

Monthly Reporting

Report from 01 March 2019 to 31 March 2019

Report for Resource Pool XC on ARCHER

A total of 1,316,001.597 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.

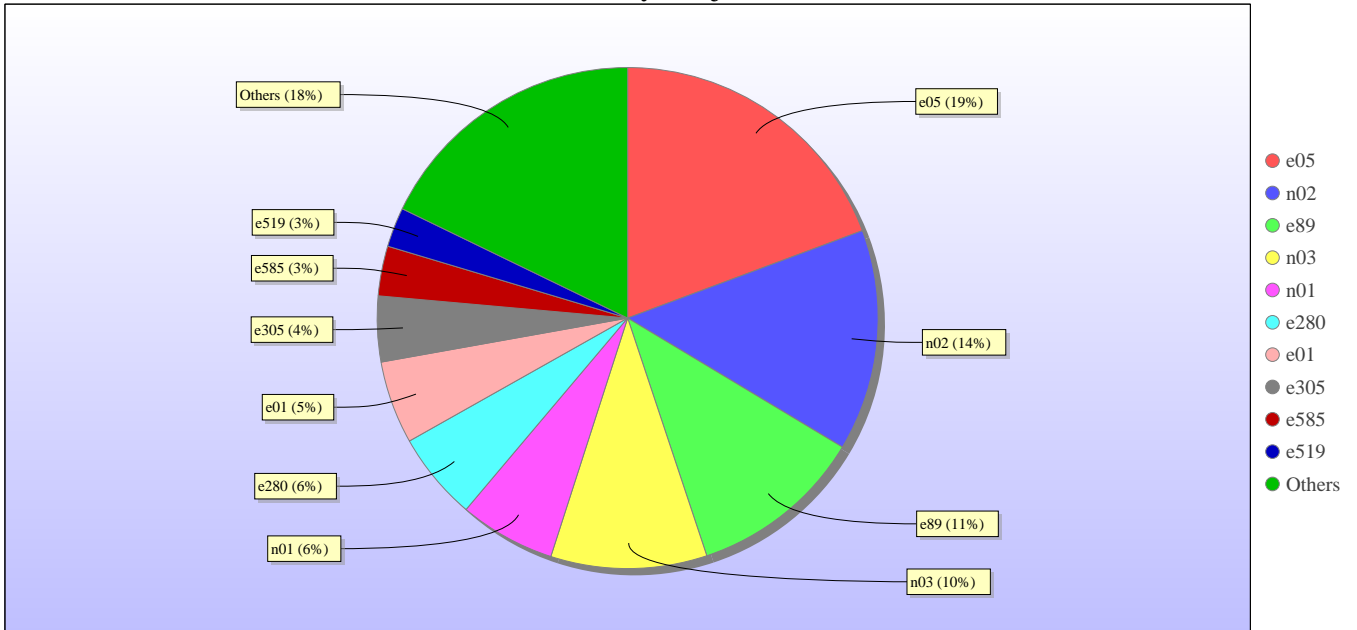
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
e572	Leadership Awards	530	3,714.0	0.28%	4,783.8	0.36%	3,062.5	0.23%
c01	Class1a	853	8,810.9	0.67%	8,810.9	0.67%	6,329.4	0.48%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	2,126.3	0.16%
e365	Class1a	0	0.0	0.00%	0.0	0.00%	2,374.3	0.18%
e403	Class1a	35	4,030.6	0.31%	4,030.6	0.31%	8,610.9	0.65%
e432	Class1a	140	9,188.1	0.70%	9,188.1	0.70%	6,513.0	0.49%
e448	Class1a	4,863	21,380.3	1.62%	21,380.4	1.62%	33,523.3	2.55%
e451	Class1a	83	1,577.7	0.12%	1,577.7	0.12%	3,781.4	0.29%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	336.6	0.03%
e515	Class1a	0	0.0	0.00%	0.0	0.00%	3,421.6	0.26%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	101.0	0.01%
e518	Class1a	57	7,253.3	0.55%	7,253.4	0.55%	1,360.8	0.10%
e519	Class1a	244	30,665.3	2.33%	30,665.4	2.33%	15,309.1	1.16%
e520	Class1a	0	0.0	0.00%	0.0	0.00%	2,484.0	0.19%
e523	Class1a	38	1,853.0	0.14%	3,687.2	0.28%	5,389.0	0.41%
e527	Class1a	79	839.6	0.06%	839.6	0.06%	1,881.9	0.14%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	1,134.6	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	3,857.9	0.29%
e558	Class1a	16	306.7	0.02%	306.7	0.02%	763.4	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	1,954.2	0.15%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	204.2	0.02%
e575	Class1a	67	34.2	0.00%	35.1	0.00%	2,860.9	0.22%
e580	Class1a	25	149.8	0.01%	149.8	0.01%	2,507.6	0.19%
e584	Class1a	89	1.3	0.00%	1.3	0.00%	2,215.1	0.17%
e588	Class1a	72	2,282.1	0.17%	2,282.1	0.17%	2,029.9	0.15%
e605	Class1a	81	3,502.1	0.27%	3,511.6	0.27%	1,058.8	0.08%
e606	Class1a	126	11,099.5	0.84%	11,099.5	0.84%	3,415.0	0.26%
e607	Class1a	0	0.0	0.00%	0.0	0.00%	5,103.0	0.39%
e608	Class1a	62	9,637.6	0.73%	11,828.2	0.90%	4,253.5	0.32%
e609	Class1a	259	125.8	0.01%	125.8	0.01%	9,355.5	0.71%
e610	Class1a	193	5,304.4	0.40%	5,304.4	0.40%	7,698.6	0.58%
e611	Class1a	1	2.2	0.00%	2.2	0.00%	1,112.0	0.08%
e613	Class1a	0	0.0	0.00%	0.0	0.00%	1,020.8	0.08%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	256.6	0.02%
e01	Consortia	919	55,263.5	4.20%	64,257.2	4.88%	79,633.4	6.05%
e05	Consortia	10,422	186,807.9	14.20%	232,059.9	17.63%	185,708.1	14.11%
e89	Consortia	4,431	128,481.5	9.76%	135,362.8	10.29%	119,154.6	9.05%
e280	Consortia	6,740	67,784.6	5.15%	68,166.0	5.18%	54,740.6	4.16%
e281	Consortia	915	27,042.5	2.05%	29,606.9	2.25%	21,545.3	1.64%
e283	Consortia	1,662	22,700.2	1.72%	22,706.7	1.73%	13,303.2	1.01%
e305	Consortia	1,176	49,463.0	3.76%	50,785.5	3.86%	41,468.1	3.15%

