

Monthly Reporting

Report from 01 January 2019 to 31 March 2019

Report for Resource Pool XC on ARCHER

A total of 3,824,020.79 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.

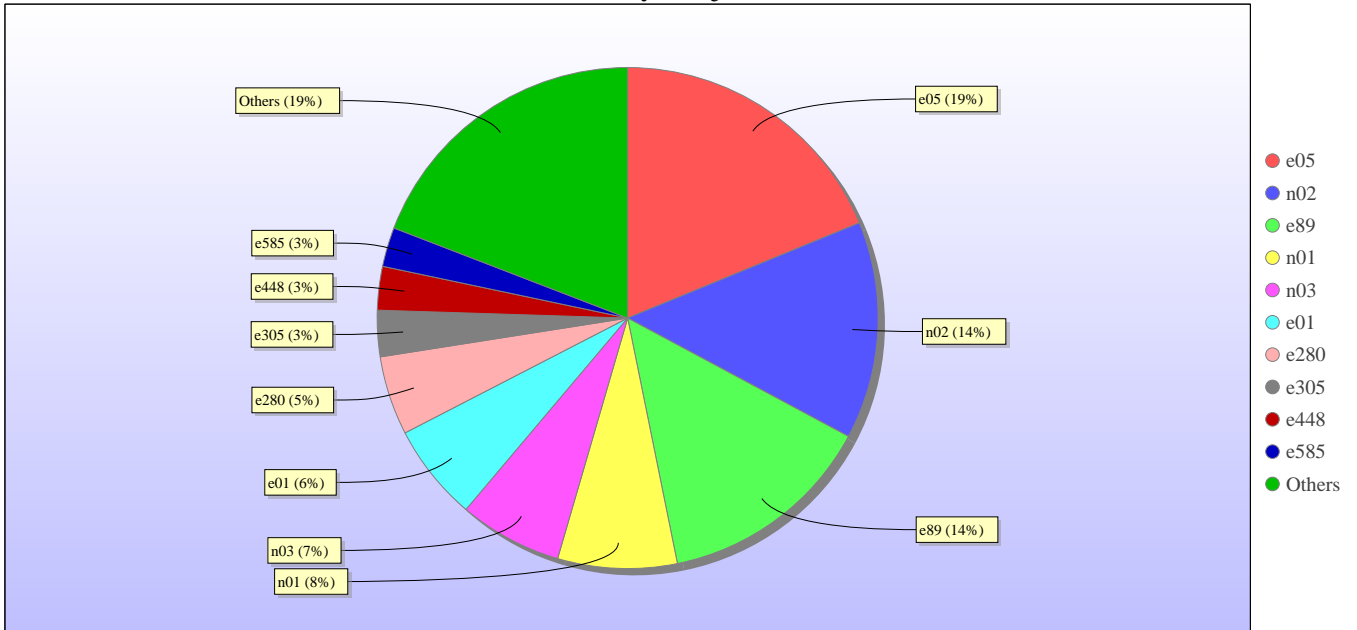
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
e464	Leadership Awards	251	1,531.4	0.04%	1,531.4	0.04%	0.0	0.00%
e526	Leadership Awards	267	49,215.3	1.29%	49,215.3	1.29%	9,780.4	0.26%
e572	Leadership Awards	1,146	12,822.7	0.34%	16,379.5	0.43%	8,899.0	0.23%
c01	Class1a	2,512	16,372.5	0.43%	16,372.5	0.43%	18,391.8	0.48%
e341	Class1a	15	547.2	0.01%	547.2	0.01%	6,178.5	0.16%
e365	Class1a	34	728.6	0.02%	728.6	0.02%	6,899.3	0.18%
e403	Class1a	35	4,030.6	0.11%	4,030.6	0.11%	25,021.4	0.65%
e432	Class1a	440	22,667.8	0.59%	22,667.8	0.59%	18,925.4	0.49%
e448	Class1a	7,830	92,024.2	2.41%	92,030.7	2.41%	97,411.5	2.55%
e451	Class1a	143	3,251.5	0.09%	4,215.9	0.11%	7,690.1	0.20%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	1,314.3	0.03%
e515	Class1a	0	0.0	0.00%	0.0	0.00%	8,200.6	0.21%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	361.7	0.01%
e518	Class1a	63	8,005.6	0.21%	8,005.7	0.21%	3,954.2	0.10%
e519	Class1a	435	57,772.7	1.51%	59,612.1	1.56%	44,484.9	1.16%
