

Monthly Reporting

Report from 01 February 2019 to 28 February 2019

Report for Resource Pool XC on ARCHER

A total of 1,190,246.397 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.

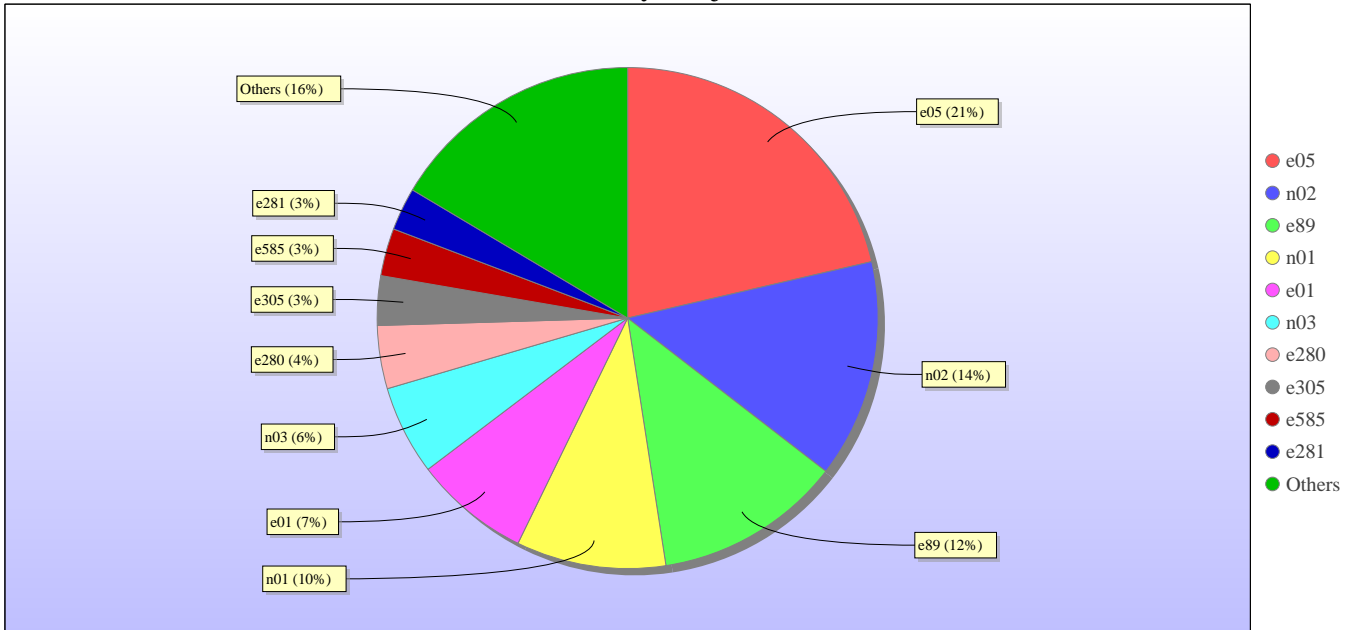
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
e526	Leadership Awards	47	19,179.3	1.61%	19,179.3	1.61%	1,358.4	0.11%
e572	Leadership Awards	113	2,255.1	0.19%	3,011.5	0.25%	2,769.9	0.23%
c01	Class1a	1,115	4,515.1	0.38%	4,515.1	0.38%	5,724.6	0.48%
e341	Class1a	1	76.0	0.01%	76.0	0.01%	1,923.1	0.16%
e365	Class1a	2	170.9	0.01%	170.9	0.01%	2,147.5	0.18%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	7,788.1	0.65%
e432	Class1a	136	4,558.3	0.38%	4,558.3	0.38%	5,890.6	0.49%
e448	Class1a	1,948	25,774.1	2.17%	25,780.6	2.17%	30,319.8	2.55%
e451	Class1a	49	1,672.6	0.14%	2,637.0	0.22%	3,420.1	0.29%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	464.0	0.04%
e515	Class1a	0	0.0	0.00%	0.0	0.00%	3,094.6	0.26%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	123.7	0.01%
e518	Class1a	6	752.3	0.06%	752.3	0.06%	1,230.8	0.10%
e519	Class1a	46	4,848.8	0.41%	5,986.6	0.50%	13,846.2	1.16%
e520	Class1a	48	5,451.3	0.46%	9,115.0	0.77%	2,246.7	0.19%
e523	Class1a	64	8,657.9	0.73%	12,303.6	1.03%	4,874.1	0.41%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	1,695.9	0.14%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	1,026.2	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	3,489.2	0.29%
e558	Class1a	21	2.6	0.00%	2.6	0.00%	690.4	0.06%
e569	Class1a	73	4,329.4	0.36%	4,329.4	0.36%	1,795.9	0.15%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	184.7	0.02%
e575	Class1a	98	2,921.3	0.25%	2,922.0	0.25%	2,165.2	0.18%
e580	Class1a	2	28.9	0.00%	28.9	0.00%	2,247.7	0.19%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	1,257.7	0.11%
e588	Class1a	8	277.1	0.02%	277.1	0.02%	1,835.9	0.15%
e605	Class1a	12	287.3	0.02%	287.3	0.02%	1,020.8	0.09%
e606	Class1a	260	1,211.5	0.10%	1,211.5	0.10%	3,938.3	0.33%
e607	Class1a	6	0.2	0.00%	0.2	0.00%	4,615.4	0.39%
e608	Class1a	162	2,280.2	0.19%	2,280.3	0.19%	3,847.0	0.32%
e609	Class1a	60	3.3	0.00%	3.3	0.00%	8,461.5	0.71%
e610	Class1a	128	153.1	0.01%	153.1	0.01%	6,962.9	0.58%
e611	Class1a	32	937.2	0.08%	937.2	0.08%	1,005.8	0.08%
e613	Class1a	35	1,624.7	0.14%	1,624.7	0.14%	923.3	0.08%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	195.0	0.02%
e01	Consortia	1,240	55,116.2	4.63%	76,808.1	6.45%	72,023.8	6.05%
e05	Consortia	8,947	186,057.5	15.63%	219,887.2	18.47%	167,962.1	14.11%
e89	Consortia	4,631	113,145.1	9.51%	124,249.4	10.44%	109,504.6	9.20%
e280	Consortia	15,142	41,913.1	3.52%	41,913.5	3.52%	49,509.7	4.16%
e281	Consortia	1,044	25,994.9	2.18%	28,399.2	2.39%	19,486.5	1.64%