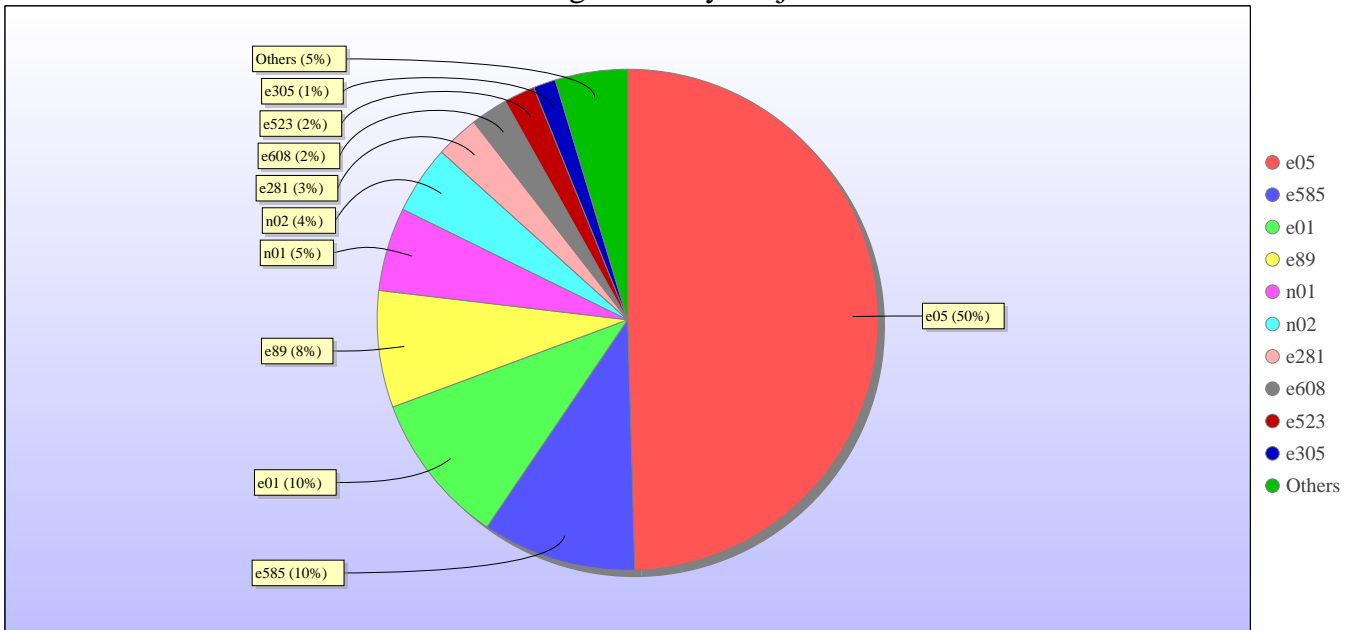
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e585	Consortia	600	29,528.5	2.24%	38,614.0	2.93%	25,515.1	1.94%
e348	Direct Access: ARCHER RAP	244	6,237.8	0.47%	6,237.8	0.47%	5,353.1	0.41%
e590	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	4,046.9	0.31%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,849.3	0.29%
e595	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,386.9	0.26%
e596	Direct Access: ARCHER RAP	157	1,103.9	0.08%	1,103.9	0.08%	1,315.2	0.10%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,357.3	0.26%
e601	Direct Access: ARCHER RAP	31	860.3	0.07%	860.3	0.07%	4,742.3	0.36%
e602	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,876.0	0.14%
e603	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,126.7	0.24%
e614	Direct Access: ARCHER RAP	151	1,760.4	0.13%	1,760.4	0.13%	5,104.2	0.39%
e616	Direct Access: ARCHER RAP	67	21.2	0.00%	21.2	0.00%	1,330.4	0.10%
e617	Direct Access: ARCHER RAP	14	178.0	0.01%	178.0	0.01%	7,610.1	0.58%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,345.0	0.18%
e619	Direct Access: ARCHER RAP	2	0.0	0.00%	0.0	0.00%	945.4	0.07%
e620	Direct Access: ARCHER RAP	112	6,555.7	0.50%	6,568.4	0.50%	6,659.0	0.51%
e622	Direct Access: ARCHER RAP	105	6,285.8	0.48%	6,285.8	0.48%	3,376.8	0.26%
e582	Instant Access	219	150.4	0.01%	150.4	0.01%	786.0	0.06%
e623	Instant Access	0	0.0	0.00%	0.0	0.00%	91.2	0.01%
e624	Instant Access	0	0.0	0.00%	0.0	0.00%	206.4	0.02%
e625	Instant Access	60	4.1	0.00%	4.3	0.00%	182.6	0.01%
e626	Instant Access	0	0.0	0.00%	0.0	0.00%	78.4	0.01%
csc01	Research	0	0.0	0.00%	0.0	0.00%	126.4	0.01%
e573	Training	29	203.1	0.02%	203.1	0.02%	1,915.1	0.15%
e589	Training	10	553.3	0.04%	553.3	0.04%	3,045.1	0.23%
e604	Training	410	1,899.3	0.14%	2,635.2	0.20%	1,906.9	0.14%
e612	Training	340	1,916.2	0.15%	1,916.2	0.15%	1,532.1	0.12%
y16	Service	0	0.0	0.00%	0.0	0.00%	141.4	0.01%
z17	Service	58	3,505.4	0.27%	3,505.4	0.27%	3,421.6	0.26%
EPSRC Total		36,787	720,065.3	54.72%	800,406.6	60.82%	760,333.1	57.78%
n01	Consortia	4,195	70,840.6	5.38%	74,400.0	5.65%	108,990.3	8.28%
n02	Consortia	28,190	167,606.9	12.74%	171,519.9	13.03%	171,331.1	13.02%
n03	Consortia	2,634	120,998.9	9.19%	121,025.6	9.20%	89,906.4	6.83%
NERC Total		35,019	359,446.4	27.31%	366,945.5	27.88%	370,227.7	28.13%
e621	Leadership Awards	0	0.0	0.00%	0.0	0.00%	4,020.4	0.31%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,549.1	0.27%
BBSRC Total		0	0.0	0.00%	0.0	0.00%	7,569.5	0.58%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	169.6	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	0.4	0.00%
pr1u1455	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	823.9	0.06%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	129.5	0.01%