e520	Class1a	59	7,681.2	0.20%	12,723.8	0.33%	7,218.1	0.19%
e523	Class1a	198	23,221.9	0.61%	31,684.9	0.83%	15,659.3	0.41%
e527	Class1a	79	839.6	0.02%	839.6	0.02%	5,430.7	0.14%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	3,296.8	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	11,210.2	0.29%
e558	Class1a	39	331.7	0.01%	331.7	0.01%	2,218.2	0.06%
e569	Class1a	214	11,600.1	0.30%	11,648.0	0.30%	5,738.4	0.15%
e571	Class1a	3	17.3	0.00%	17.3	0.00%	593.3	0.02%
e575	Class1a	346	9,968.0	0.26%	9,971.0	0.26%	7,423.4	0.19%
e580	Class1a	52	477.5	0.01%	477.5	0.01%	7,224.3	0.19%
e584	Class1a	89	1.3	0.00%	1.3	0.00%	4,865.3	0.13%
e588	Class1a	154	7,513.0	0.20%	7,513.0	0.20%	5,898.5	0.15%
e605	Class1a	140	4,468.8	0.12%	4,478.3	0.12%	3,629.2	0.09%
e606	Class1a	494	12,349.8	0.32%	12,349.8	0.32%	11,713.5	0.31%
e607	Class1a	6	0.2	0.00%	0.2	0.00%	14,828.3	0.39%
e608	Class1a	312	12,712.5	0.33%	14,903.3	0.39%	12,359.7	0.32%
e609	Class1a	365	129.9	0.00%	129.9	0.00%	27,185.2	0.71%
e610	Class1a	341	5,702.7	0.15%	5,702.7	0.15%	22,370.5	0.58%
e611	Class1a	33	939.4	0.02%	939.4	0.02%	3,231.3	0.08%
e613	Class1a	70	5,903.6	0.15%	5,903.6	0.15%	2,966.3	0.08%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	620.0	0.02%