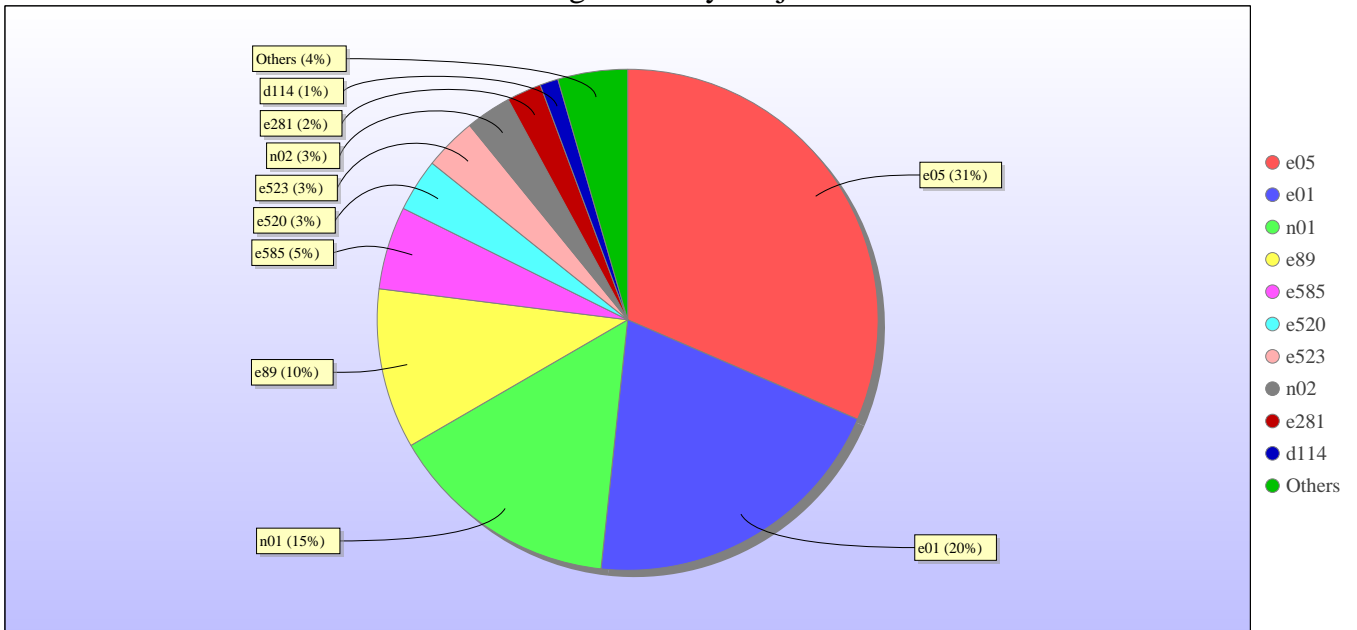
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e283	Consortia	1,227	2,626.2	0.22%	2,651.6	0.22%	12,032.0	1.01%
e305	Consortia	871	32,019.5	2.69%	32,784.2	2.75%	37,505.5	3.15%
e585	Consortia	470	25,852.7	2.17%	31,603.5	2.66%	23,076.9	1.94%
e348	Direct Access: ARCHER RAP	197	3,777.2	0.32%	3,777.2	0.32%	4,841.6	0.41%
e590	Direct Access: ARCHER RAP	46	1,161.0	0.10%	1,161.0	0.10%	3,660.2	0.31%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,481.5	0.29%
e595	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,063.2	0.26%
e596	Direct Access: ARCHER RAP	88	1,236.0	0.10%	1,236.0	0.10%	1,189.5	0.10%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,036.5	0.26%
e601	Direct Access: ARCHER RAP	15	350.1	0.03%	350.1	0.03%	4,268.6	0.36%
e602	Direct Access: ARCHER RAP	18	773.0	0.06%	773.0	0.06%	1,696.7	0.14%
e603	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,827.9	0.24%
e614	Direct Access: ARCHER RAP	381	317.2	0.03%	317.2	0.03%	4,616.4	0.39%
e616	Direct Access: ARCHER RAP	287	133.9	0.01%	133.9	0.01%	1,203.2	0.10%
e617	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	6,882.9	0.58%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,120.9	0.18%
e619	Direct Access: ARCHER RAP	1	0.0	0.00%	0.0	0.00%	855.0	0.07%
e620	Direct Access: ARCHER RAP	81	3,853.3	0.32%	3,863.7	0.32%	6,022.7	0.51%
e622	Direct Access: ARCHER RAP	135	7,731.9	0.65%	7,731.9	0.65%	2,617.8	0.22%
e582	Instant Access	87	43.3	0.00%	43.3	0.00%	710.9	0.06%
e592	Instant Access	0	0.0	0.00%	0.0	0.00%	130.7	0.01%
e600	Instant Access	0	0.0	0.00%	0.0	0.00%	84.8	0.01%
e624	Instant Access	0	0.0	0.00%	0.0	0.00%	6.7	0.00%
e573	Training	17	83.0	0.01%	83.0	0.01%	1,732.1	0.15%
e589	Training	1,103	1,303.3	0.11%	1,303.8	0.11%	2,754.1	0.23%
e604	Training	826	1,591.7	0.13%	1,597.2	0.13%	1,724.7	0.14%
e612	Training	135	1,293.0	0.11%	1,293.0	0.11%	1,385.7	0.12%
y16	Service	0	0.0	0.00%	0.0	0.00%	127.9	0.01%
z17	Service	82	8,632.1	0.73%	8,632.1	0.73%	3,094.6	0.26%
EPSRC Total		41,543	606,973.9	51.00%	692,736.9	58.20%	689,818.7	57.96%
n01	Consortia	5,016	83,285.1	7.00%	99,332.5	8.35%	98,575.3	8.28%
n02	Consortia	33,331	142,423.9	11.97%	144,913.1	12.18%	154,958.9	13.02%
n03	Consortia	6,749	58,301.0	4.90%	59,308.6	4.98%	81,315.1	6.83%
NERC Total		45,096	284,010.0	23.86%	303,554.3	25.50%	334,849.3	28.13%
e621	Leadership Awards	0	0.0	0.00%	0.0	0.00%	3,636.2	0.31%
e568	Research	0	0.0	0.00%	0.0	0.00%	3,210.0	0.27%
BBSRC Total		0	0.0	0.00%	0.0	0.00%	6,846.2	0.58%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	153.4	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%	769.0	0.06%
pr1utd02	DECI: EXEC	6	44.1	0.00%	73.6	0.01%	120.9	0.01%
PRACE Total		6	44.1	0.00%	73.6	0.01%	1,043.7	0.09%
