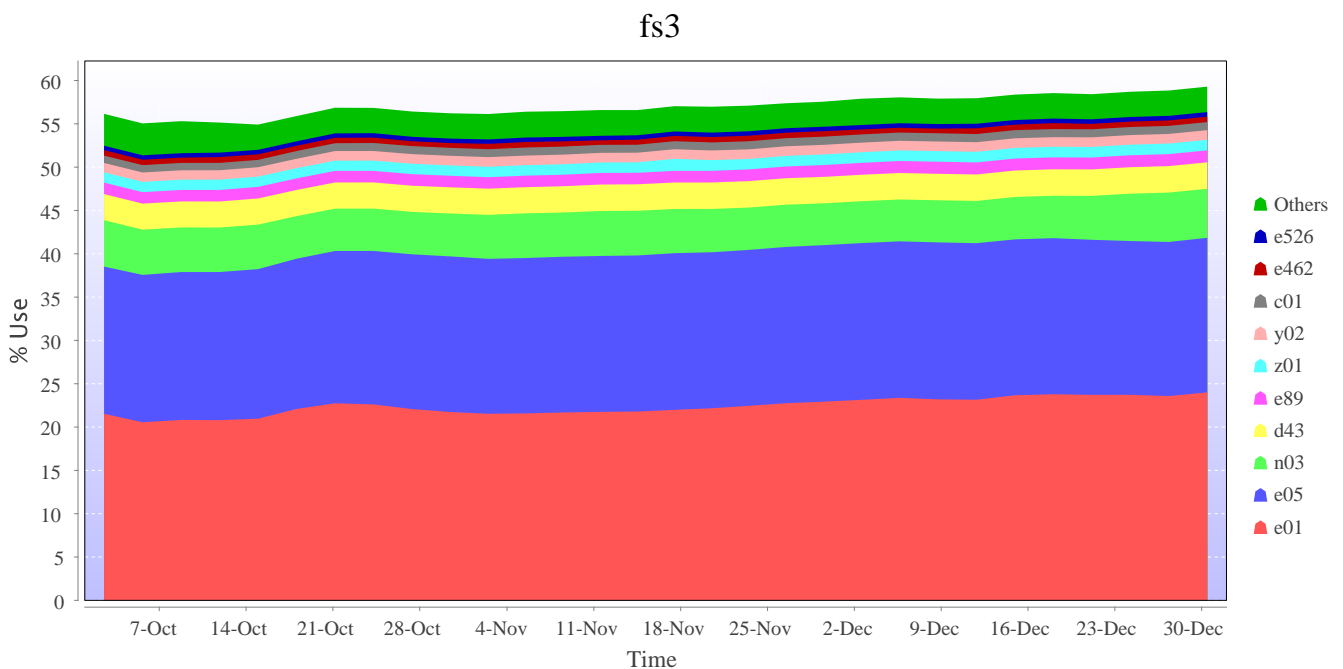
Disk usage for work (fs2)

This is a plot of Disk Use on fs2 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.



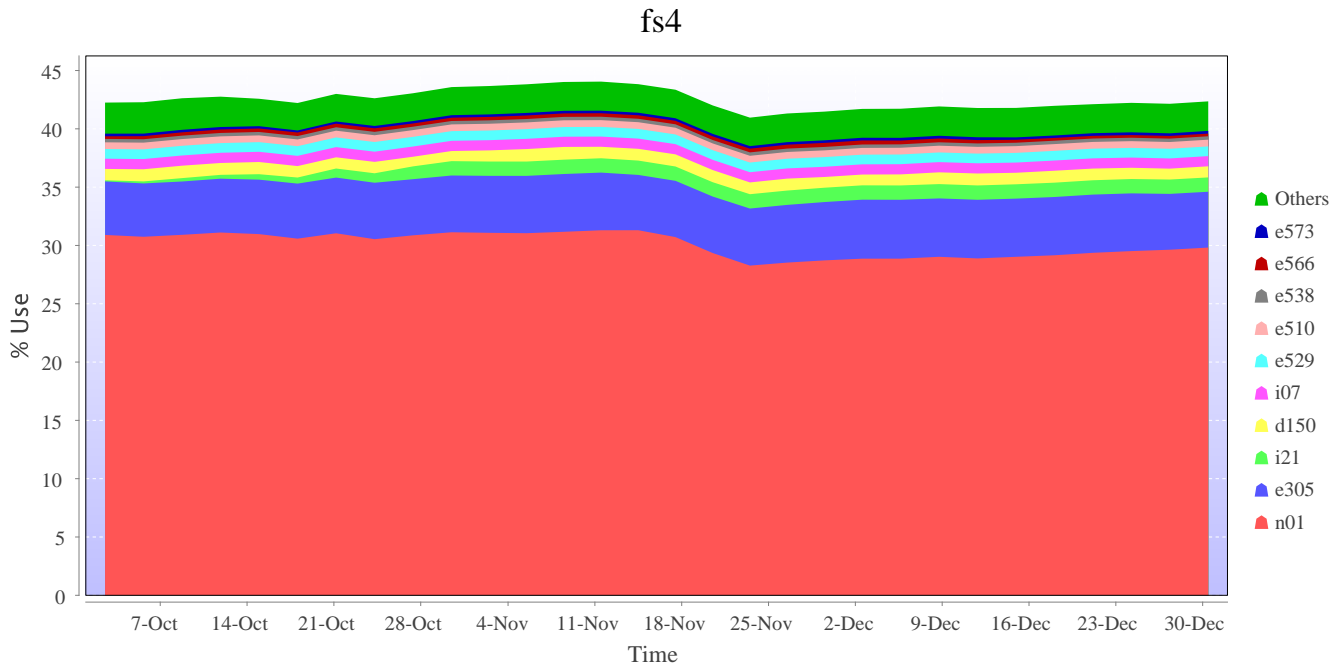
Disk usage for work (fs3)