e01	Consortia	3,547	152,451.1	3.99%	204,694.2	5.35%	231,397.8	6.05%
e05	Consortia	37,956	518,758.0	13.57%	614,935.0	16.08%	539,628.2	14.11%
e89	Consortia	12,681	393,820.0	10.30%	457,669.5	11.97%	349,896.5	9.15%

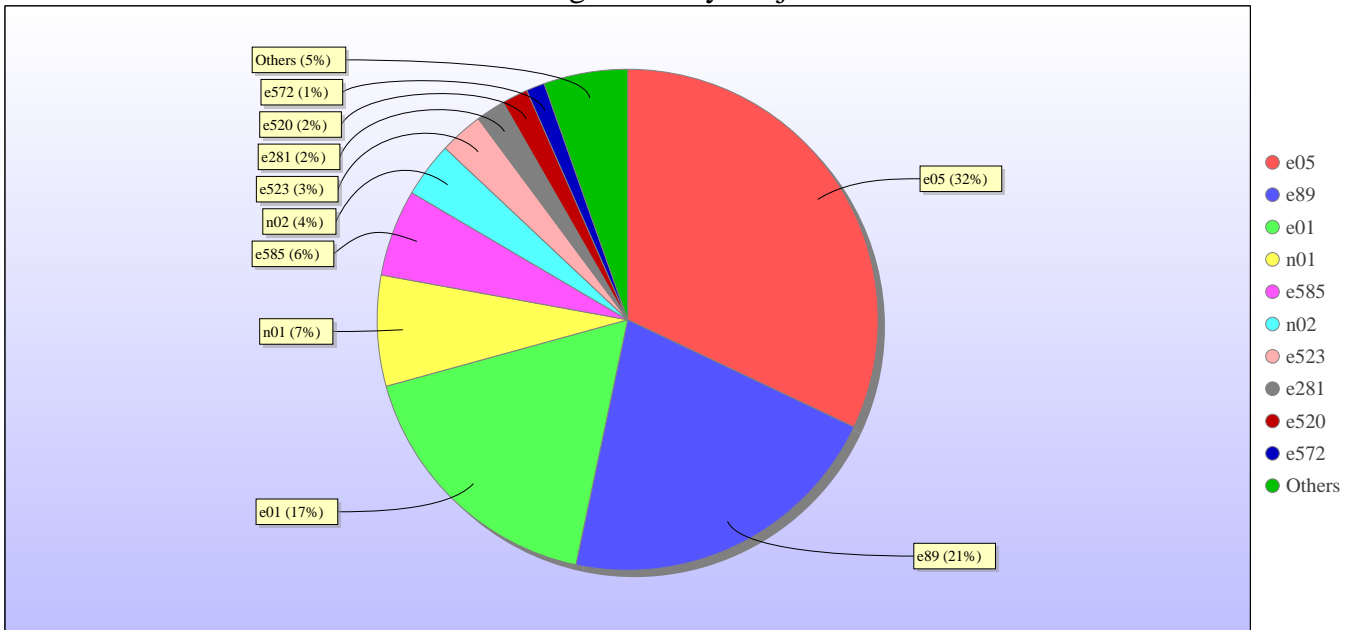
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e280	Consortia	24,731	166,480.9	4.35%	166,876.5	4.36%	159,064.6	4.16%
e281	Consortia	6,251	66,067.9	1.73%	71,748.3	1.88%	62,606.1	1.64%
e283	Consortia	3,906	34,735.4	0.91%	34,795.2	0.91%	38,656.3	1.01%
e305	Consortia	2,695	95,416.8	2.50%	97,559.1	2.55%	120,497.6	3.15%
e585	Consortia	1,516	66,305.5	1.73%	83,110.7	2.17%	74,141.5	1.94%
e348	Direct Access: ARCHER RAP	538	13,648.5	0.36%	13,648.5	0.36%	15,554.9	0.41%
e590	Direct Access: ARCHER RAP	46	1,161.0	0.03%	1,161.0	0.03%	10,452.2	0.27%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	11,185.2	0.29%
e595	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	9,841.6	0.26%
e596	Direct Access: ARCHER RAP	278	3,359.2	0.09%	3,359.2	0.09%	3,821.6	0.10%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	9,755.6	0.26%
e601	Direct Access: ARCHER RAP	166	3,098.8	0.08%	2,580.7	0.07%	13,680.1	0.36%
e602	Direct Access: ARCHER RAP	19	1,020.9	0.03%	1,020.9	0.03%	5,451.2	0.14%