ecse0910	eCSE	2	0.0	0.00%	0.0	0.00%	46.1	0.00%
ecse1012	eCSE	1	0.2	0.00%	0.2	0.00%	36.3	0.00%
ecse1303	eCSE	0	0.0	0.00%	0.0	0.00%	43.2	0.00%
ecse1307	eCSE	0	0.0	0.00%	0.0	0.00%	43.2	0.00%
ecse1320	eCSE	92	0.0	0.00%	0.0	0.00%	40.7	0.00%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
eCSE Total		95	0.2	0.00%	0.2	0.00%	209.5	0.02%
d43	ECDF	0	0.0	0.00%	0.0	0.00%	767.1	0.06%
d56	Research	975	3,190.6	0.27%	3,190.6	0.27%	6,189.3	0.52%
d67	Research	0	0.0	0.00%	0.0	0.00%	153.4	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d114	Research	523	11,287.2	0.95%	12,547.8	1.05%	10,219.2	0.86%
d118	Research	123	183.6	0.02%	183.6	0.02%	76.7	0.01%
d137	Research	11	0.1	0.00%	0.1	0.00%	2,301.4	0.19%
d142	Research	94	218.4	0.02%	333.7	0.03%	1,304.1	0.11%
d143	Research	13	366.9	0.03%	366.9	0.03%	2,307.7	0.19%
d149	Research	272	1,674.5	0.14%	1,674.5	0.14%	354.4	0.03%
d150	Research	53	6,752.8	0.57%	6,752.8	0.57%	7,427.1	0.62%
d155	Research	555	3,886.1	0.33%	3,886.1	0.33%	1,278.5	0.11%
d166	Research	64	1,345.1	0.11%	1,345.1	0.11%	625.2	0.05%
d170	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d426	Research	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
d153	Industrial	577	822.5	0.07%	823.5	0.07%	920.5	0.08%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	20.5	0.00%
d168	Industrial	0	0.0	0.00%	0.0	0.00%	76.7	0.01%
i01	Industrial	13	208.6	0.02%	208.6	0.02%	43.8	0.00%
i18	Industrial	2	8.8	0.00%	8.8	0.00%	2,648.9	0.22%
i21	Industrial	5	362.9	0.03%	241.9	0.02%	7,671.2	0.64%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	63.2	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	115.1	0.01%
i234	Industrial	0	0.0	0.00%	0.0	0.00%	83.6	0.01%
x08	Industrial	11	79.5	0.01%	79.5	0.01%	767.1	0.06%
d74	Training	1,954	17.0	0.00%	17.0	0.00%	153.4	0.01%
d104	Training	413	31.7	0.00%	31.7	0.00%	102.6	0.01%
d167	Training	142	75.9	0.01%	58.6	0.00%	153.4	0.01%
d131	Service	61	28.1	0.00%	28.5	0.00%	230.1	0.02%
d134	Service	0	0.0	0.00%	0.0	0.00%	7.7	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	102.6	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	7.7	0.00%
y02	Service	8	20.7	0.00%	20.7	0.00%	76.7	0.01%
y07	Service	44	0.0	0.00%	2.3	0.00%	7.7	0.00%
y21	Service	0	0.0	0.00%	0.0	0.00%	383.6	0.03%
z02	Service	0	0.0	0.00%	0.0	0.00%	3.8	0.00%
z99	Service	22	0.2	0.00%	0.2	0.00%	7.7	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	2,301.4	0.19%
DirectorsTime Total		5,935	30,561.4	2.57%	31,802.8	2.67%	49,030.0	4.12%
y14	Training	0	0.0	0.00%	0.0	0.00%	537.0	0.05%
z19	Service	201	212.1	0.02%	213.1	0.02%	3,835.6	0.32%
CSE Total		201	212.1	0.02%	213.1	0.02%	4,372.6	0.37%
Total		92,876	921,801.7	77.45%	1,028,380.9	86.40%	1,086,170.0	91.26%