PRACE Total		0	0.0	0.00%	0.0	0.00%	1,123.5	0.09%
ecse0910	eCSE	65	0.0	0.00%	0.0	0.00%	51.0	0.00%
ecse1012	eCSE	0	0.0	0.00%	0.0	0.00%	40.1	0.00%
ecse1303	eCSE	0	0.0	0.00%	0.0	0.00%	47.8	0.00%
ecse1307	eCSE	0	0.0	0.00%	0.0	0.00%	47.8	0.00%
ecse1320	eCSE	130	0.0	0.00%	0.0	0.00%	45.0	0.00%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
eCSE Total		195	0.0	0.00%	0.0	0.00%	231.6	0.02%
d43	ECDF	0	0.0	0.00%	0.0	0.00%	848.2	0.06%
d56	Research	778	6,799.7	0.52%	6,799.7	0.52%	6,843.2	0.52%
d67	Research	112	1,291.5	0.10%	1,291.5	0.10%	169.6	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d114	Research	399	4,035.8	0.31%	4,783.7	0.36%	11,298.9	0.86%
d118	Research	64	264.3	0.02%	264.3	0.02%	84.8	0.01%
d137	Research	7	10.0	0.00%	10.0	0.00%	2,544.5	0.19%
d142	Research	283	1,226.0	0.09%	2,376.6	0.18%	1,441.9	0.11%
d143	Research	31	284.7	0.02%	284.7	0.02%	2,551.5	0.19%
d149	Research	143	1,276.2	0.10%	1,303.3	0.10%	391.9	0.03%
d150	Research	23	3,237.5	0.25%	3,237.5	0.25%	8,211.8	0.62%
d155	Research	2,108	6,478.5	0.49%	6,568.7	0.50%	1,413.6	0.11%
d166	Research	121	3,039.9	0.23%	3,040.0	0.23%	691.3	0.05%
d170	Research	0	0.0	0.00%	0.0	0.00%	2.5	0.00%
d426	Research	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
d153	Industrial	20	18.4	0.00%	18.4	0.00%	1,017.8	0.08%
d168	Industrial	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	96.7	0.01%
i18	Industrial	28	1,646.4	0.13%	1,646.4	0.13%	2,928.7	0.22%
i21	Industrial	6	362.9	0.03%	241.9	0.02%	8,481.7	0.64%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	69.9	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	127.2	0.01%
i234	Industrial	0	0.0	0.00%	0.0	0.00%	92.4	0.01%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	848.2	0.06%
d74	Training	2,938	1,138.4	0.09%	1,138.4	0.09%	169.6	0.01%
d104	Training	103	2.1	0.00%	2.1	0.00%	113.4	0.01%
d167	Training	90	168.5	0.01%	168.5	0.01%	169.6	0.01%
d131	Service	69	7.2	0.00%	7.2	0.00%	254.5	0.02%
d134	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	113.4	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	14	0.0	0.00%	0.0	0.00%	84.8	0.01%
y07	Service	20	1.2	0.00%	2.1	0.00%	8.5	0.00%
y21	Service	0	0.0	0.00%	0.0	0.00%	424.1	0.03%
z02	Service	0	0.0	0.00%	0.0	0.00%	4.2	0.00%
z99	Service	23	0.2	0.00%	0.2	0.00%	8.5	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	2,544.5	0.19%
DirectorsTime Total		7,380	31,289.4	2.38%	33,185.2	2.52%	54,238.3	4.12%
y14	Training	315	308.5	0.02%	205.7	0.02%	593.7	0.05%
z19	Service	1,362	12.1	0.00%	12.9	0.00%	4,240.9	0.32%
CSE Total		1,677	320.6	0.02%	218.6	0.02%	4,834.6	0.37%
Total		81,058	1,111,121.7	84.43%	1,200,755.9	91.24%	1,198,558.4	91.08%

