

Monthly Reporting

Report from 01 December 2018 to 31 December 2018

Report for Resource Pool XC on ARCHER

A total of 1,317,772.797 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.

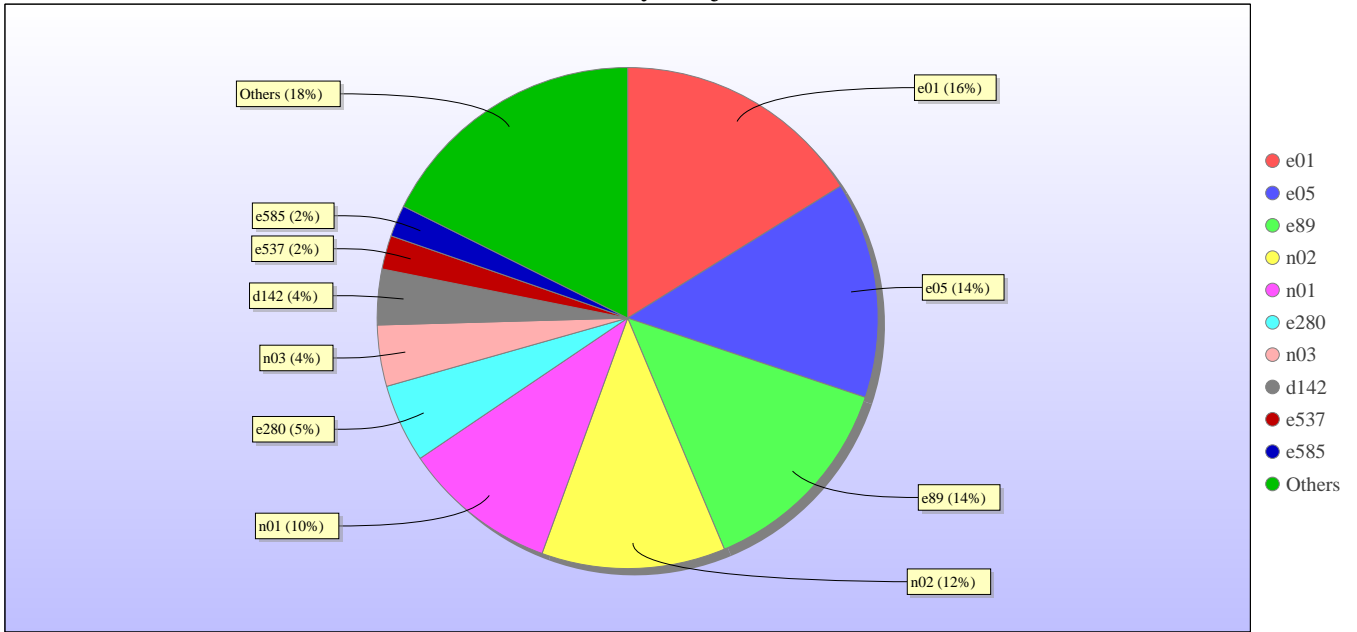
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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	417	16,676.5	1.27%	16,676.5	1.27%	6,940.6	0.53%
e464	Leadership Awards	593	3,784.1	0.29%	3,784.1	0.29%	5,087.7	0.39%
e526	Leadership Awards	0	0.0	0.00%	0.0	0.00%	8,422.0	0.64%
e572	Leadership Awards	198	2,991.3	0.23%	2,991.3	0.23%	2,862.9	0.22%
c01	Class1a	228	918.3	0.07%	918.3	0.07%	6,337.9	0.48%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	2,129.1	0.16%
e365	Class1a	0	0.0	0.00%	0.0	0.00%	2,377.5	0.18%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e432	Class1a	151	7,116.3	0.54%	7,116.3	0.54%	6,521.8	0.49%
e448	Class1a	5,062	10,481.6	0.80%	10,481.6	0.80%	33,568.4	2.55%
e480	Class1a	34	7,828.1	0.59%	7,828.1	0.59%	1,360.9	0.10%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	513.7	0.04%
e515	Class1a	0	0.0	0.00%	0.0	0.00%	1,684.4	0.13%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	137.0	0.01%
e518	Class1a	0	0.0	0.00%	0.0	0.00%	1,362.6	0.10%
e519	Class1a	13	2,411.6	0.18%	2,411.6	0.18%	15,329.7	1.16%
e520	Class1a	25	7,880.1	0.60%	7,880.1	0.60%	1,814.4	0.14%
e523	Class1a	103	3,241.2	0.25%	3,798.4	0.29%	8,422.0	0.64%
e527	Class1a	48	2,086.3	0.16%	2,086.3	0.16%	1,852.8	0.14%
e530	Class1a	12	790.5	0.06%	790.5	0.06%	1,136.1	0.09%
e537	Class1a	142	22,855.2	1.73%	22,855.2	1.73%	3,863.1	0.29%
e558	Class1a	0	0.0	0.00%	0.0	0.00%	764.4	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	1,988.3	0.15%
e571	Class1a	36	455.1	0.03%	455.1	0.03%	193.1	0.01%
e575	Class1a	112	4,640.2	0.35%	4,640.2	0.35%	2,397.2	0.18%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	2,469.0	0.19%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	1,392.5	0.11%
e588	Class1a	17	1,626.7	0.12%	1,626.7	0.12%	1,351.2	0.10%
e605	Class1a	52	1,669.0	0.13%	1,897.6	0.14%	1,354.9	0.10%
e606	Class1a	175	3,935.2	0.30%	3,935.2	0.30%	3,846.5	0.29%
e607	Class1a	0	0.0	0.00%	0.0	0.00%	5,109.9	0.39%
e608	Class1a	8	435.0	0.03%	518.6	0.04%	4,259.2	0.32%
e609	Class1a	21	0.0	0.00%	0.0	0.00%	9,368.1	0.71%
e613	Class1a	0	0.0	0.00%	0.0	0.00%	494.6	0.04%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	168.4	0.01%
e01	Consortia	1,758	143,147.7	10.86%	169,354.6	12.85%	85,534.6	6.49%
e05	Consortia	5,912	124,835.8	9.47%	146,172.5	11.09%	185,958.0	14.11%
e89	Consortia	3,523	104,889.6	7.96%	142,094.8	10.78%	121,237.2	9.20%