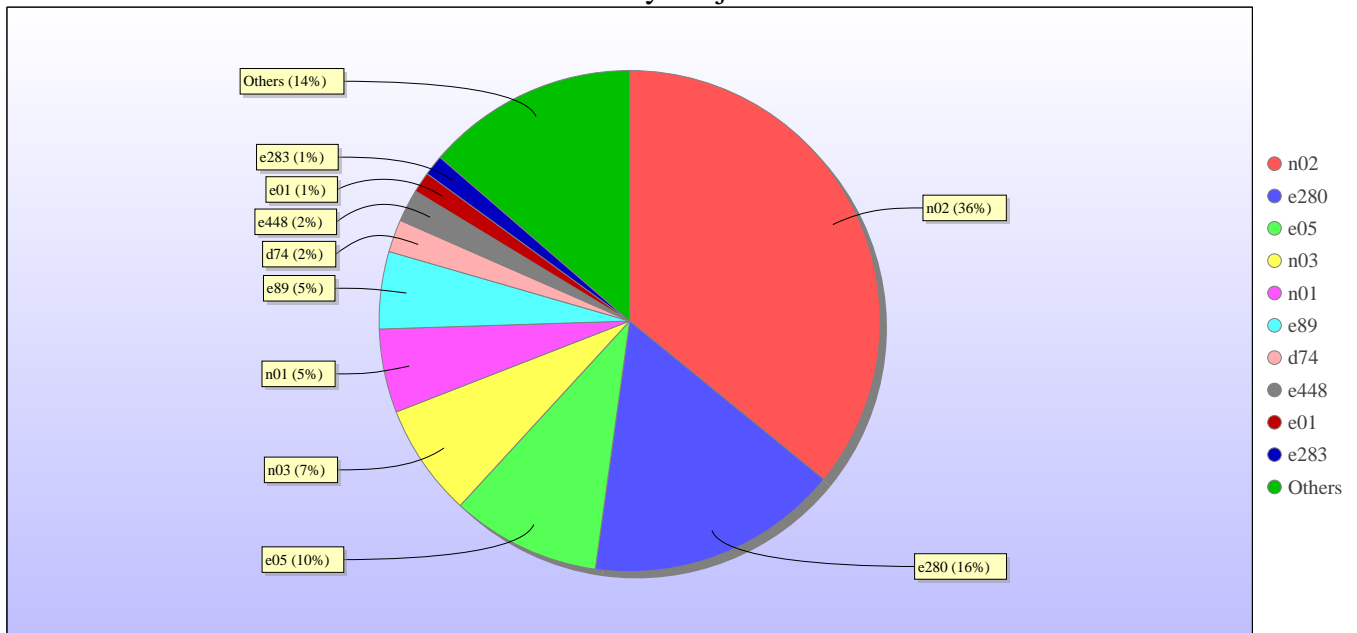
Use by Project



Uncharged Use by Project



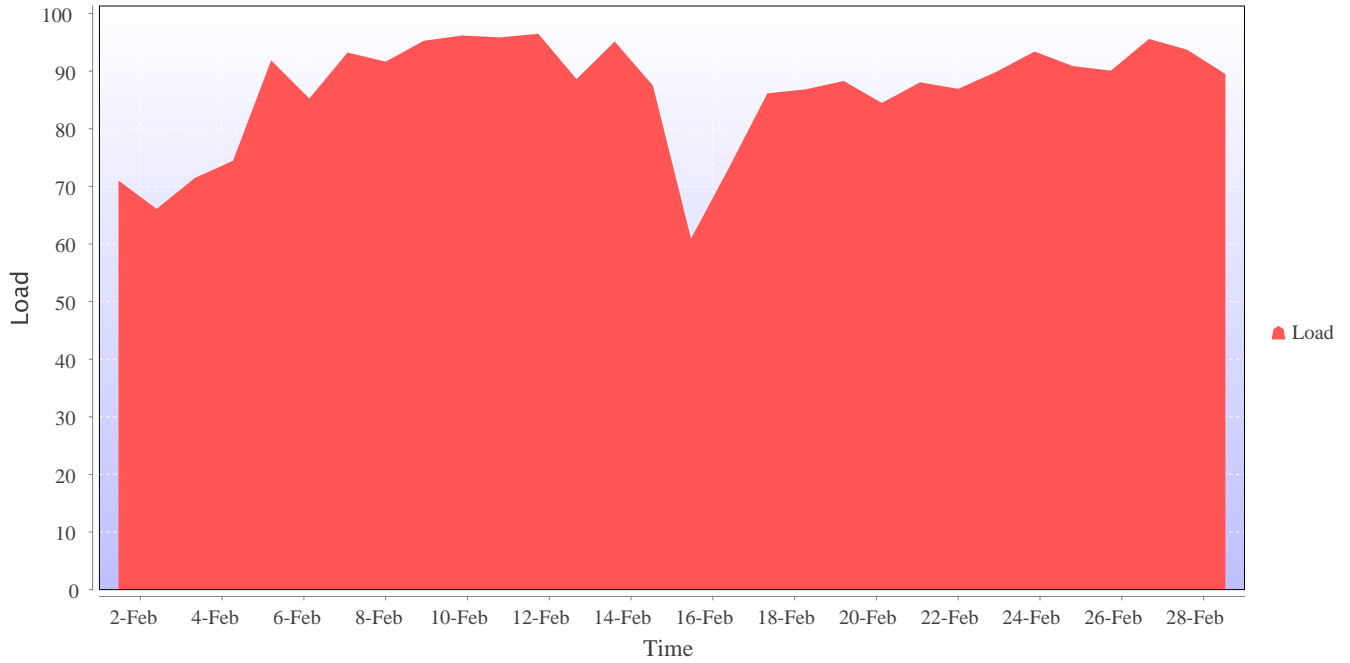
Jobs by Project



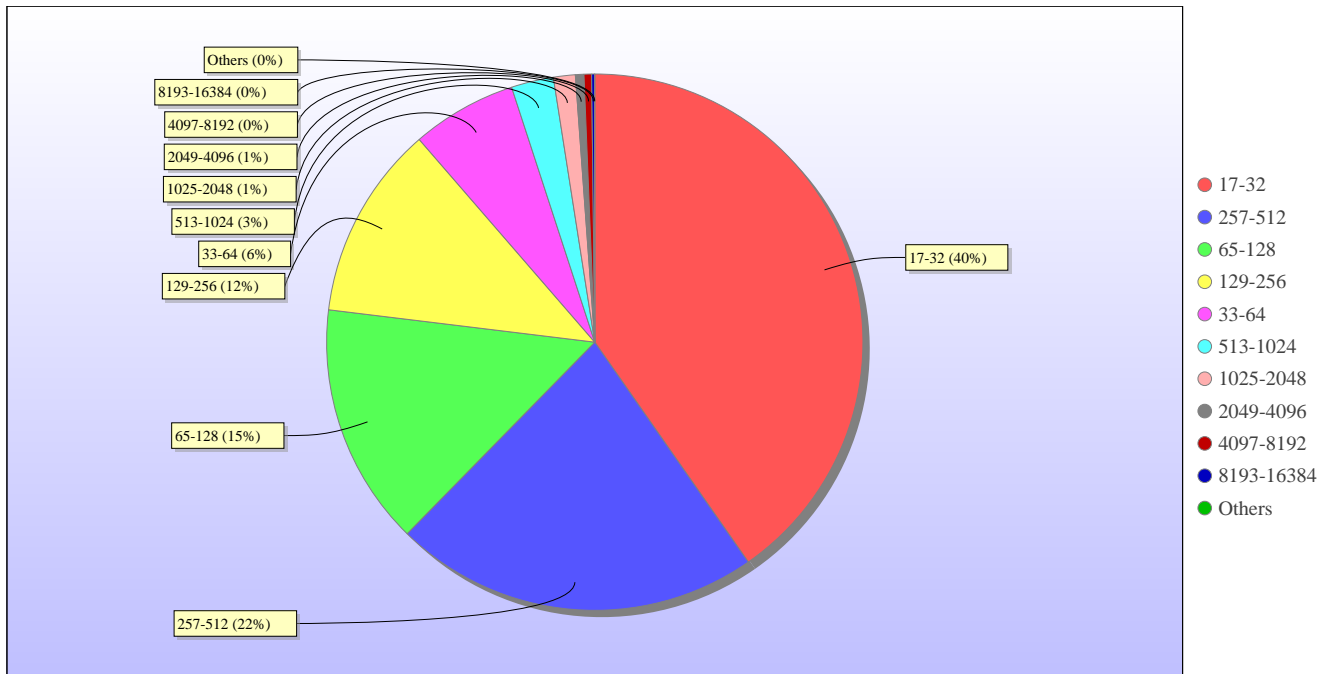
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	8,692.454	37,425
33-64	11,348.036	5,888
65-128	54,608.632	13,552
129-256	154,509.946	10,877
257-512	203,410.832	20,467
513-1024	120,730.607	2,366
1025-2048	115,690.435	1,223
2049-4096	94,024.693	476
4097-8192	71,331.165	423
8193-16384	84,475.429	160
16385-32768	268.985	12
32769-65536	254.566	2