This is a plot of Disk Use on fs3 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.



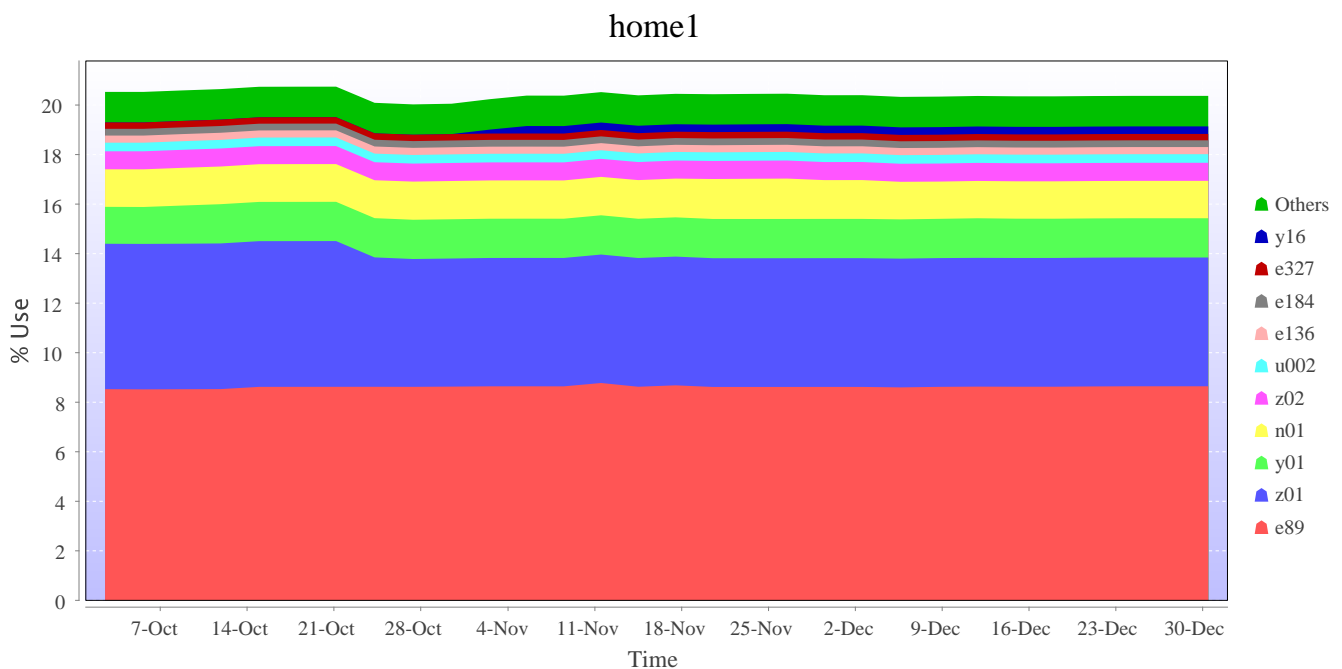
Disk usage for work (fs4)

This is a plot of Disk Use on fs4 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.