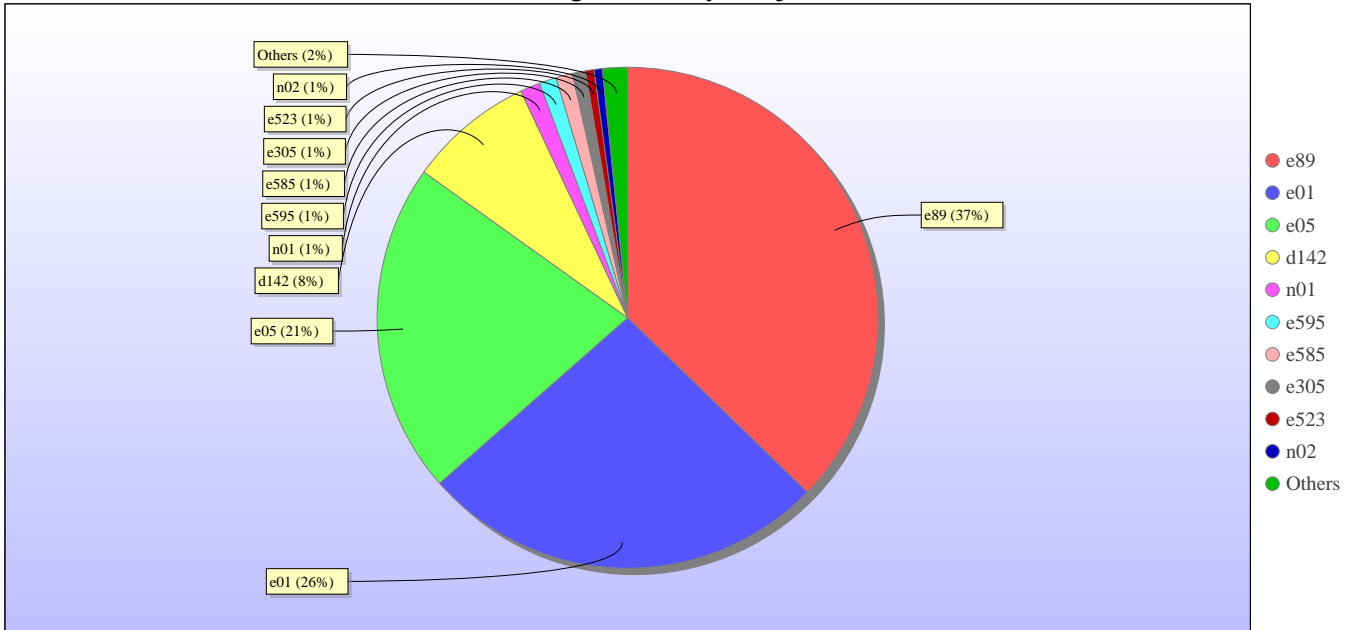
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e280	Consortia	3,184	52,679.2	4.00%	53,082.7	4.03%	54,814.3	4.16%
e281	Consortia	482	9,894.0	0.75%	10,181.6	0.77%	21,574.3	1.64%
e283	Consortia	650	3,785.3	0.29%	3,839.3	0.29%	13,321.1	1.01%
e305	Consortia	175	4,692.2	0.36%	5,541.8	0.42%	24,404.6	1.85%
e585	Consortia	1,100	20,238.8	1.54%	21,298.9	1.62%	25,549.5	1.94%
e348	Direct Access: ARCHER RAP	92	5,274.4	0.40%	5,274.4	0.40%	5,360.3	0.41%
e567	Direct Access: ARCHER RAP	9	2,982.9	0.23%	2,982.9	0.23%	0.0	0.00%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	7,578.1	0.58%
e595	Direct Access: ARCHER RAP	24	7,524.1	0.57%	8,632.6	0.66%	3,387.6	0.26%
e596	Direct Access: ARCHER RAP	29	868.4	0.07%	868.4	0.07%	1,294.9	0.10%
e597	Direct Access: ARCHER RAP	1	2,165.4	0.16%	2,165.4	0.16%	8,809.1	0.67%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	4,257.7	0.32%
e601	Direct Access: ARCHER RAP	40	2,287.3	0.17%	1,596.1	0.12%	4,669.2	0.35%
e602	Direct Access: ARCHER RAP	25	904.5	0.07%	904.5	0.07%	1,878.5	0.14%
e603	Direct Access: ARCHER RAP	3	934.0	0.07%	1,037.9	0.08%	3,130.9	0.24%
e614	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,473.1	0.19%
e616	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	644.6	0.05%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	984.7	0.07%
e582	Instant Access	37	0.0	0.00%	0.0	0.00%	202.6	0.02%
e592	Instant Access	0	0.0	0.00%	0.0	0.00%	144.7	0.01%
e594	Instant Access	0	0.0	0.00%	0.0	0.00%	170.9	0.01%
e598	Instant Access	0	0.0	0.00%	0.0	0.00%	202.1	0.02%
e600	Instant Access	0	0.0	0.00%	0.0	0.00%	202.1	0.02%
e556	Training	11	25.4	0.00%	285.5	0.02%	2,596.9	0.20%
e573	Training	133	214.8	0.02%	214.8	0.02%	1,917.7	0.15%
e589	Training	28	1,175.5	0.09%	1,175.5	0.09%	3,049.2	0.23%
e604	Training	322	3,202.2	0.24%	3,226.2	0.24%	1,909.5	0.14%
y16	Service	0	0.0	0.00%	0.0	0.00%	141.6	0.01%
z17	Service	29	2,759.4	0.21%	2,759.4	0.21%	3,368.8	0.26%
EPSRC Total		25,014	596,303.5	45.25%	685,381.9	52.01%	746,273.0	56.63%
n01	Consortia	3,648	104,053.5	7.90%	104,576.8	7.94%	109,137.0	8.28%
n02	Consortia	21,827	124,129.8	9.42%	124,242.1	9.43%	171,561.6	13.02%
n03	Consortia	1,089	41,230.0	3.13%	41,390.8	3.14%	90,027.4	6.83%
NERC Total		26,564	269,413.3	20.44%	270,209.7	20.51%	370,726.0	28.13%
e568	Research	257	3,176.4	0.24%	3,176.4	0.24%	3,638.5	0.28%
BBSRC Total		257	3,176.4	0.24%	3,176.4	0.24%	3,638.5	0.28%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	101.9	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1453	DECI: EXEC	10	5,189.1	0.39%	5,189.1	0.39%	8,557.1	0.65%
pr1u1455	DECI: EXEC	2	88.7	0.01%	88.7	0.01%	973.4	0.07%
PRACE Total		12	5,277.8	0.40%	5,277.8	0.40%	9,632.8	0.73%
ecse1001	Consortia	17	99.1	0.01%	99.1	0.01%	421.1	0.03%
ecse0910	eCSE	0	0.0	0.00%	0.0	0.00%	51.0	0.00%
ecse1008	eCSE	0	0.0	0.00%	0.0	0.00%	119.2	0.01%
ecse1012	eCSE	0	0.0	0.00%	0.0	0.00%	59.5	0.00%