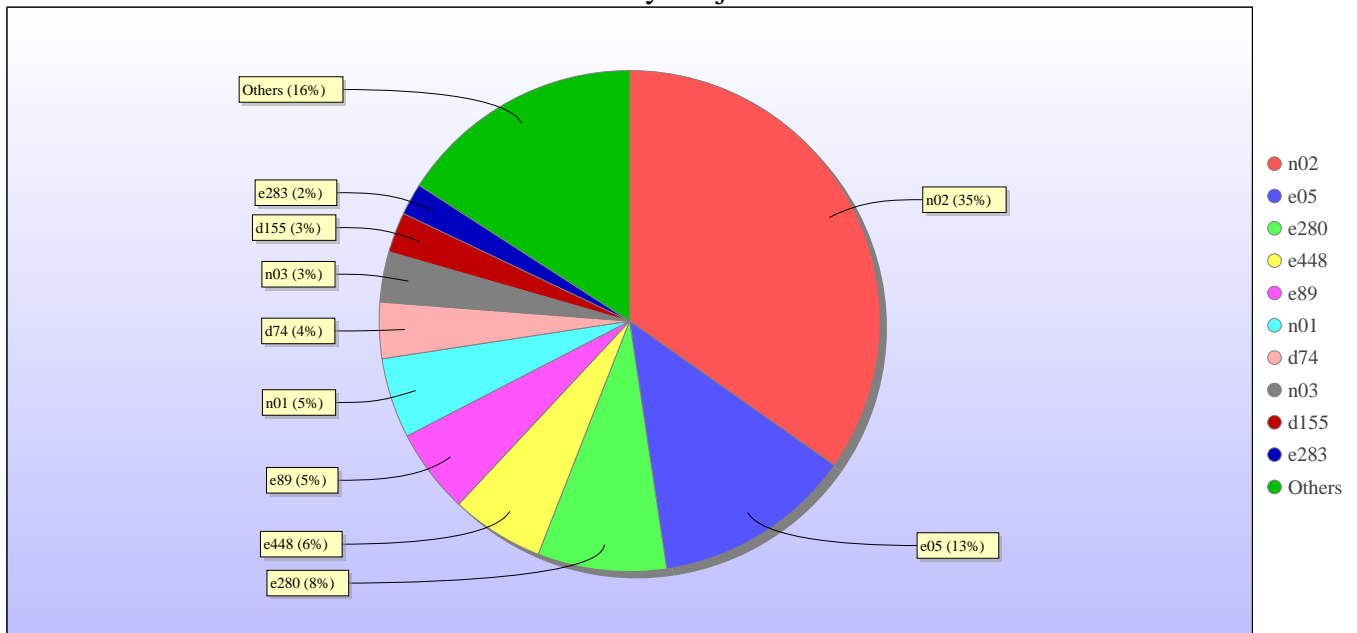
Use by Project



Uncharged Use by Project



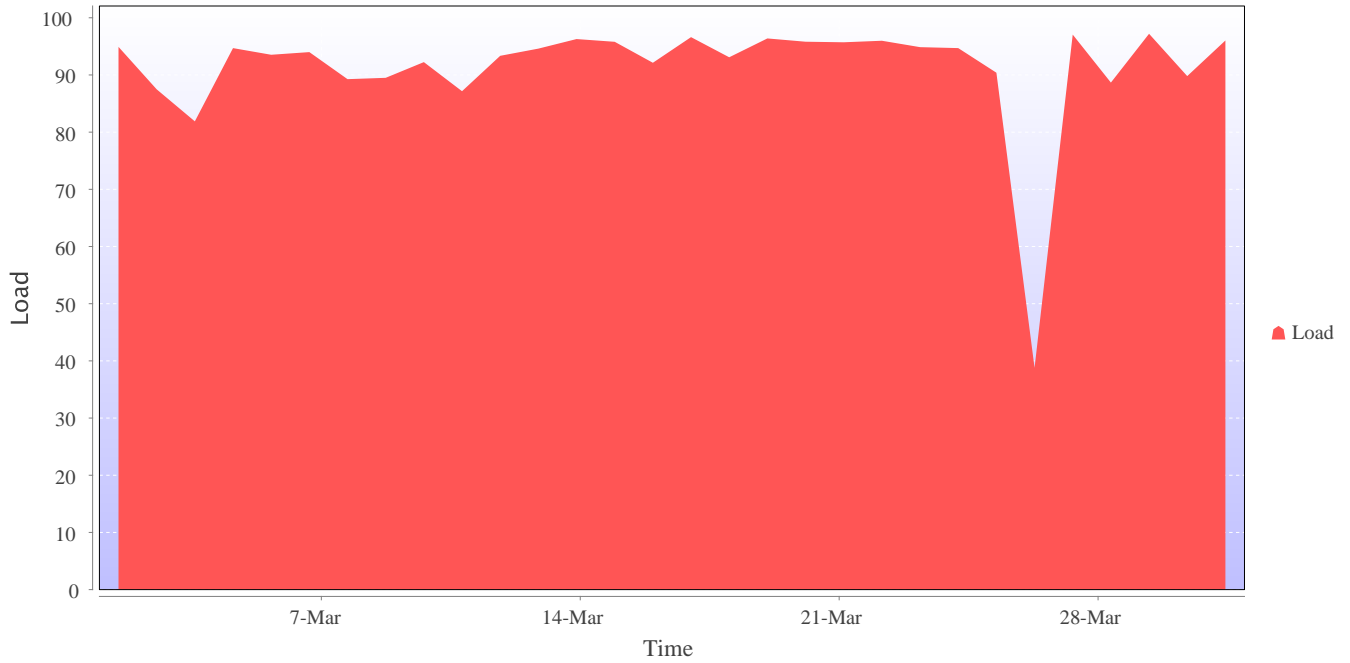
Jobs by Project



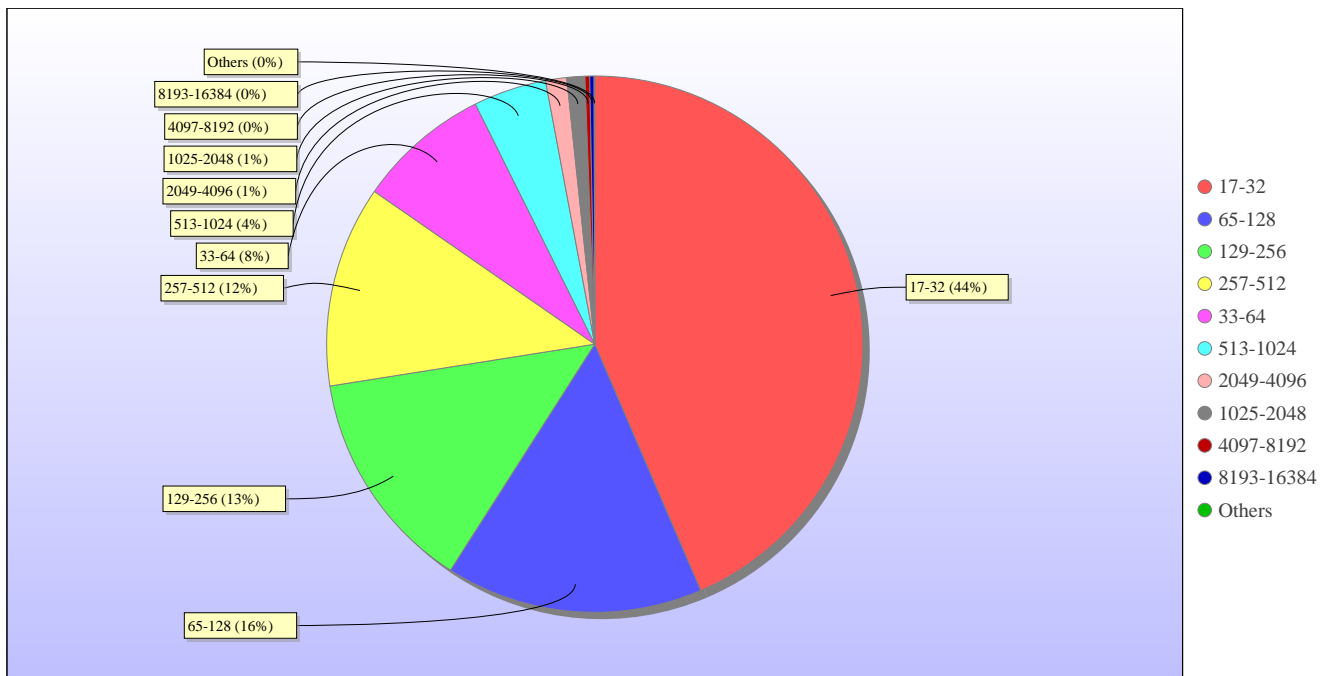
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	17,473.623	35,284
33-64	13,409.835	6,490
65-128	48,971.319	12,569
129-256	144,533.222	10,909
257-512	265,429.595	9,840
513-1024	194,952.21	3,569
1025-2048	118,081.921	878
2049-4096	156,415.431	1,033
4097-8192	40,575.084	231
8193-16384	98,274.167	211
16385-32768	1,316.076	17
32769-65536	1,000.858	6
65537-131072	5,593.498	10