e603	Direct Access: ARCHER RAP	7	403.9	0.01%	542.4	0.01%	9,085.5	0.24%
e614	Direct Access: ARCHER RAP	686	2,333.7	0.06%	2,333.7	0.06%	14,831.7	0.39%
e616	Direct Access: ARCHER RAP	429	400.7	0.01%	400.7	0.01%	3,865.7	0.10%
e617	Direct Access: ARCHER RAP	14	178.0	0.00%	178.0	0.00%	14,493.0	0.38%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	6,814.2	0.18%
e619	Direct Access: ARCHER RAP	3	0.0	0.00%	0.0	0.00%	1,800.4	0.05%
e620	Direct Access: ARCHER RAP	193	10,409.0	0.27%	10,432.0	0.27%	16,338.3	0.43%
e622	Direct Access: ARCHER RAP	240	14,017.7	0.37%	14,017.7	0.37%	5,994.7	0.16%
e582	Instant Access	386	193.6	0.01%	193.6	0.01%	2,284.0	0.06%
e592	Instant Access	0	0.0	0.00%	0.0	0.00%	275.5	0.01%
e598	Instant Access	0	0.0	0.00%	0.0	0.00%	58.7	0.00%
e600	Instant Access	0	0.0	0.00%	0.0	0.00%	286.9	0.01%
e623	Instant Access	0	0.0	0.00%	0.0	0.00%	91.2	0.00%
e624	Instant Access	0	0.0	0.00%	0.0	0.00%	213.1	0.01%
e625	Instant Access	60	4.1	0.00%	4.3	0.00%	182.6	0.00%
e626	Instant Access	0	0.0	0.00%	0.0	0.00%	78.4	0.00%
csc01	Research	0	0.0	0.00%	0.0	0.00%	126.4	0.00%
e573	Training	257	1,171.8	0.03%	1,274.1	0.03%	5,564.9	0.15%
e589	Training	1,178	2,715.9	0.07%	2,716.5	0.07%	8,848.4	0.23%