ecse1109	eCSE	0	0.0	0.00%	0.0	0.00%	39.7	0.00%
ecse1208	eCSE	32	5.3	0.00%	5.3	0.00%	45.1	0.00%
ecse1209	eCSE	0	0.0	0.00%	0.0	0.00%	86.3	0.01%
eCSE Total		49	104.4	0.01%	104.4	0.01%	821.9	0.06%
d43	ECDF	17	1,019.5	0.08%	1,019.5	0.08%	2,547.9	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
d35	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d56	Research	746	5,803.1	0.44%	5,803.1	0.44%	6,737.6	0.51%
d60	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d67	Research	8	748.2	0.06%	748.2	0.06%	297.3	0.02%
d71	Research	0	0.0	0.00%	0.0	0.00%	1,104.1	0.08%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d100	Research	0	0.0	0.00%	0.0	0.00%	474.0	0.04%
d101	Research	0	0.0	0.00%	0.0	0.00%	552.1	0.04%
d107	Research	11	0.8	0.00%	0.8	0.00%	424.7	0.03%
d114	Research	837	9,881.4	0.75%	9,881.7	0.75%	9,451.2	0.72%
d118	Research	0	0.0	0.00%	0.0	0.00%	105.4	0.01%
d137	Research	239	3,866.2	0.29%	3,866.2	0.29%	2,547.9	0.19%
d142	Research	20	29,453.4	2.24%	37,545.5	2.85%	4,246.6	0.32%
d143	Research	42	1,034.5	0.08%	1,034.5	0.08%	2,554.9	0.19%
d145	Research	18	494.1	0.04%	494.1	0.04%	254.8	0.02%
d150	Research	51	16,934.9	1.29%	16,934.9	1.29%	8,085.1	0.61%
d155	Research	100	2,435.1	0.18%	2,435.1	0.18%	3,567.1	0.27%
d166	Research	83	2,109.7	0.16%	2,109.7	0.16%	2,030.2	0.15%
d426	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d153	Industrial	129	363.8	0.03%	363.9	0.03%	561.4	0.04%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	85.6	0.01%
d165	Industrial	0	0.0	0.00%	0.0	0.00%	8.2	0.00%
d168	Industrial	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
i18	Industrial	14	285.3	0.02%	285.3	0.02%	2,932.7	0.22%
i21	Industrial	3	362.9	0.03%	241.9	0.02%	10,104.1	0.77%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
i219	Industrial	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	70.0	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	1,630.7	0.12%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	1,019.2	0.08%
d74	Training	0	0.0	0.00%	0.0	0.00%	169.9	0.01%
d133	Training	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
d167	Training	0	0.0	0.00%	0.0	0.00%	169.9	0.01%
d131	Service	1	2.5	0.00%	2.5	0.00%	254.8	0.02%
d134	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	1.9	0.00%
y01	Service	3	0.0	0.00%	0.0	0.00%	20.3	0.00%
y02	Service	1	0.0	0.00%	0.0	0.00%	84.9	0.01%
y07	Service	38	0.0	0.00%	1.9	0.00%	8.5	0.00%
z02	Service	1	0.0	0.00%	0.0	0.00%	42.5	0.00%
z99	Service	23	0.1	0.00%	0.1	0.00%	8.5	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	986.3	0.07%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
DirectorsTime Total		2,385	74,795.6	5.68%	82,769.0	6.28%	64,582.6	4.90%
y14	Training	56	53.5	0.00%	35.7	0.00%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
z19	Service	31	434.6	0.03%	434.6	0.03%	5,945.2	0.45%
CSE Total		87	488.1	0.04%	470.3	0.04%	6,964.4	0.53%
Total		54,368	949,559.1	72.06%	1,047,389.4	79.48%	1,202,639.2	91.26%