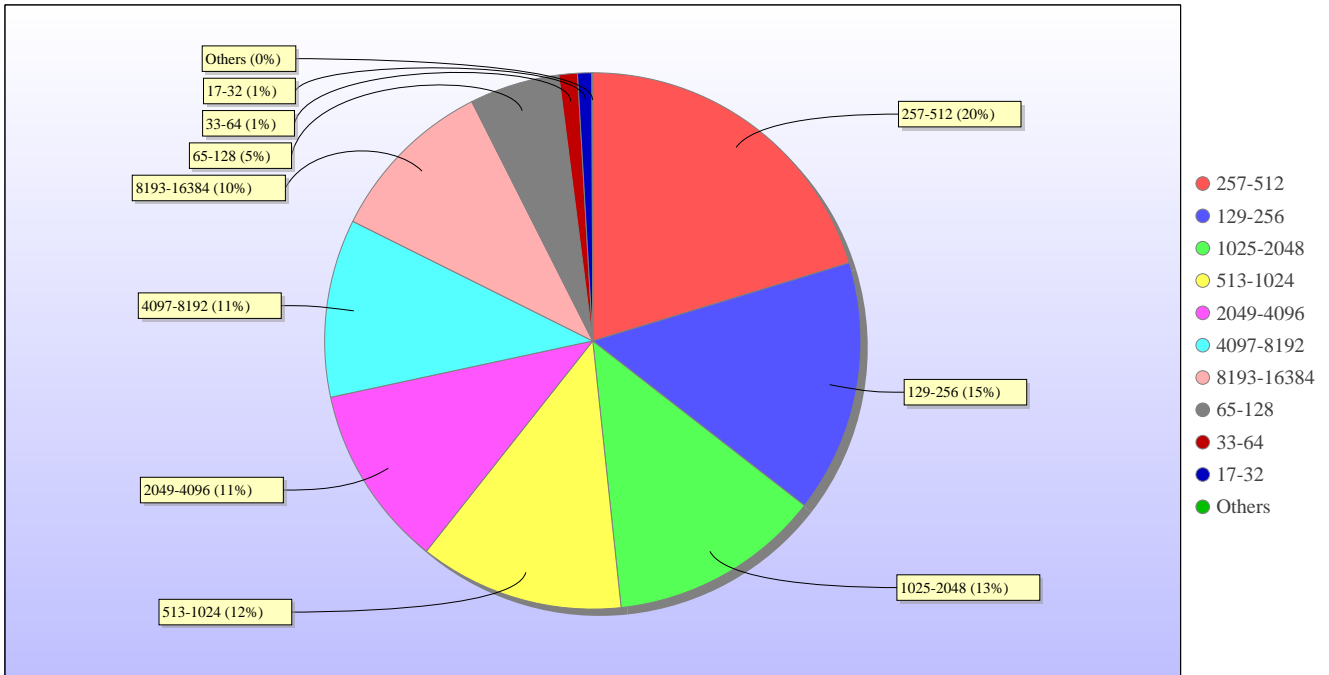
Load plots



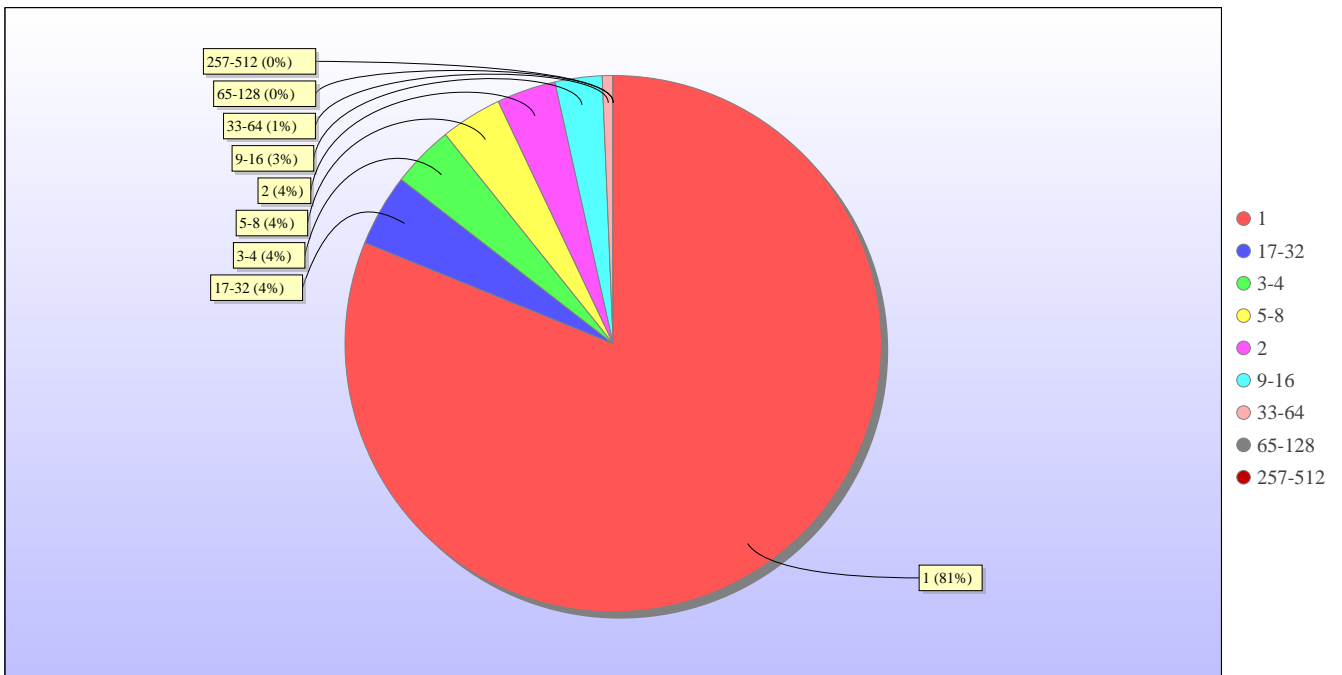
Percentage load on machine



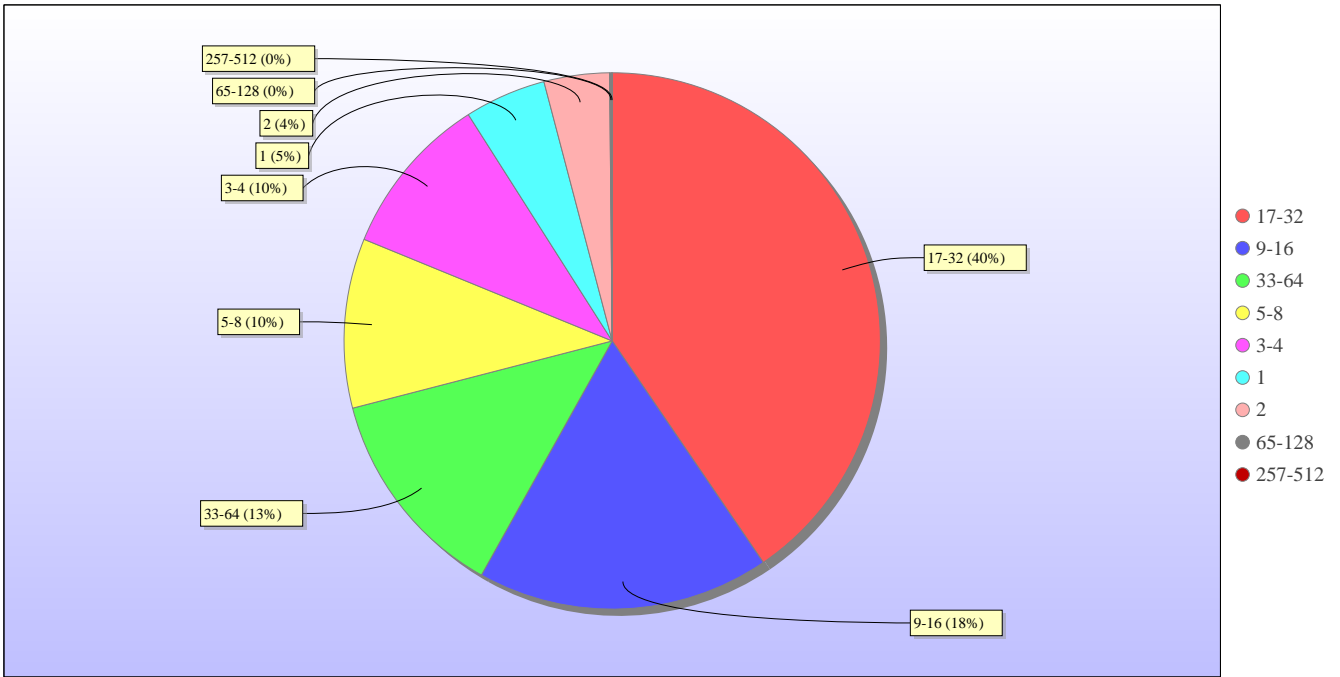