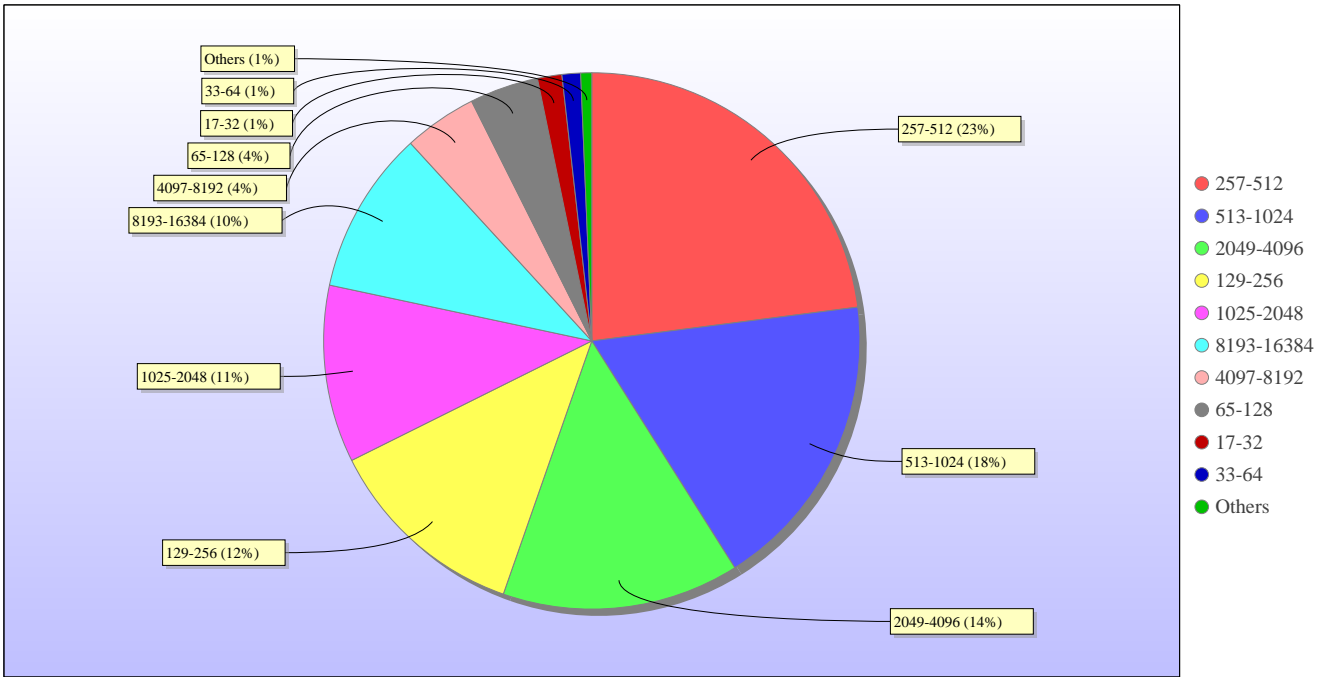
Load plots



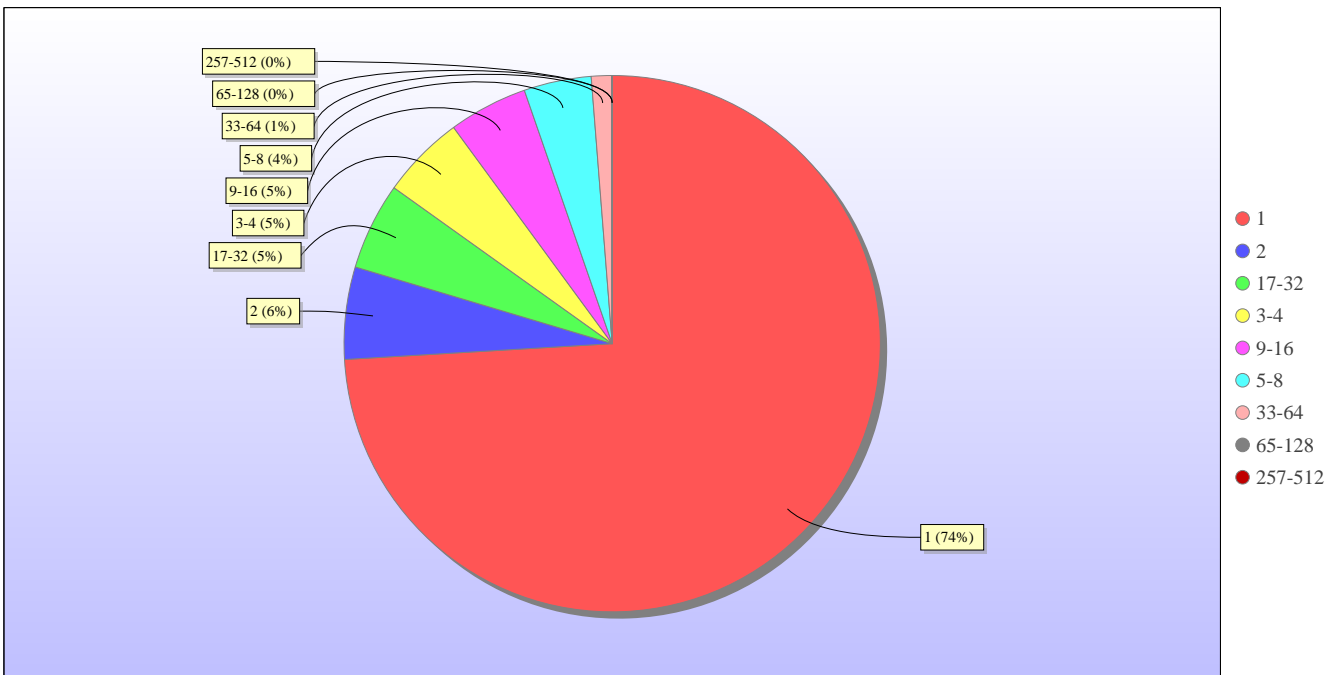
Percentage load on machine



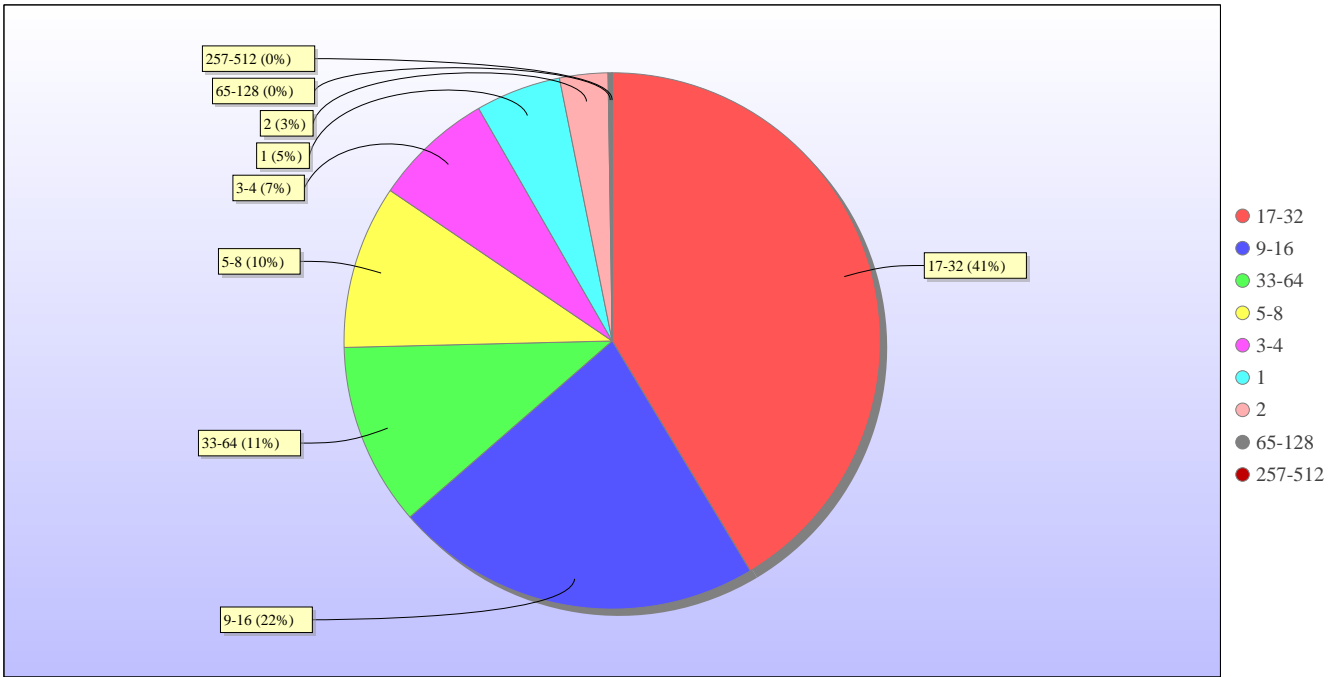