e604	Training	2,411	5,119.5	0.13%	5,870.2	0.15%	5,541.1	0.14%
e612	Training	546	5,375.6	0.14%	5,375.6	0.14%	4,451.9	0.12%
y16	Service	2	53.4	0.00%	53.5	0.00%	410.8	0.01%
z17	Service	223	20,012.1	0.52%	20,012.1	0.52%	9,942.4	0.26%
EPSRC Total		117,130	1,951,542.1	51.03%	2,211,516.1	57.83%	2,200,404.6	57.54%
n01	Consortia	11,940	233,732.4	6.11%	251,854.4	6.59%	316,702.6	8.28%
n02	Consortia	89,687	449,758.3	11.76%	459,189.8	12.01%	497,851.6	13.02%
n03	Consortia	11,625	215,537.5	5.64%	217,683.2	5.69%	261,248.9	6.83%
NERC Total		113,252	899,028.1	23.51%	928,727.5	24.29%	1,075,803.1	28.13%
e621	Leadership Awards	0	0.0	0.00%	0.0	0.00%	7,656.6	0.20%
e568	Research	19	1,068.5	0.03%	1,068.5	0.03%	10,313.0	0.27%
BBSRC Total		19	1,068.5	0.03%	1,068.5	0.03%	17,969.5	0.47%
pr1u0002	Class1a	0	0.0	0.00%	0.0	0.00%	492.9	0.01%
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1.2	0.00%
pr1u1455	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,444.2	0.06%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
pr1utd02	DECI: EXEC	19	1,117.9	0.03%	1,976.5	0.05%	384.3	0.01%
PRACE Total		19	1,117.9	0.03%	1,976.5	0.05%	3,322.7	0.09%
ecse0910	eCSE	219	29.8	0.00%	29.8	0.00%	148.1	0.00%