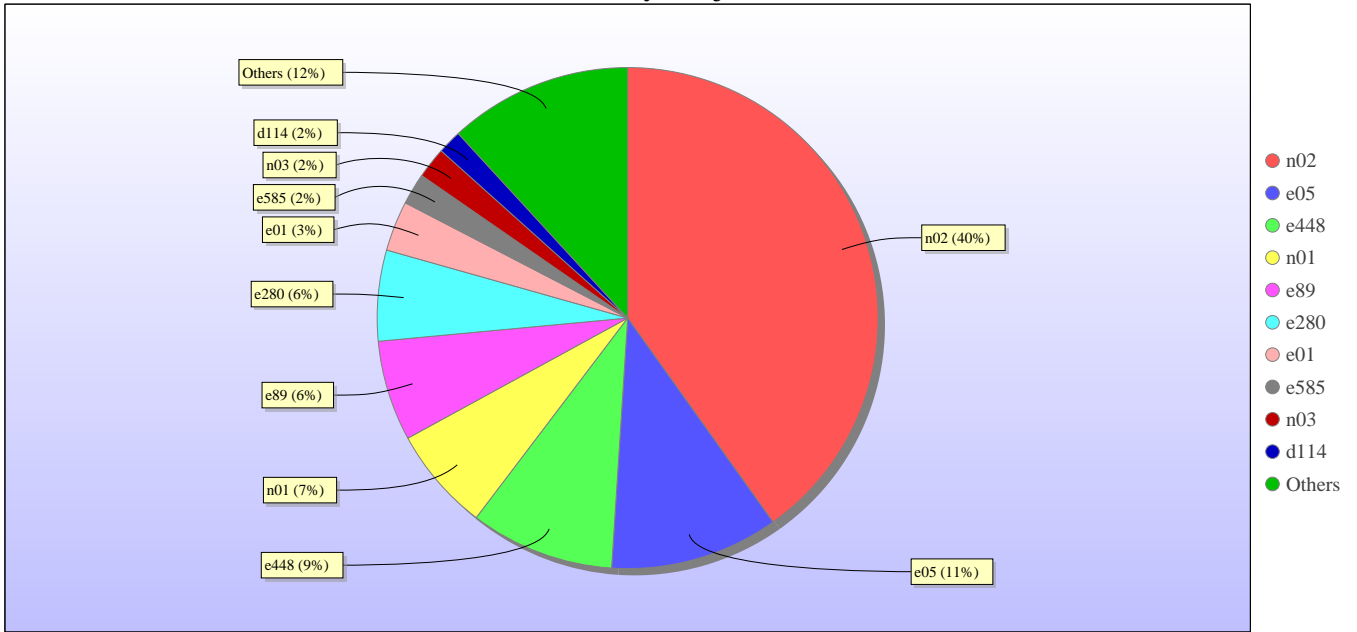
Use by Project



Uncharged Use by Project



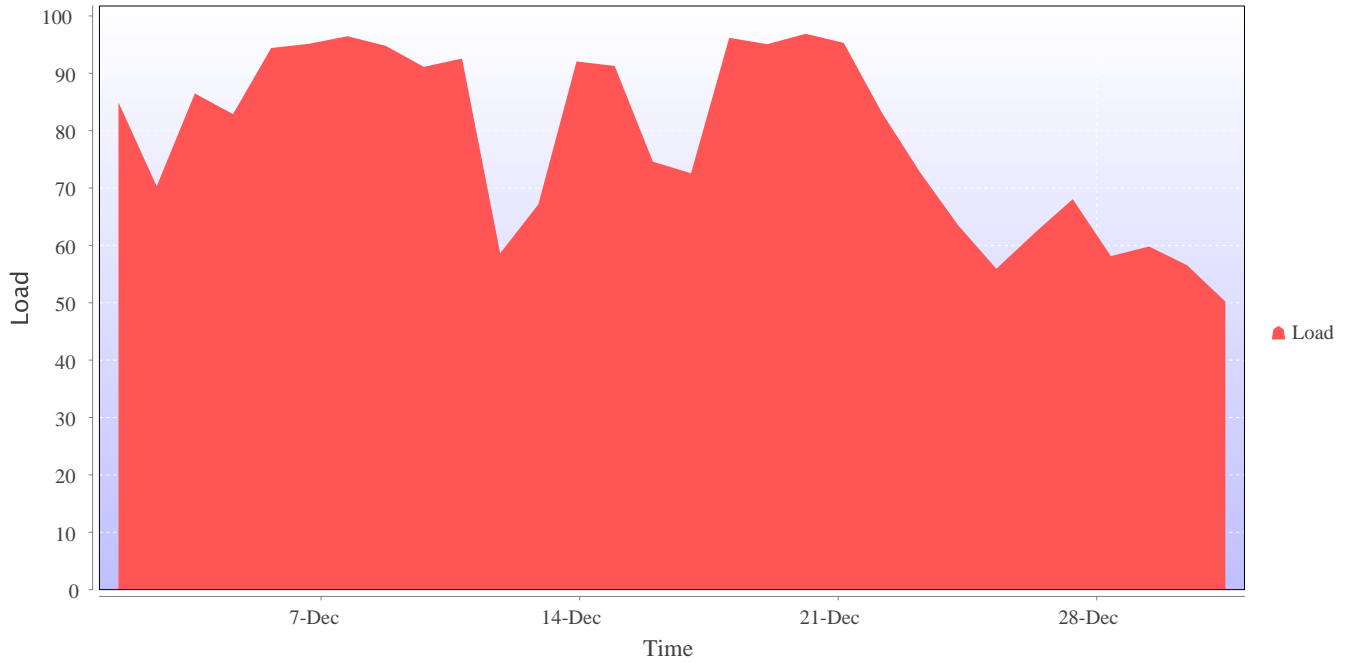
Jobs by Project



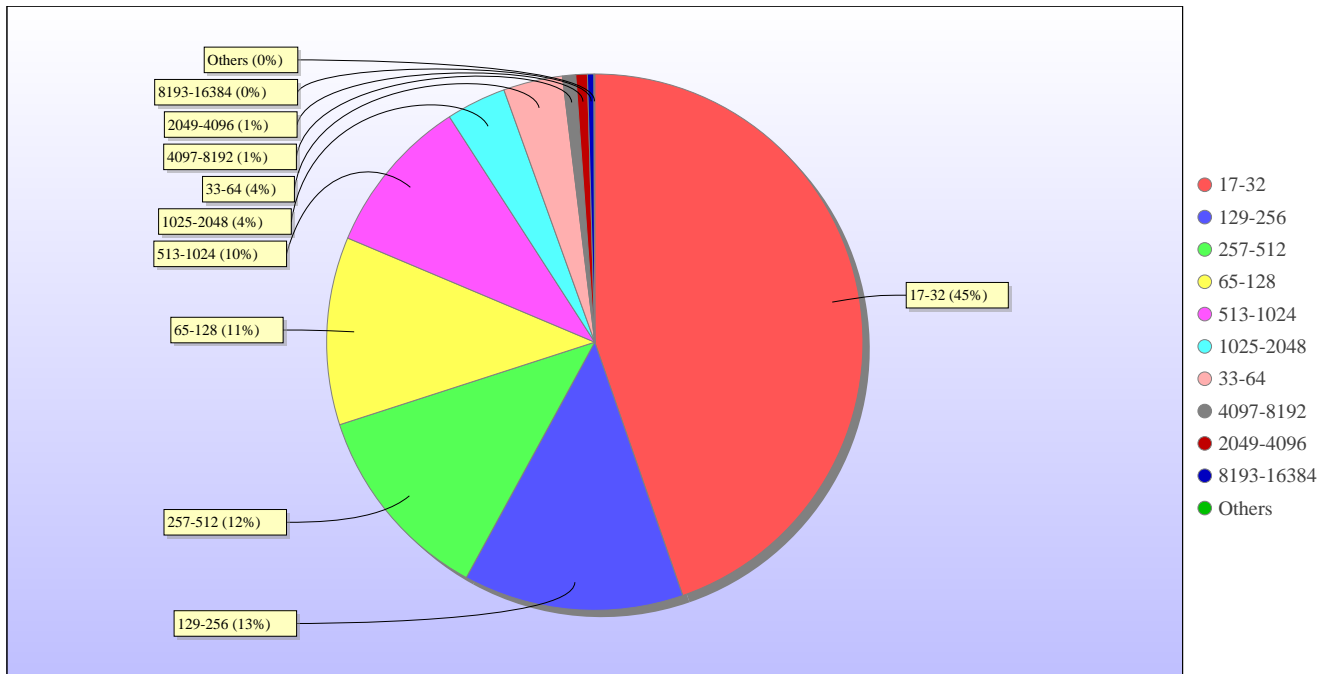
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	8,629.322	24,284
33-64	9,376.13	1,941
65-128	51,219.391	6,156
129-256	109,829.266	7,213
257-512	150,164.833	6,559
513-1024	187,315.219	5,183
1025-2048	137,773.672	1,966
2049-4096	63,927.105	377
4097-8192	107,621.625	433
8193-16384	85,570.989	211
16385-32768	31,633.073	24
32769-65536	215.117	2
65537-131072	247.795	1