Jobs by Size



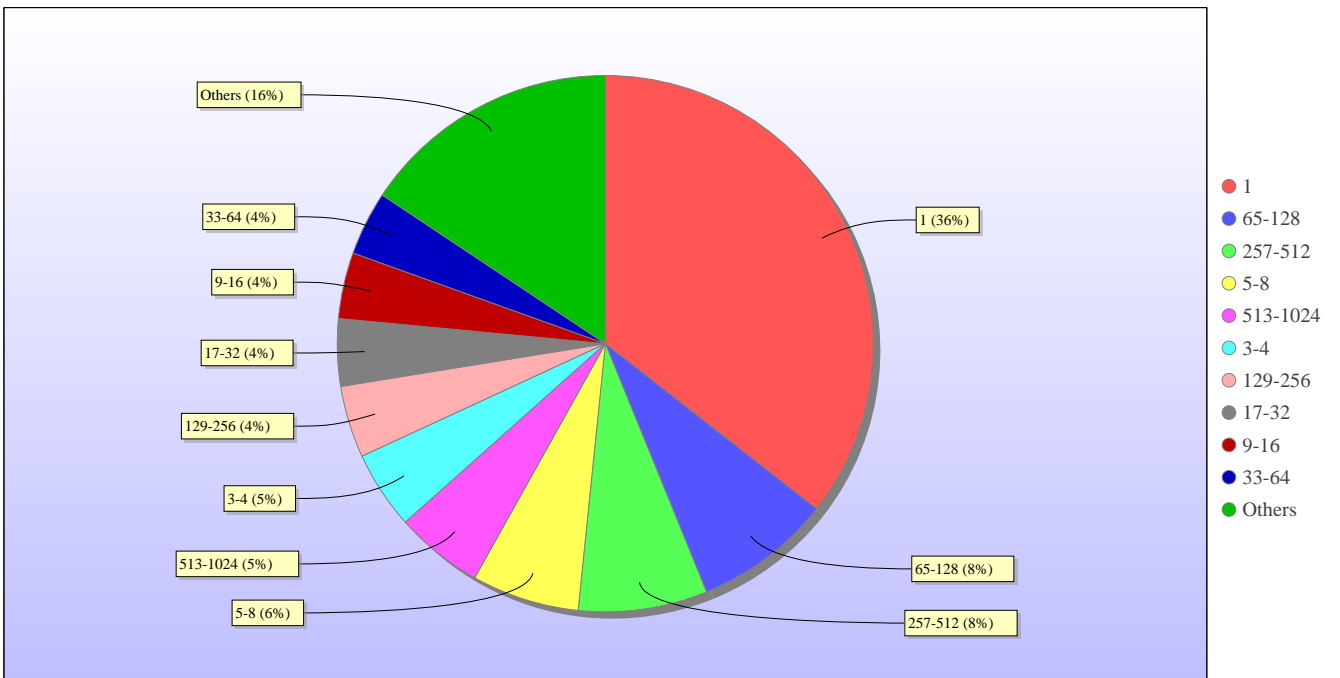
kAUs used by Size



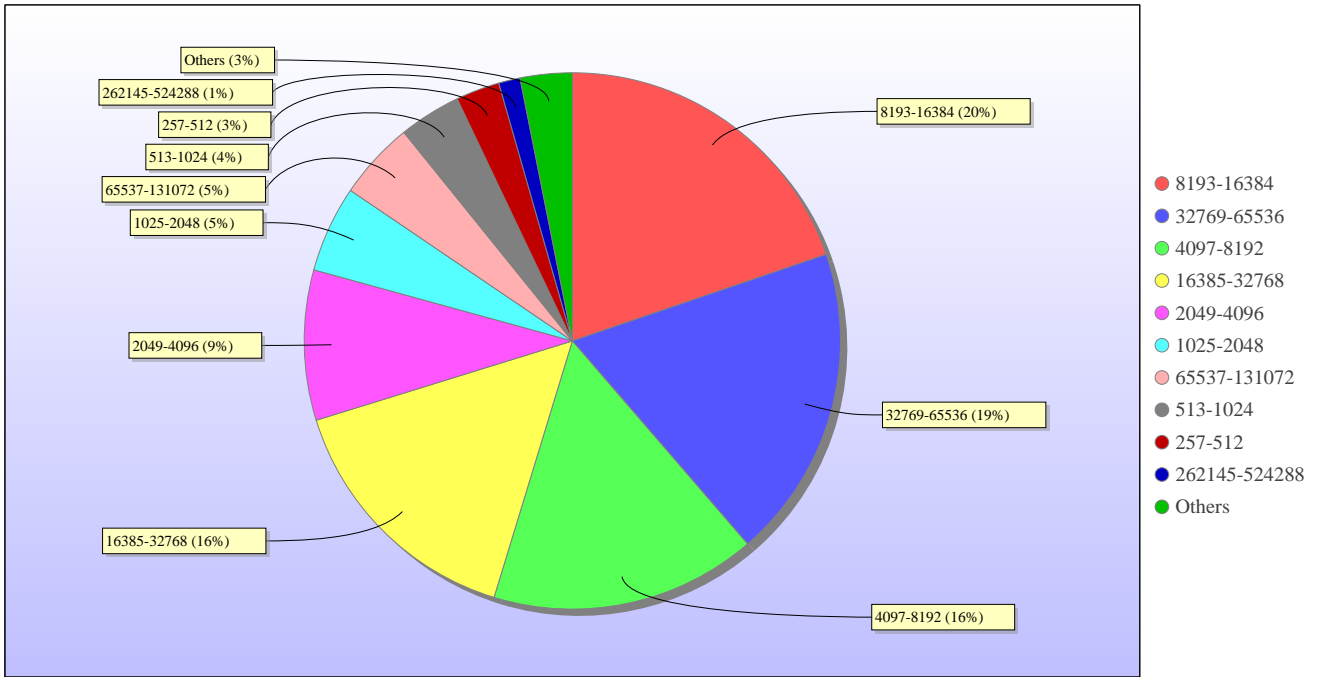
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