ecse1012	eCSE	24	153.7	0.00%	153.7	0.00%	116.7	0.00%
ecse1208	eCSE	0	0.0	0.00%	0.0	0.00%	43.7	0.00%
ecse1303	eCSE	0	0.0	0.00%	0.0	0.00%	129.5	0.00%
ecse1307	eCSE	0	0.0	0.00%	0.0	0.00%	129.5	0.00%
ecse1320	eCSE	222	0.0	0.00%	0.0	0.00%	101.7	0.00%
ecse1001	Service	59	246.7	0.01%	246.7	0.01%	407.5	0.01%
eCSE Total		524	430.3	0.01%	430.3	0.01%	1,076.6	0.03%
d43	ECDF	0	0.0	0.00%	0.0	0.00%	2,464.6	0.06%
d56	Research	2,482	29,919.9	0.78%	29,921.8	0.78%	19,884.9	0.52%
d67	Research	112	1,291.5	0.03%	1,291.5	0.03%	492.9	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.2	0.00%
d114	Research	1,264	22,820.1	0.60%	24,901.2	0.65%	32,832.3	0.86%
d118	Research	187	447.9	0.01%	447.9	0.01%	246.5	0.01%
d137	Research	60	2,038.4	0.05%	2,038.4	0.05%	7,393.8	0.19%
d142	Research	456	2,540.9	0.07%	4,889.3	0.13%	4,189.8	0.11%
d143	Research	78	1,342.5	0.04%	1,342.5	0.04%	7,414.1	0.19%
d149	Research	544	3,609.3	0.09%	3,636.4	0.10%	1,138.7	0.03%
d150	Research	678	34,120.1	0.89%	34,120.1	0.89%	23,861.8	0.62%
d155	Research	2,962	11,146.5	0.29%	11,236.7	0.29%	4,107.7	0.11%
d166	Research	276	6,675.1	0.17%	6,675.2	0.17%	2,008.7	0.05%
d170	Research	0	0.0	0.00%	0.0	0.00%	2.6	0.00%
d426	Research	0	0.0	0.00%	0.0	0.00%	246.5	0.01%