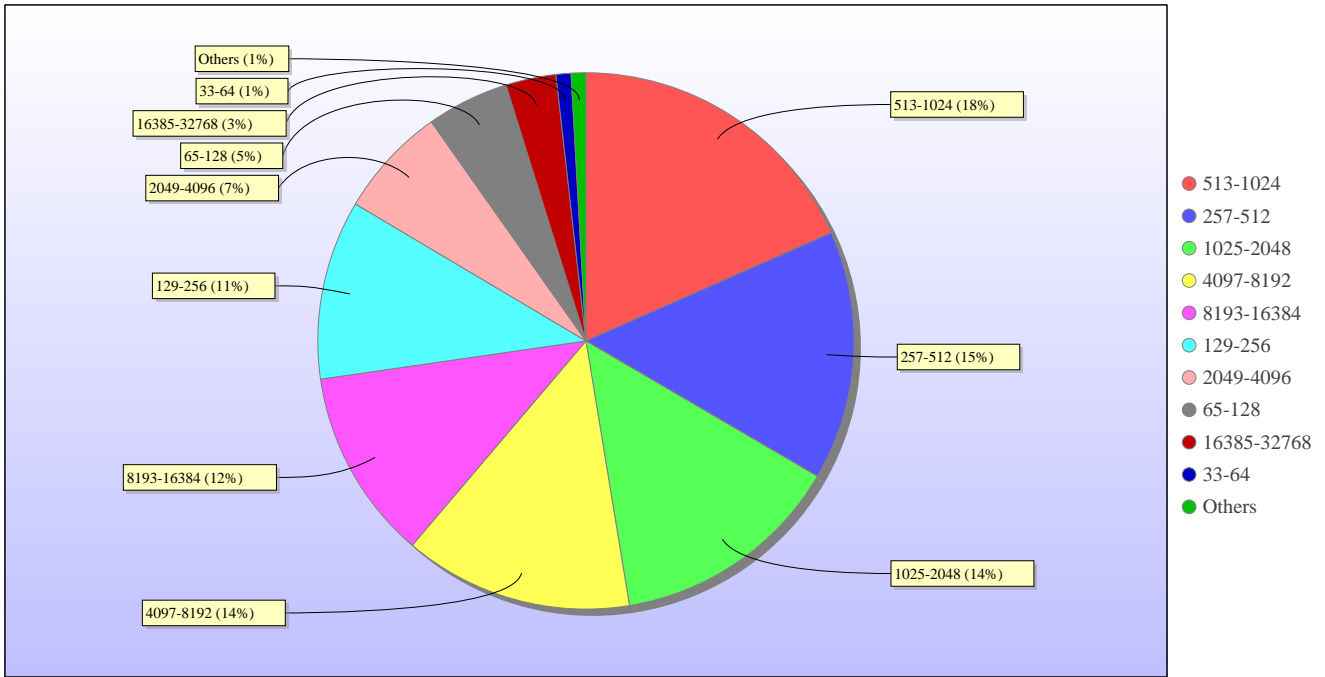
Load plots



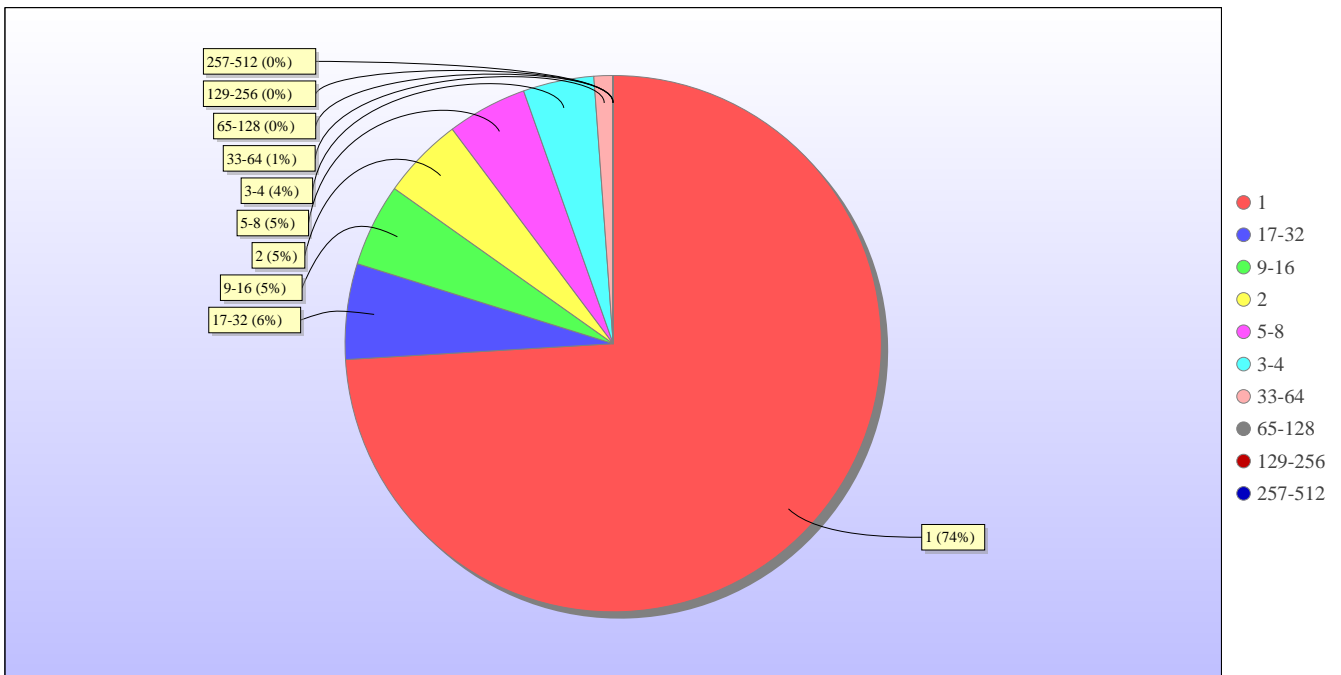
Percentage load on machine



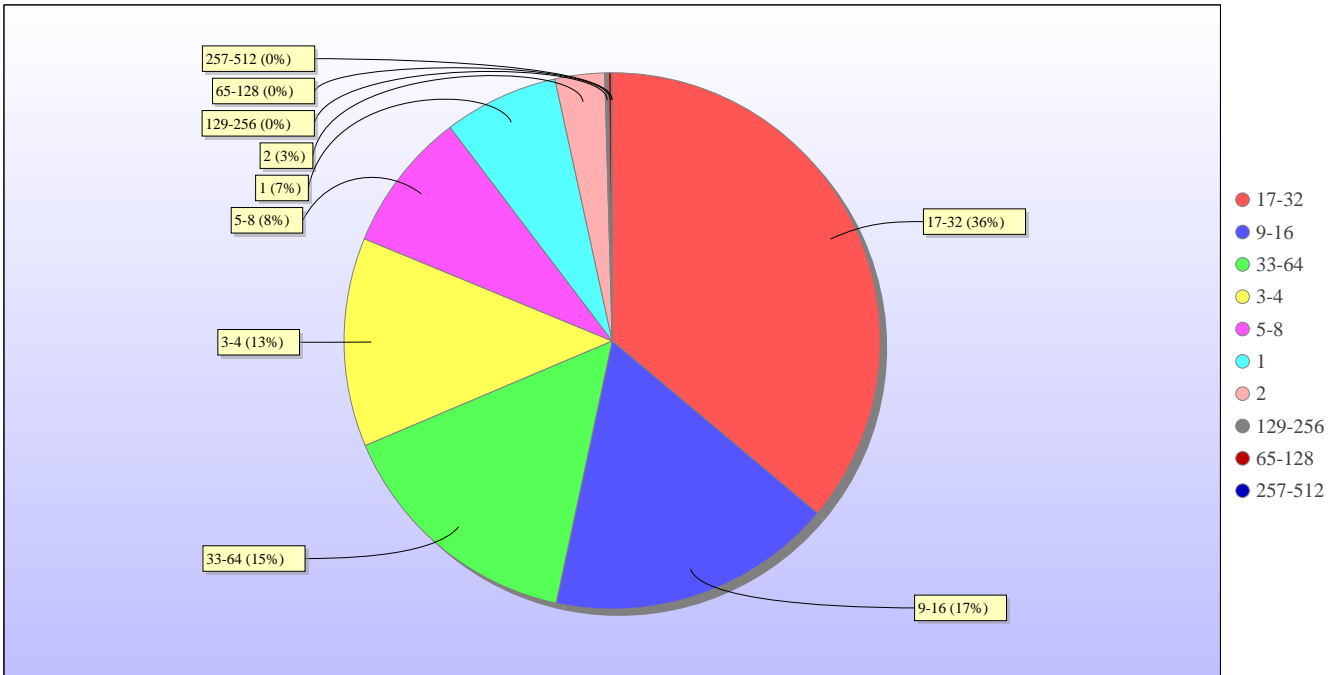