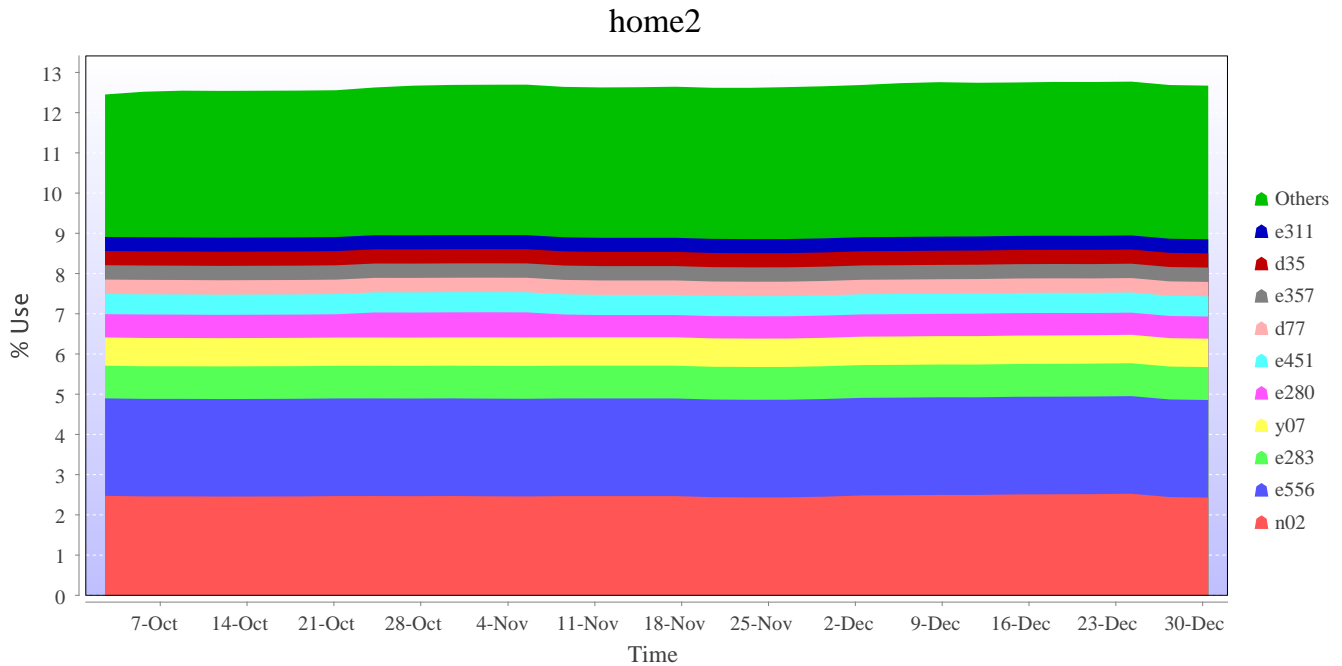
Disk usage for home (home1)

This is a plot of Disk Use on 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.



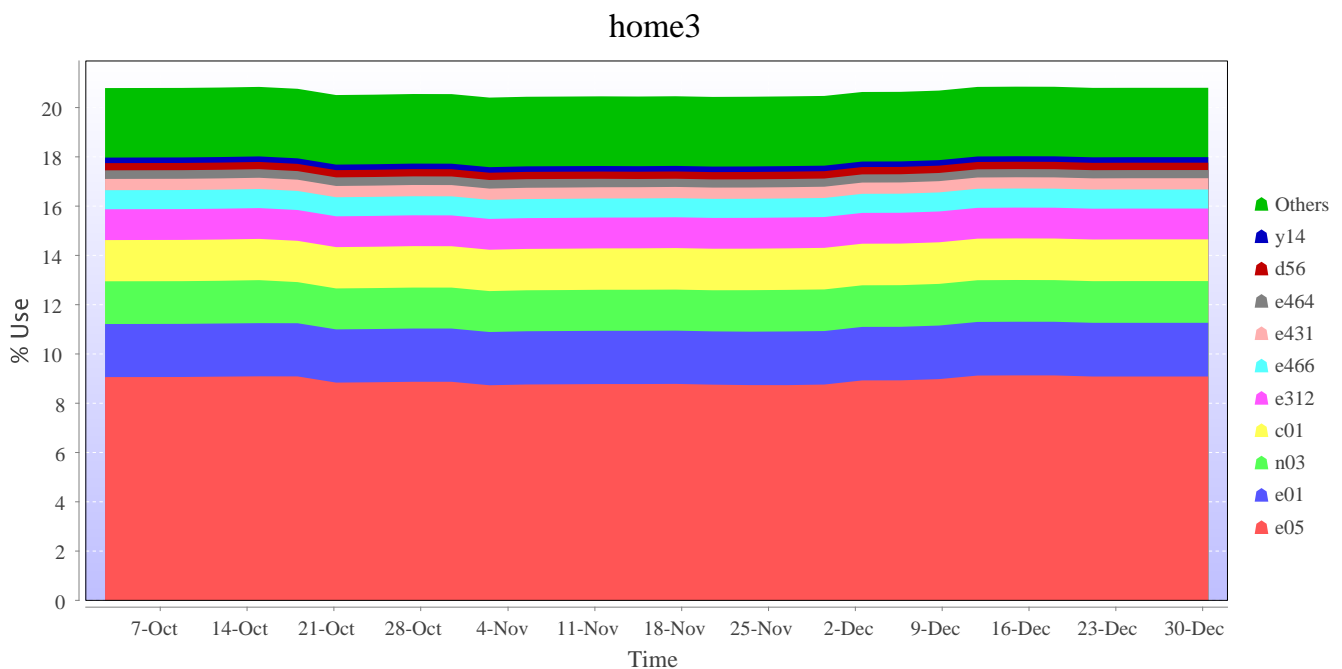
Disk usage for home (home2)

This is a plot of Disk Use on 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 (home3)

This is a plot of Disk Use on 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 home (home4)

This is a plot of Disk Use on home4 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.