d153	Industrial	852	1,397.3	0.04%	1,394.1	0.04%	2,957.5	0.08%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	100.0	0.00%
d168	Industrial	7	21.7	0.00%	21.7	0.00%	246.5	0.01%
i01	Industrial	13	208.6	0.01%	208.6	0.01%	140.5	0.00%
i18	Industrial	34	1,705.3	0.04%	1,705.3	0.04%	8,510.3	0.22%
i21	Industrial	36	1,346.7	0.04%	923.3	0.02%	24,646.1	0.64%
i225	Industrial	0	0.0	0.00%	0.0	0.00%	46.6	0.00%
i228	Industrial	0	0.0	0.00%	0.0	0.00%	203.1	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	369.7	0.01%
i234	Industrial	0	0.0	0.00%	0.0	0.00%	179.0	0.00%
x08	Industrial	57	105.5	0.00%	105.5	0.00%	2,464.6	0.06%
d74	Training	5,180	1,161.1	0.03%	1,161.1	0.03%	492.9	0.01%
d104	Training	653	35.0	0.00%	35.0	0.00%	329.6	0.01%
d167	Training	414	492.8	0.01%	428.7	0.01%	492.9	0.01%
d131	Service	138	37.7	0.00%	39.3	0.00%	739.4	0.02%
d134	Service	0	0.0	0.00%	0.0	0.00%	24.6	0.00%
d425	Service	0	0.0	0.00%	0.0	0.00%	329.6	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	24.6	0.00%
y02	Service	26	30.6	0.00%	30.6	0.00%	246.5	0.01%
y07	Service	110	1.2	0.00%	6.7	0.00%	24.6	0.00%
y21	Service	69	64.7	0.00%	64.7	0.00%	1,232.3	0.03%
z02	Service	12	0.0	0.00%	0.0	0.00%	12.3	0.00%