Jobs by Size



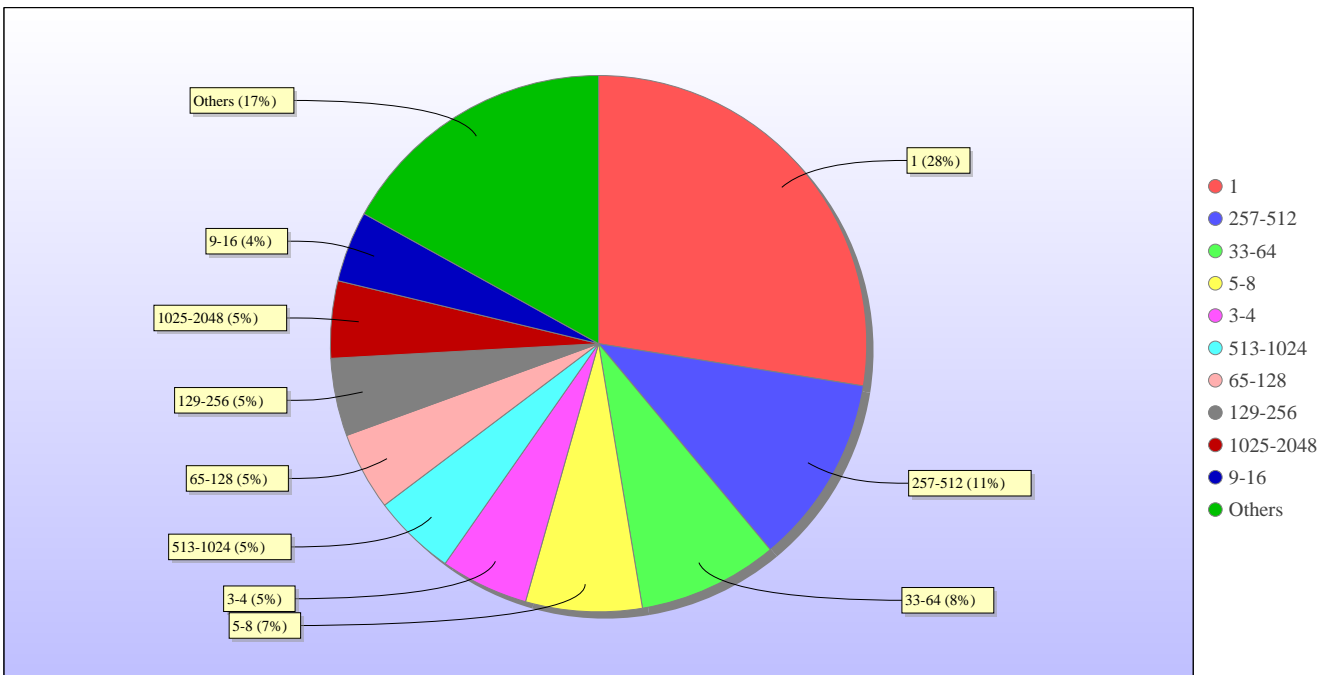
kAUs used by Size



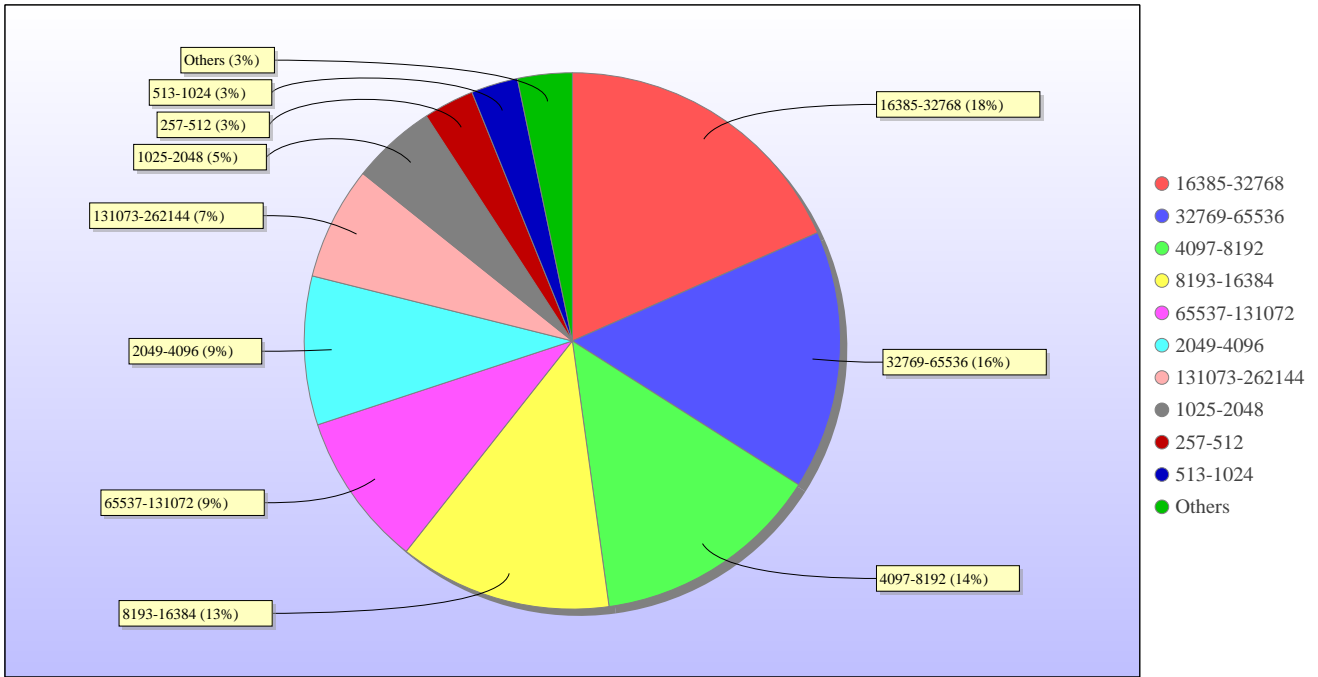
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