Jobs by Size



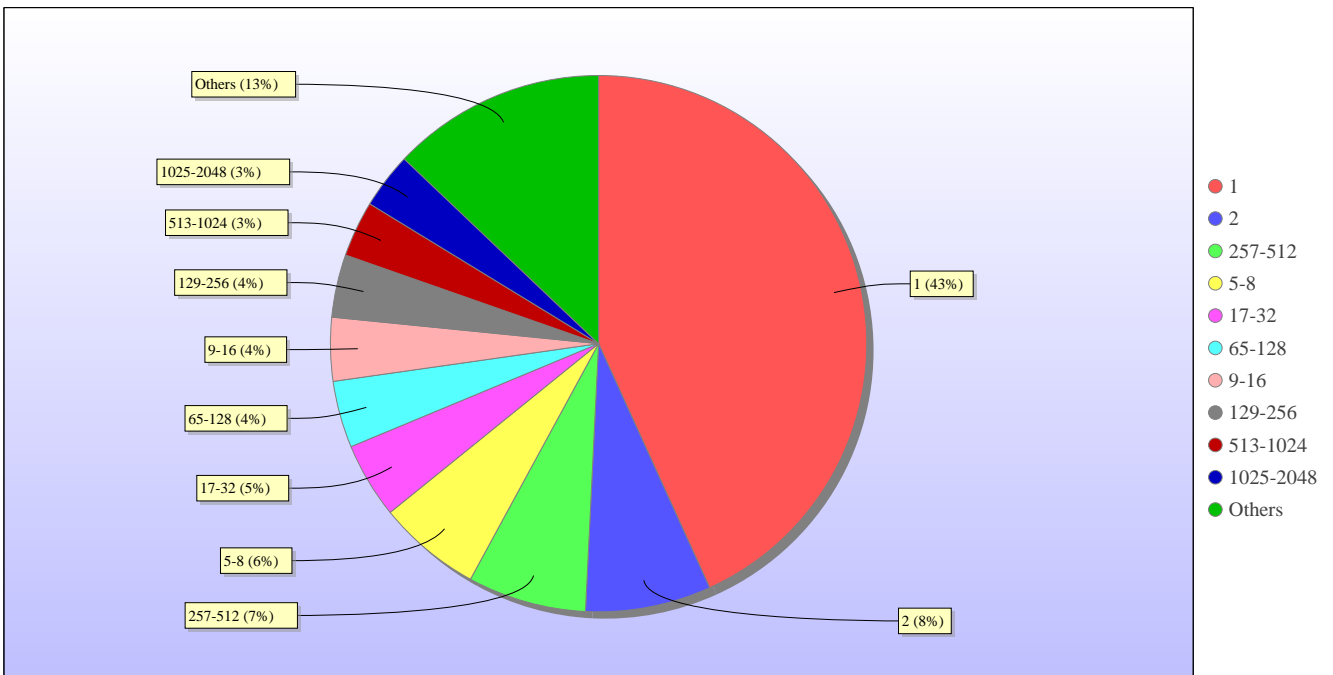
kAUs used by Size



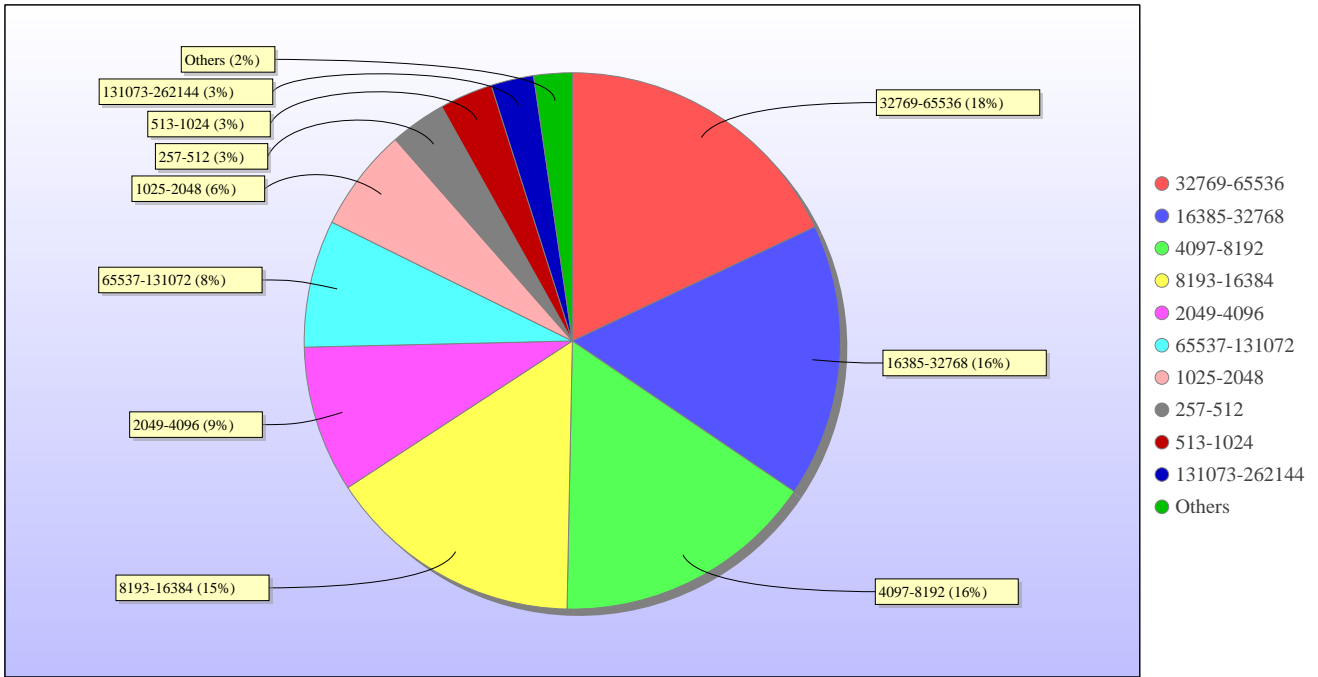
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