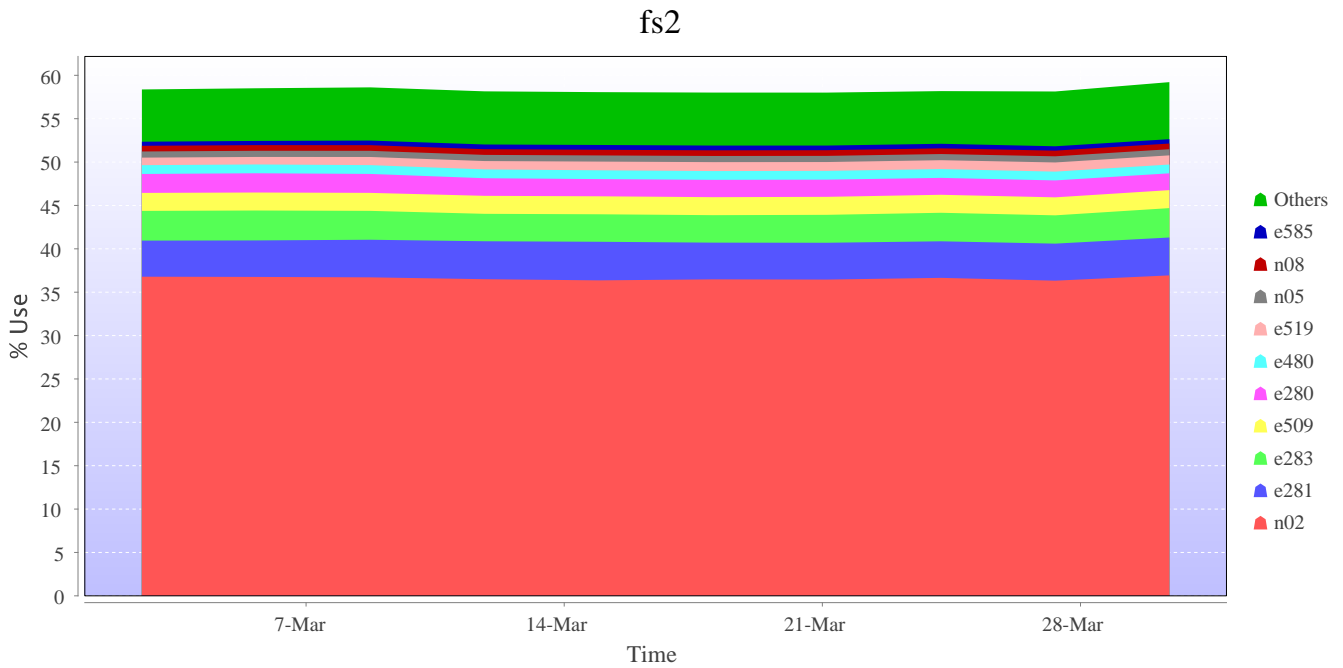


kAUs used grouped by core-hours

Disk usage

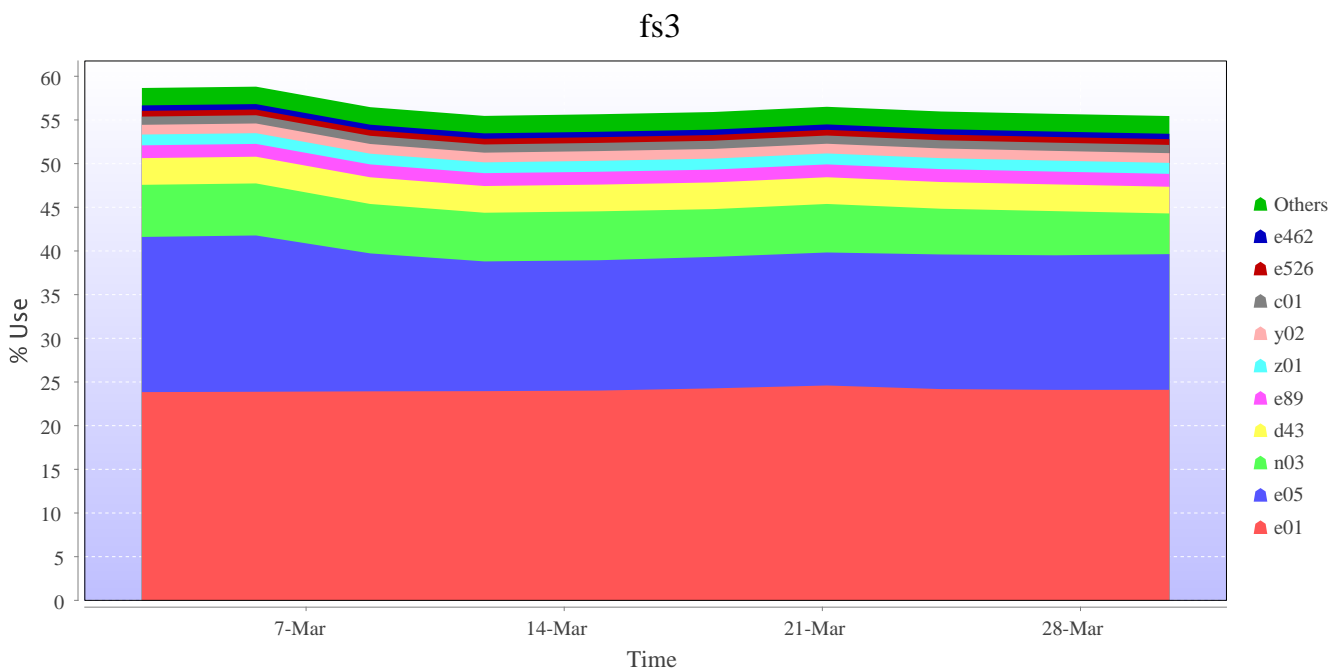
Disk usage for work (fs2)

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.



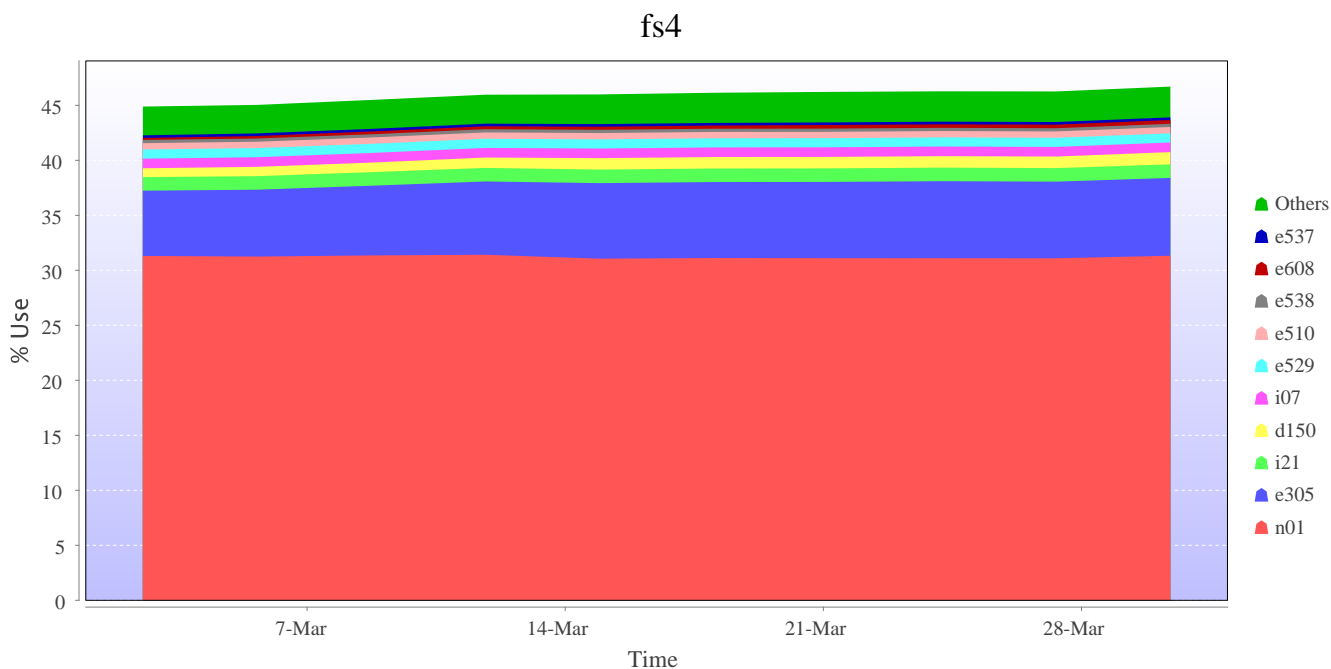
Disk usage for work (fs3)