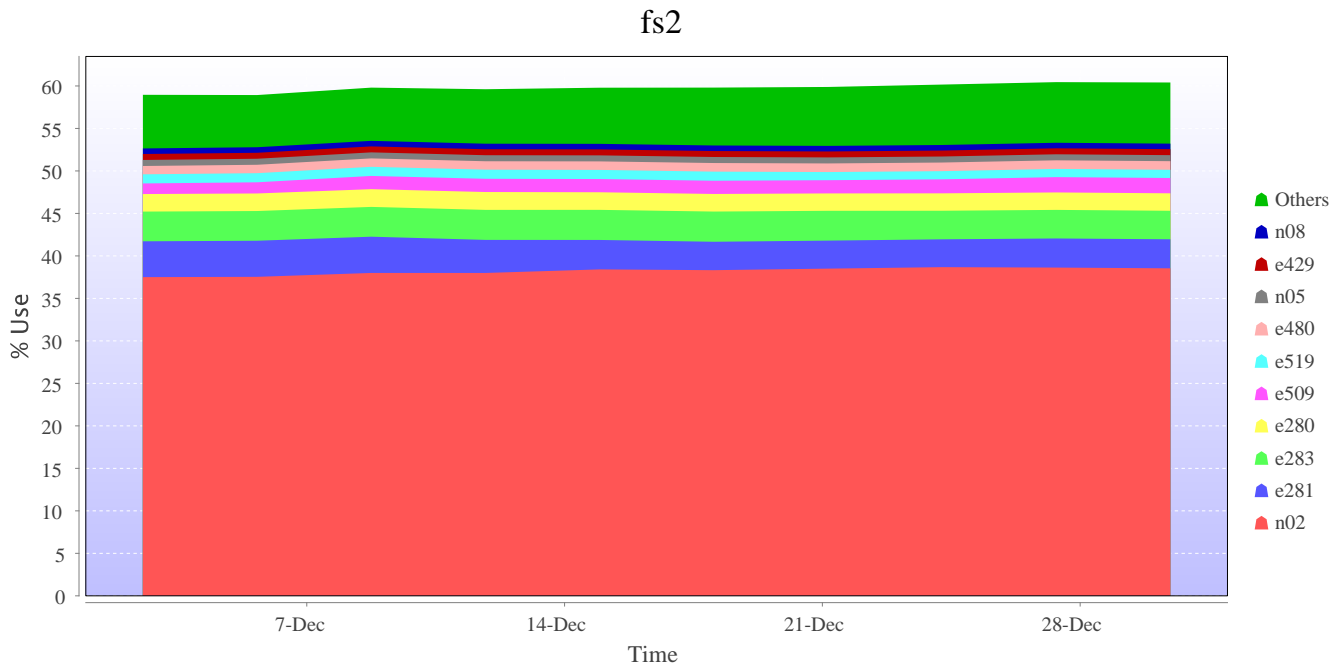


kAUs used grouped by core-hours

Disk usage

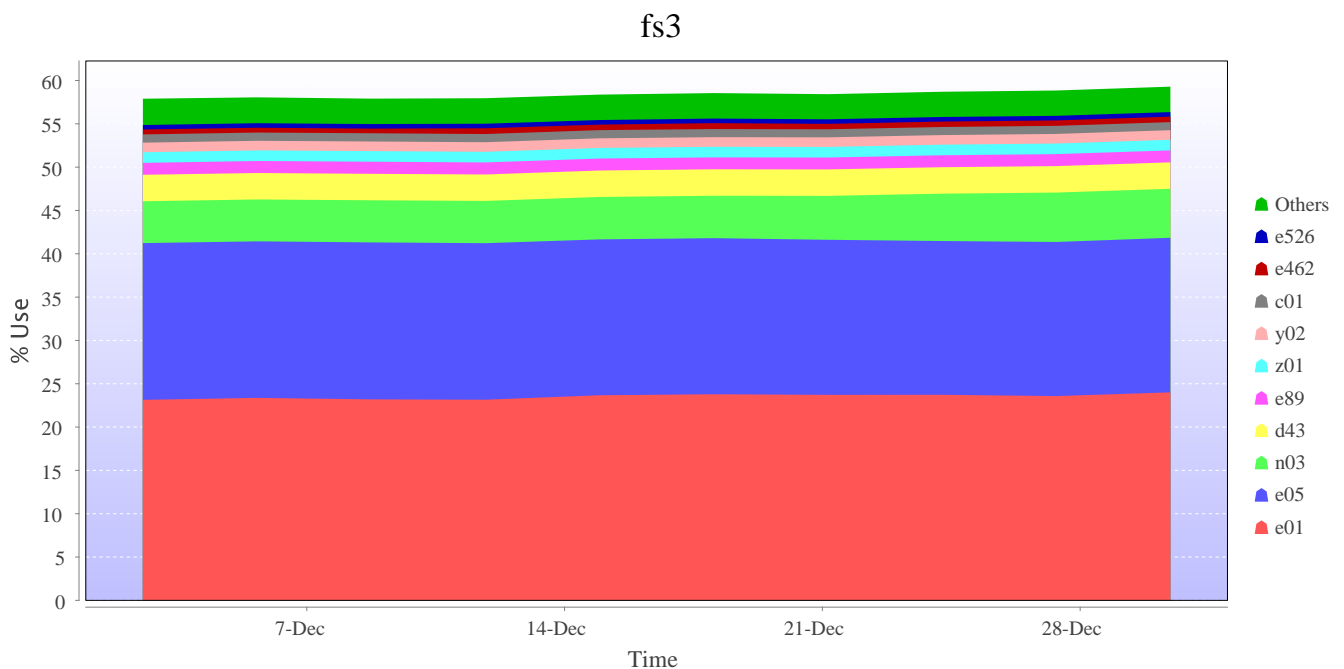
Disk usage for work (fs2)

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.



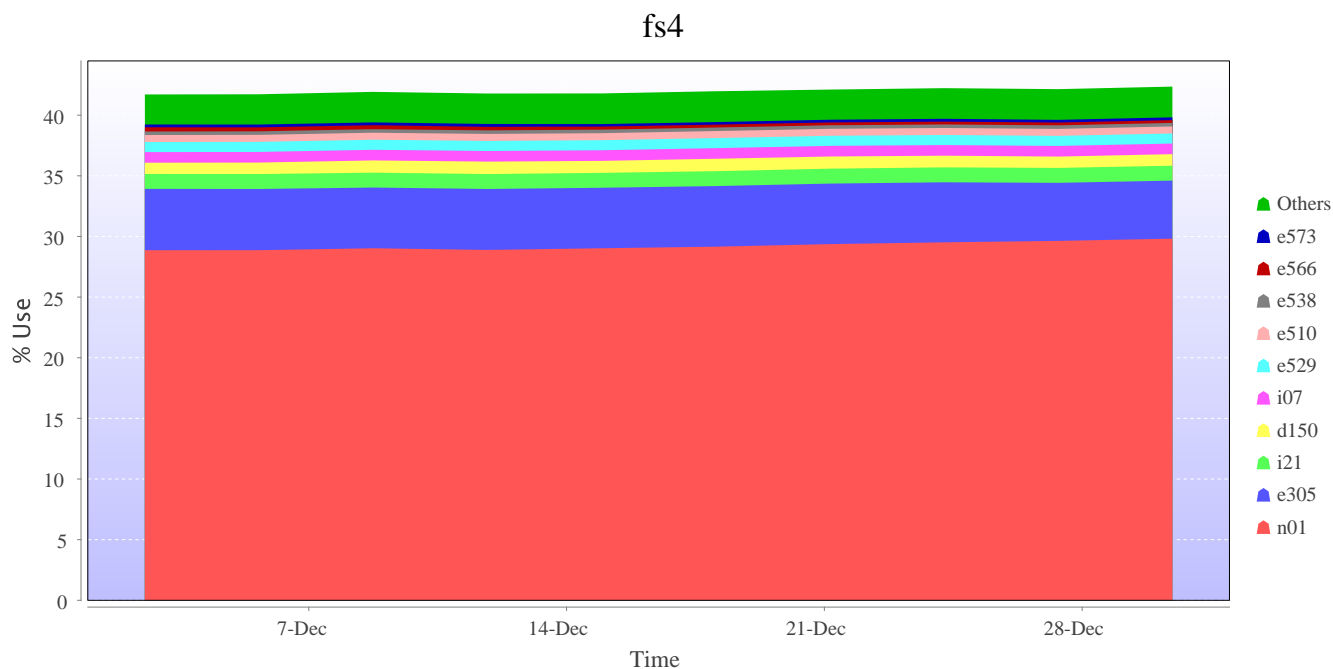
Disk usage for work (fs3)

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.