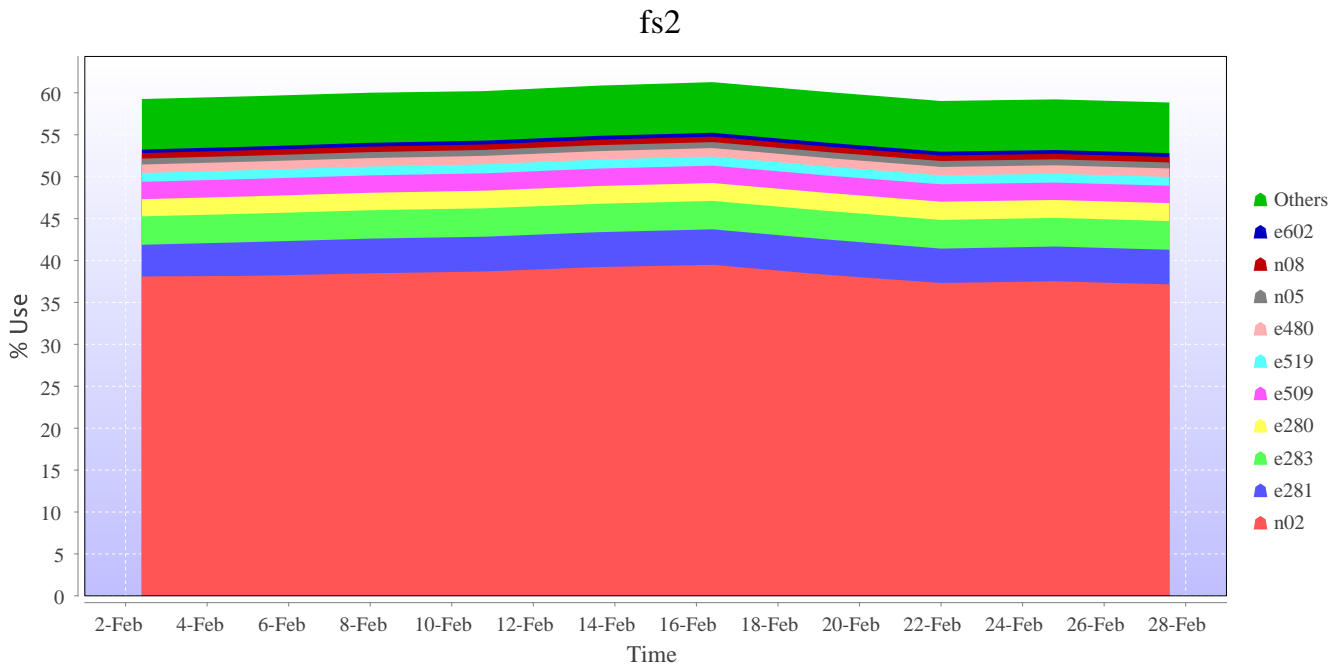


kAUs used grouped by core-hours

Disk usage

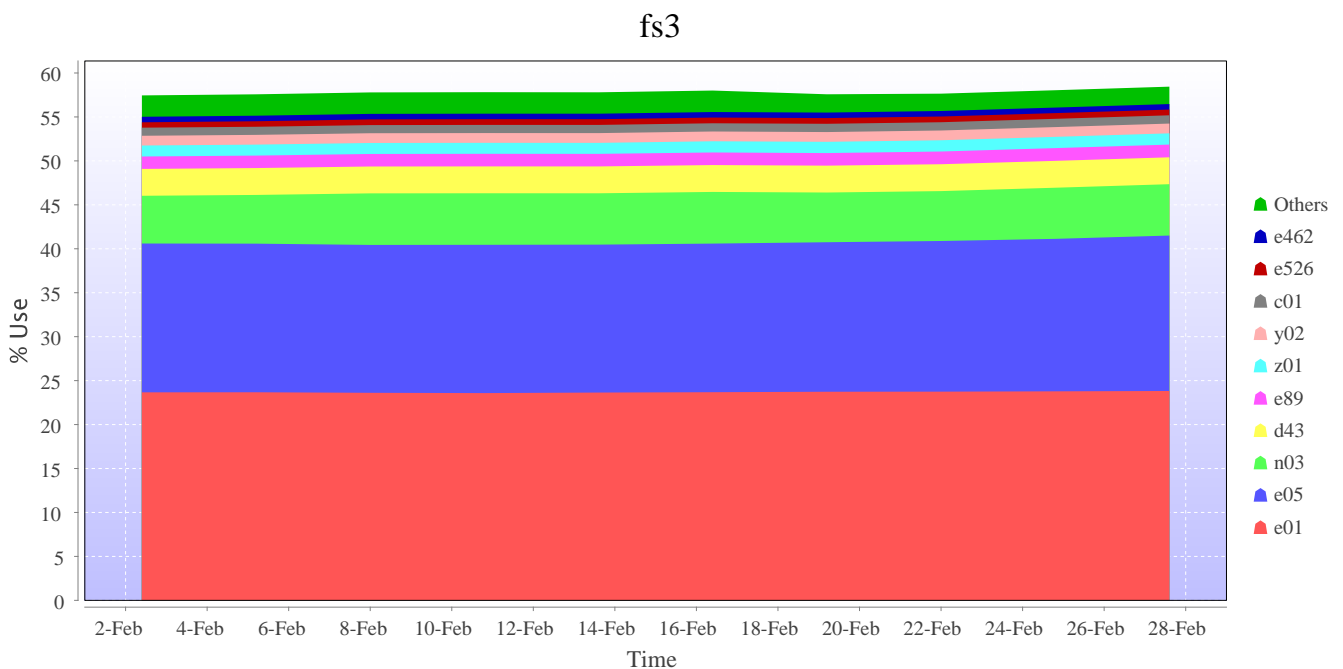
Disk usage for work (fs2)

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.



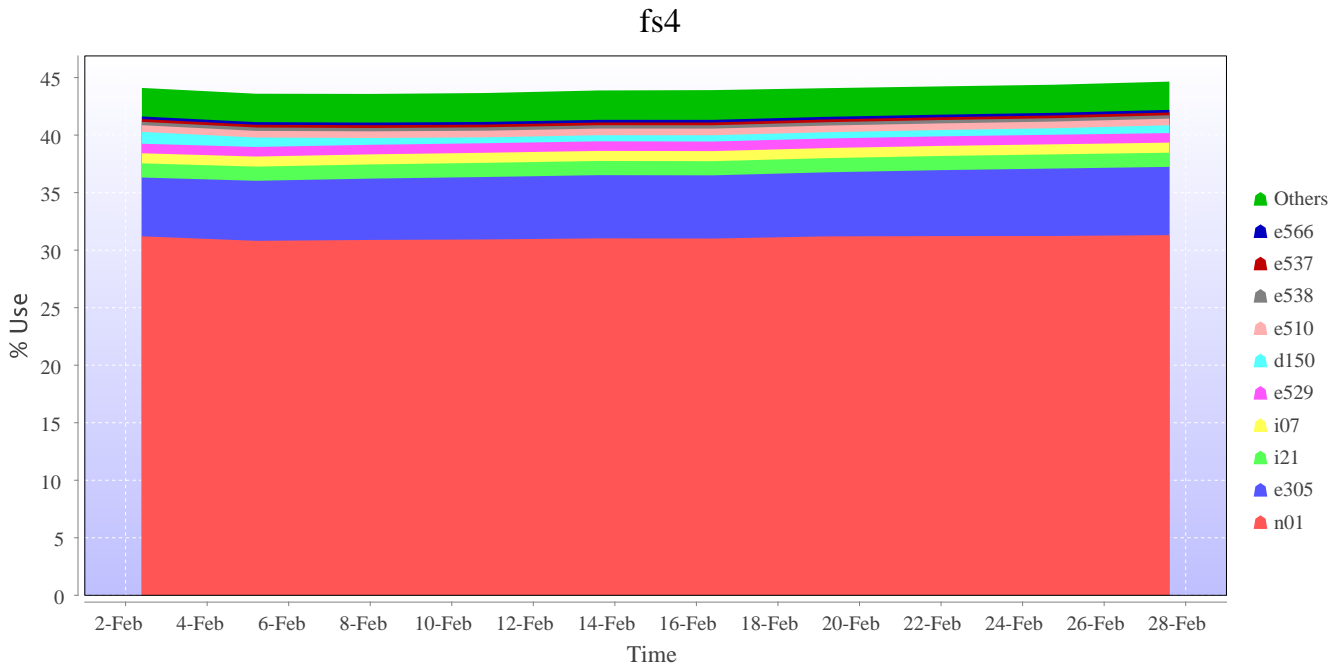
Disk usage for work (fs3)

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.