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.



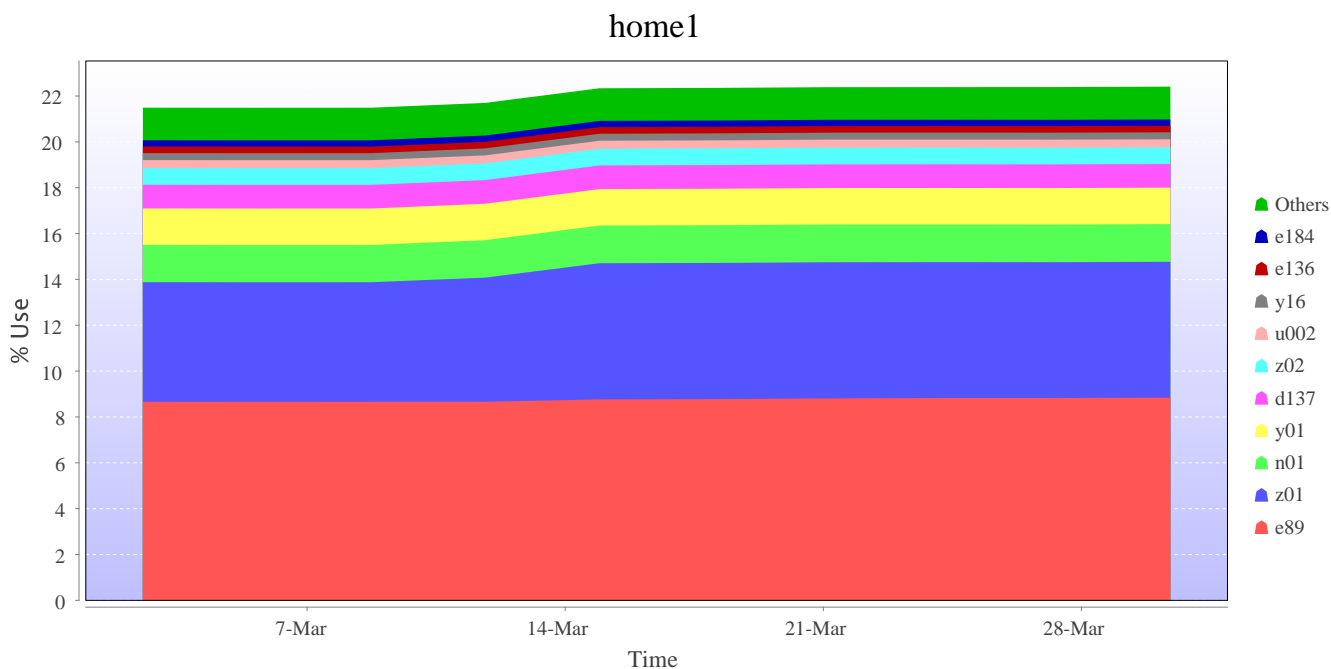
Disk usage for work (fs4)

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.



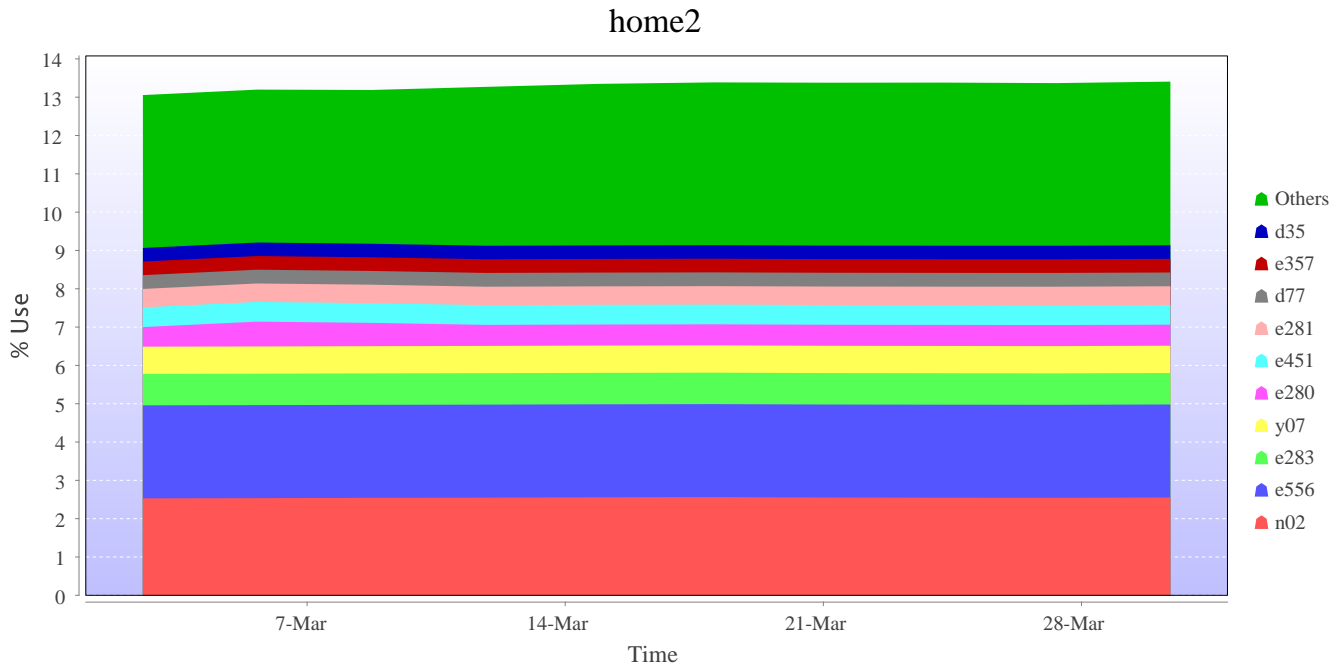
Disk usage for home (home1)

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.