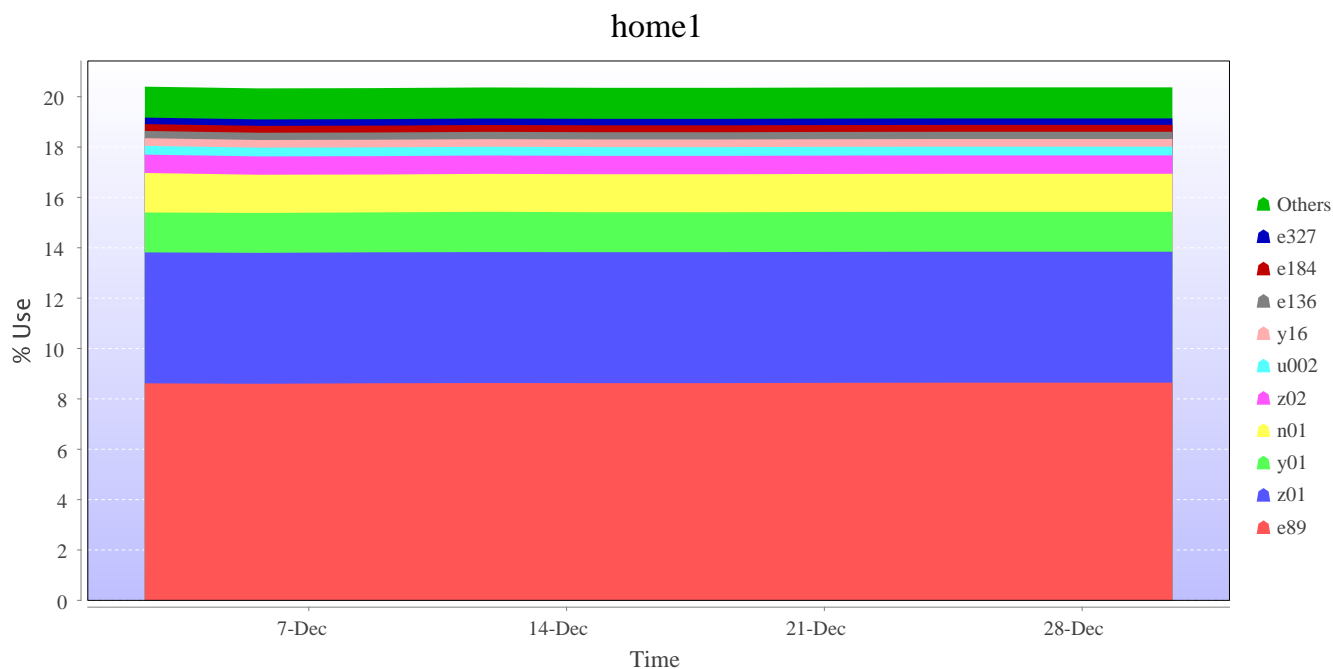
Disk usage for work (fs4)

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.



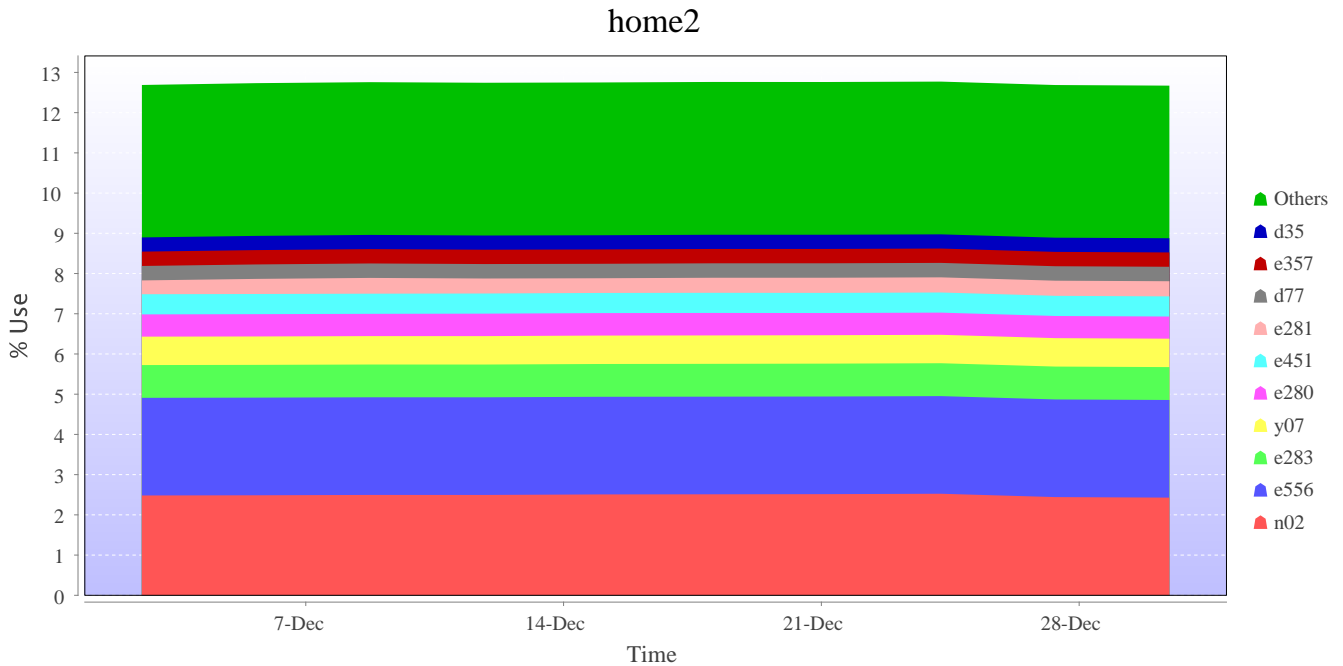
Disk usage for home (home1)

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.



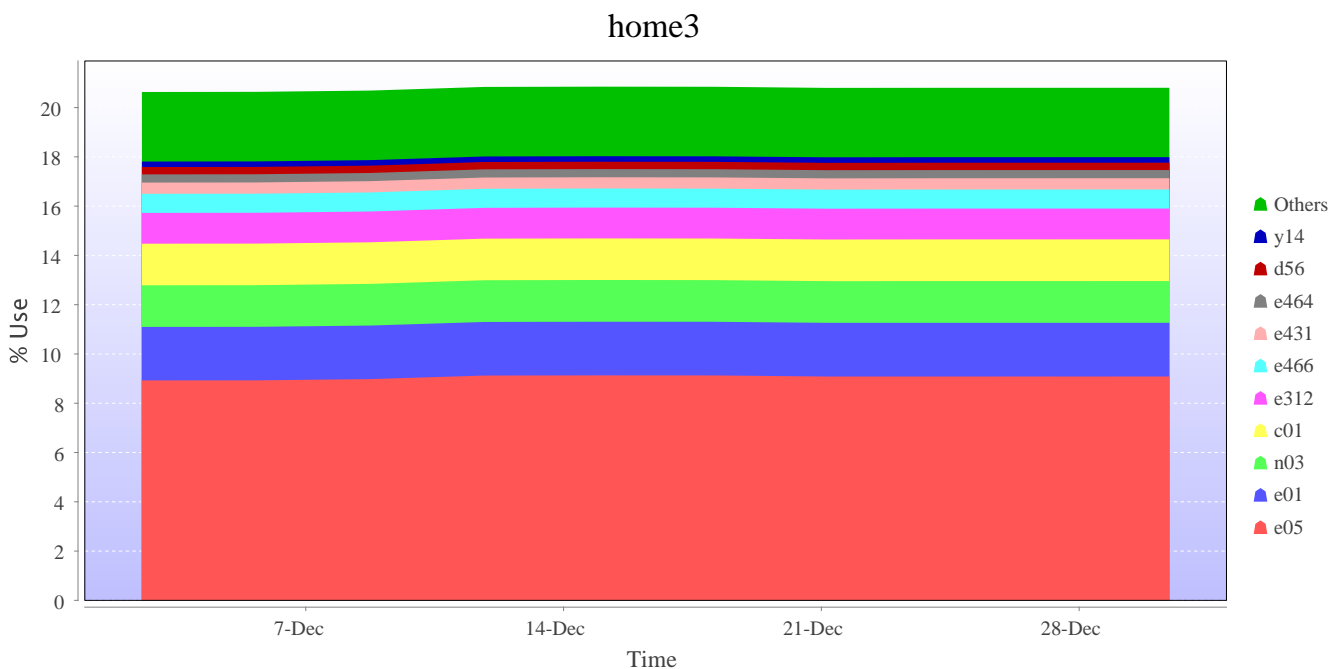
Disk usage for home (home2)

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.