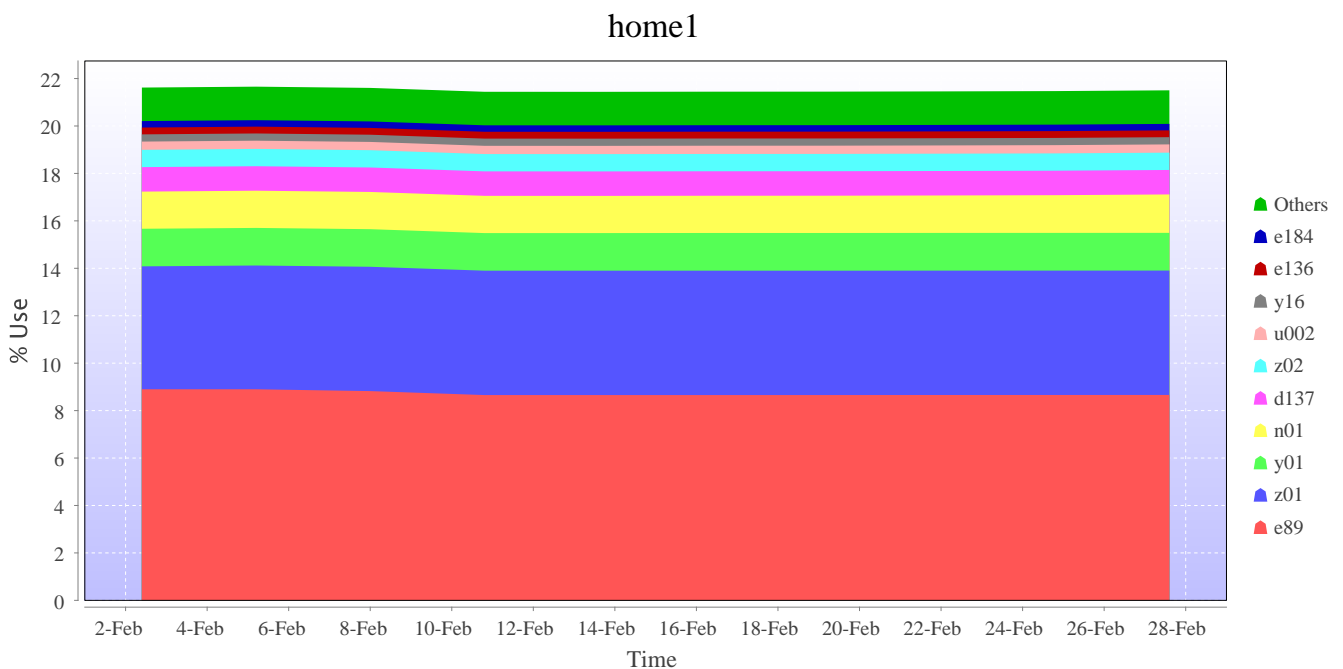
Disk usage for work (fs4)

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.



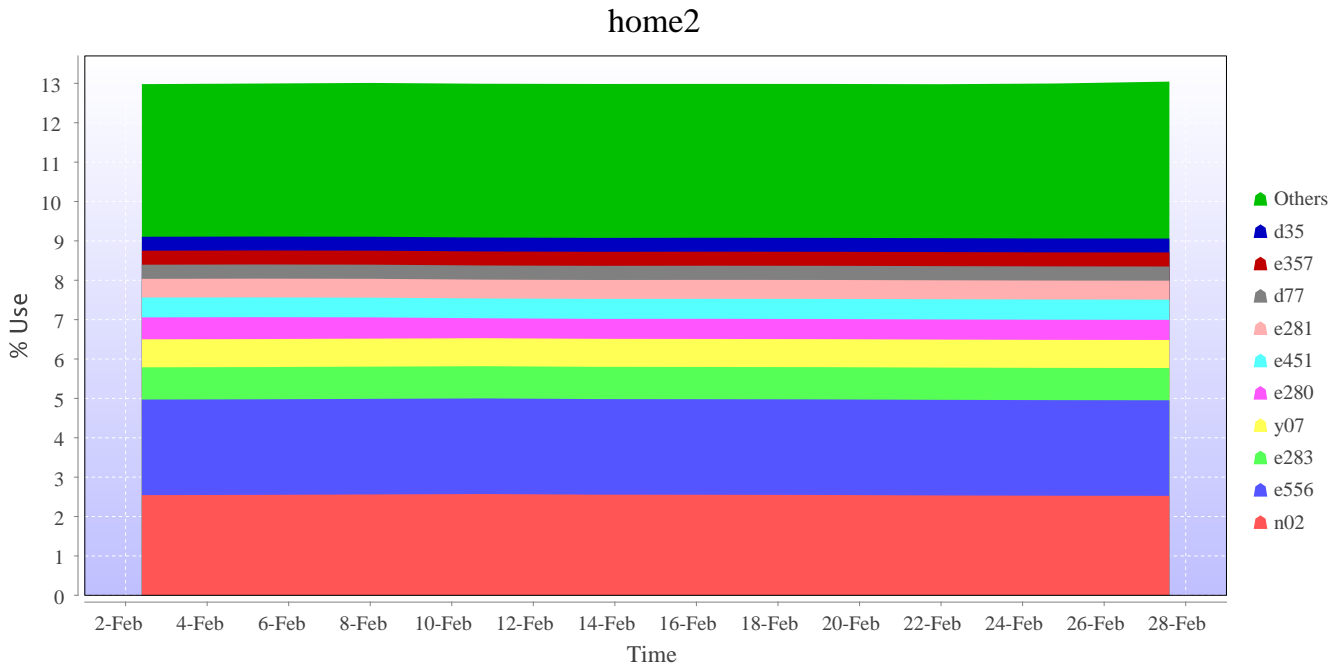
Disk usage for home (home1)

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.



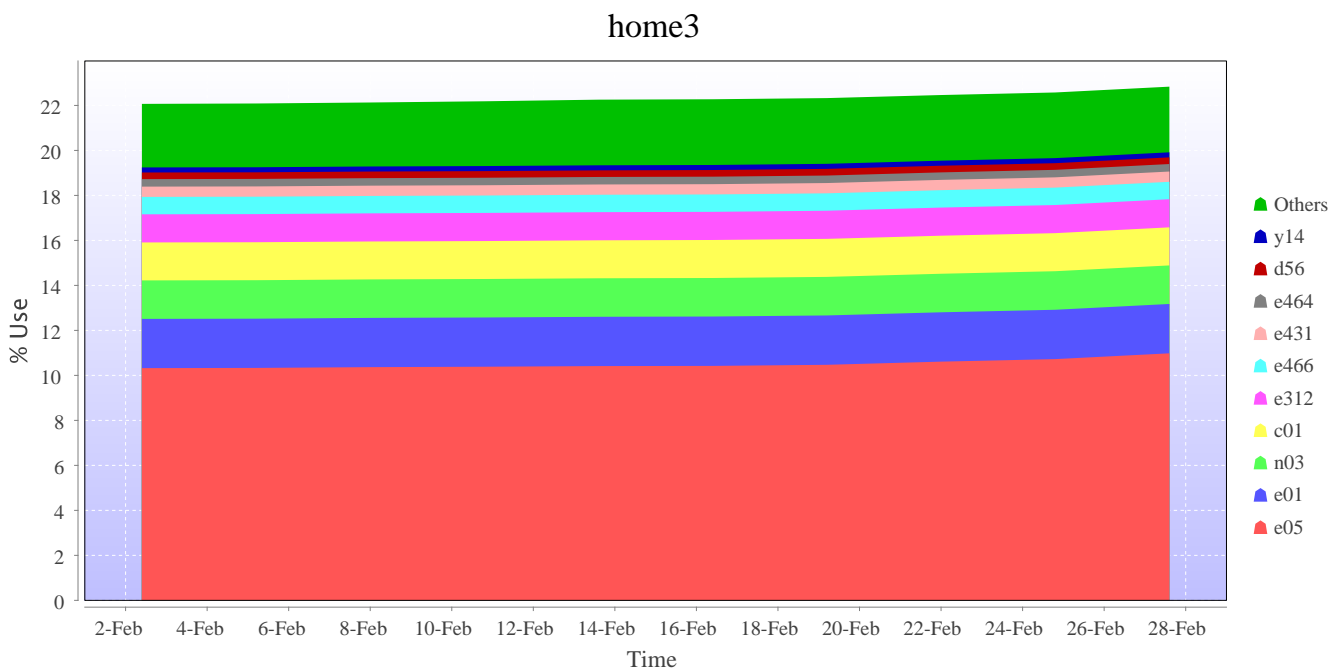
Disk usage for home (home2)

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.