z99	Service	73	0.6	0.00%	0.6	0.00%	24.6	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	7,393.8	0.19%
DirectorsTime Total		16,773	122,561.1	3.21%	126,626.2	3.31%	157,516.8	4.12%
y14	Training	789	1,754.8	0.05%	1,170.0	0.03%	1,725.2	0.05%
z19	Service	1,750	508.0	0.01%	510.0	0.01%	12,323.1	0.32%
CSE Total		2,539	2,262.8	0.06%	1,679.9	0.04%	14,048.3	0.37%
Total		250,256	2,978,010.7	77.88%	3,272,024.8	85.57%	3,470,141.6	90.75%

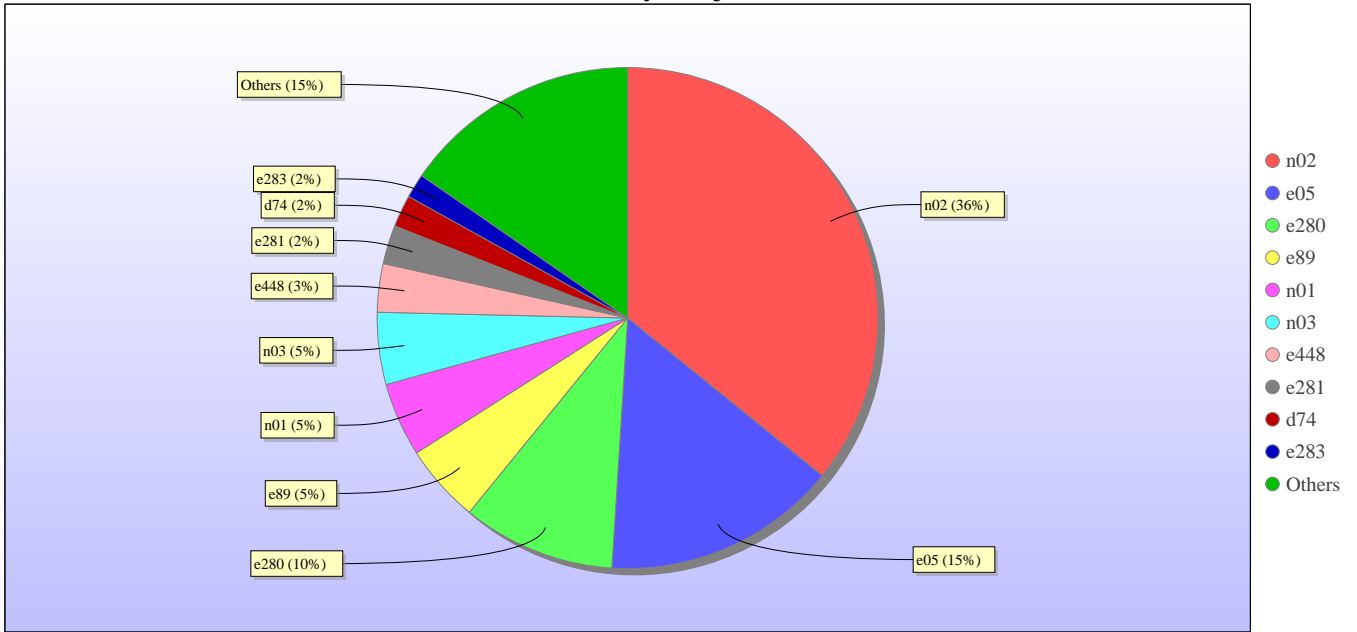
Use by Project



Uncharged Use by Project



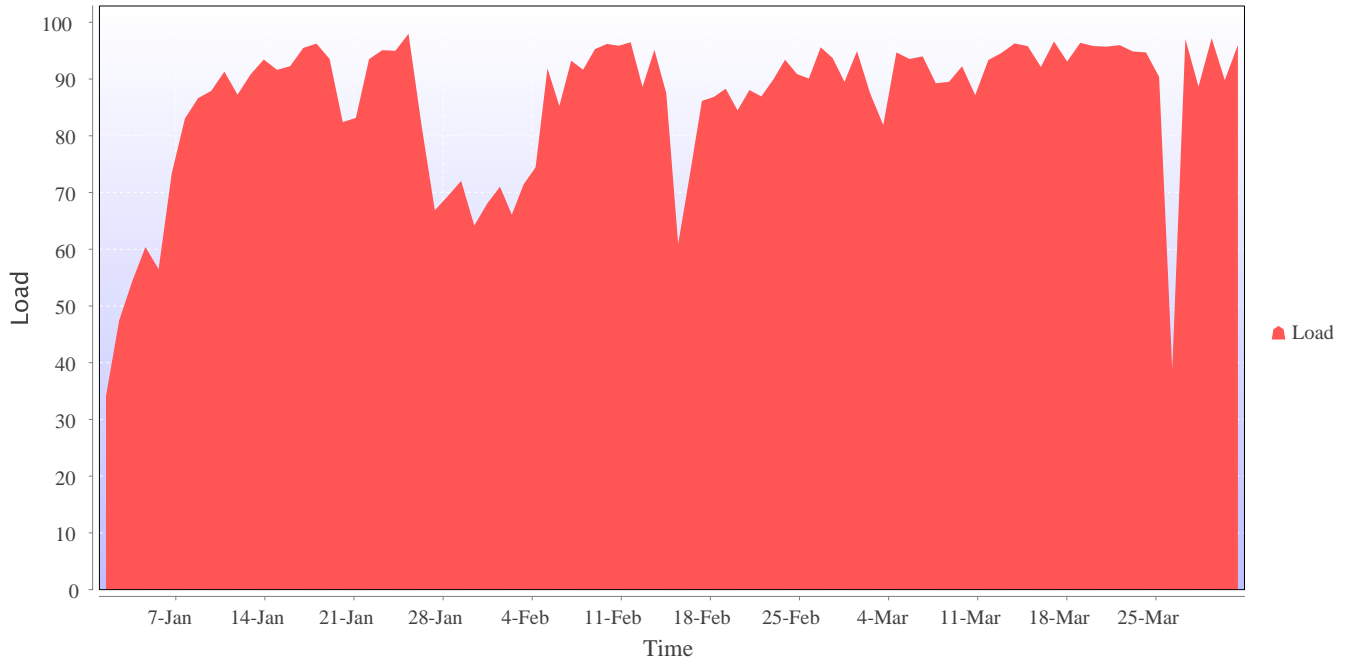
Jobs by Project



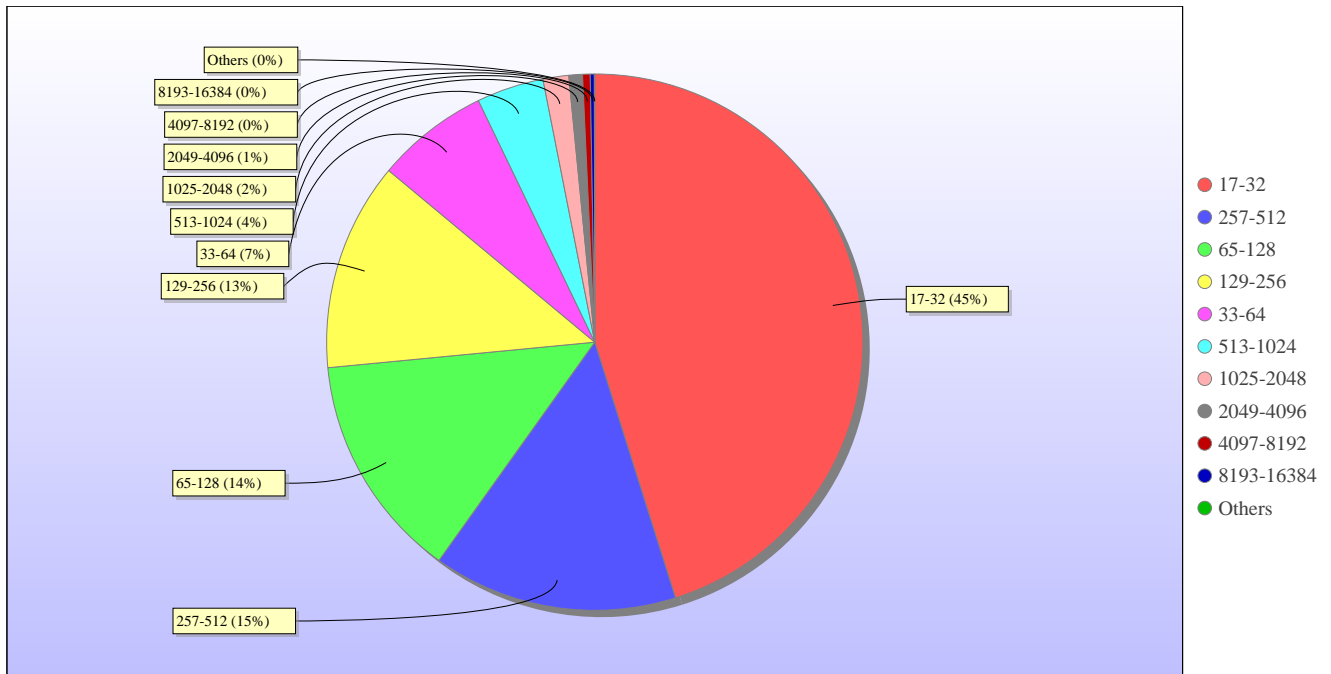
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	35,019.247	112,928
33-64	35,990.782	17,016
65-128	147,492.423	34,061
129-256	435,412.317	31,463
257-512	613,295.811	36,874
513-1024	498,998.667	10,122
1025-2048	368,445.742	3,881
2049-4096	373,291.686	2,053
4097-8192	191,152.672	1,147
8193-16384	249,910.178	612
16385-32768	3,408.659	42
32769-65536	1,617.988	12
65537-131072	5,593.498	10

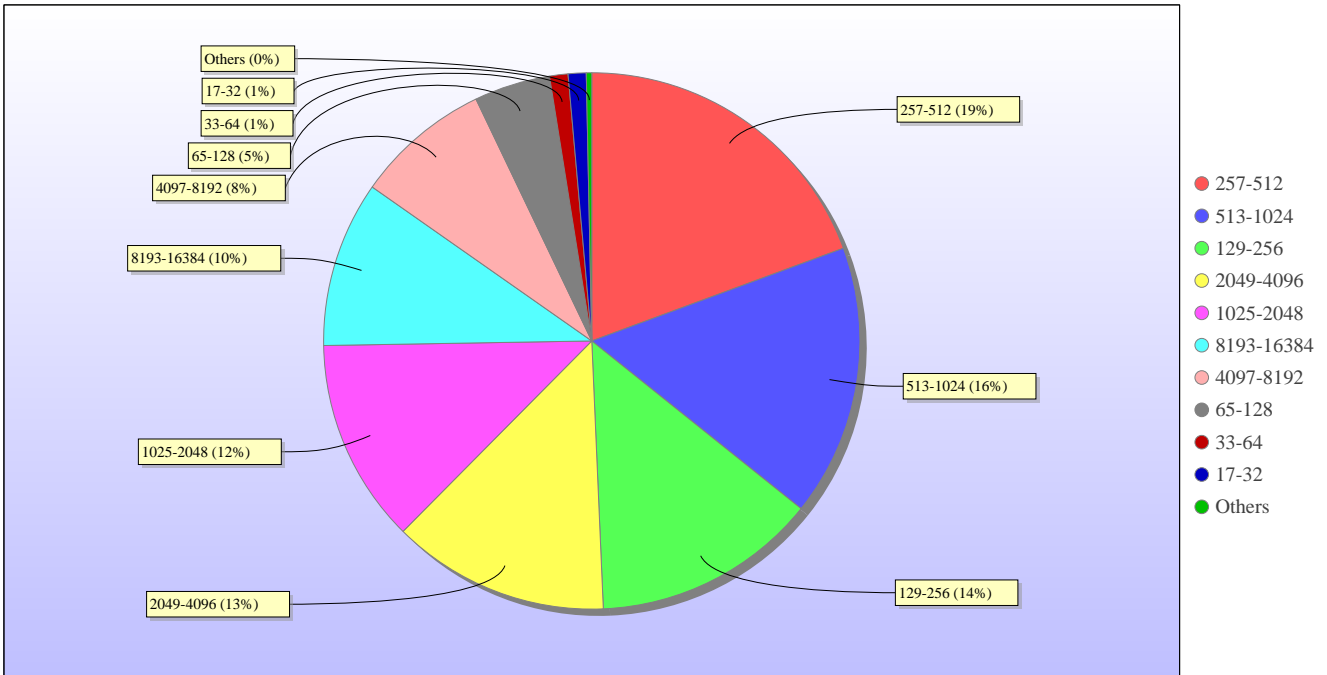
Load plots



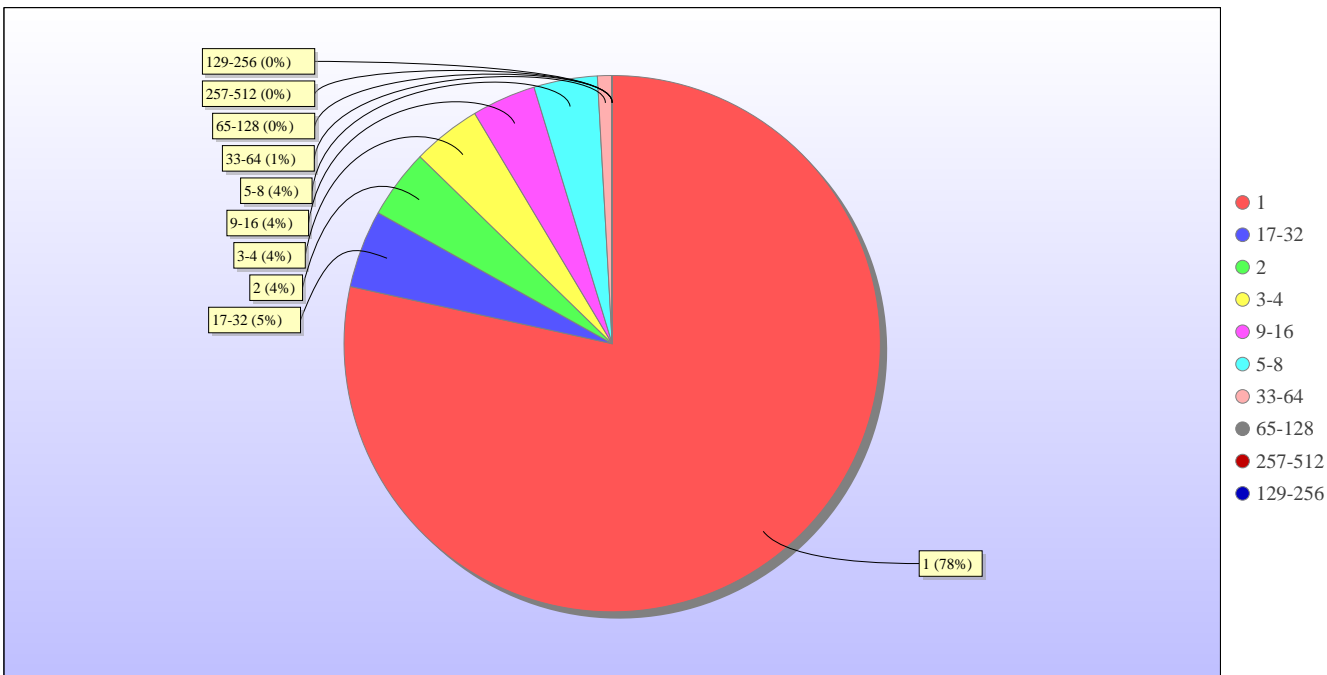
Percentage load on machine



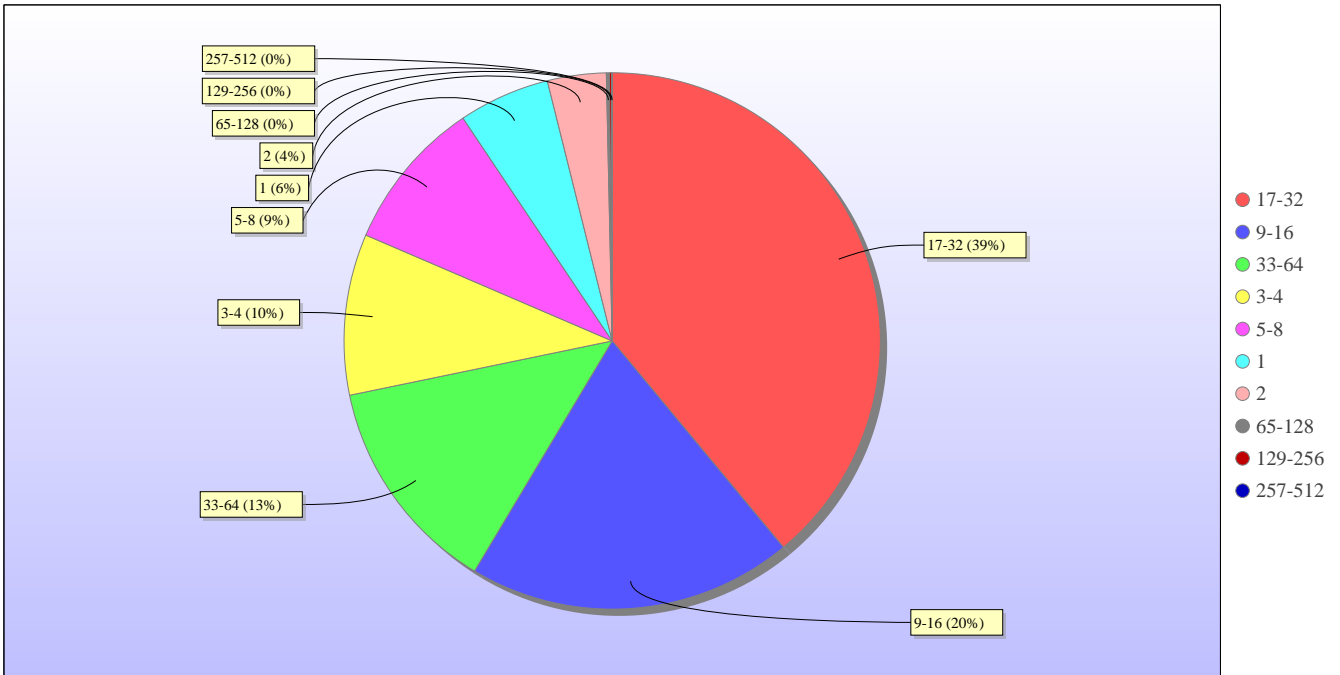
Jobs by Size



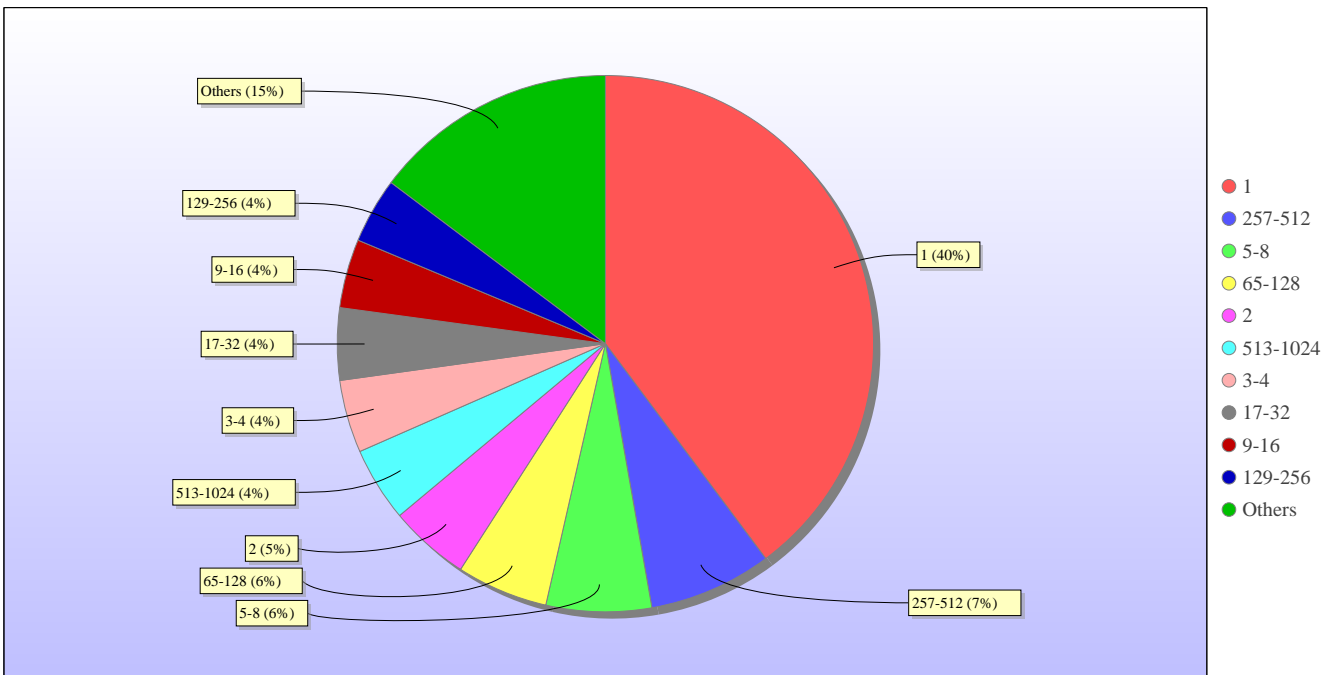
kAUs used by Size



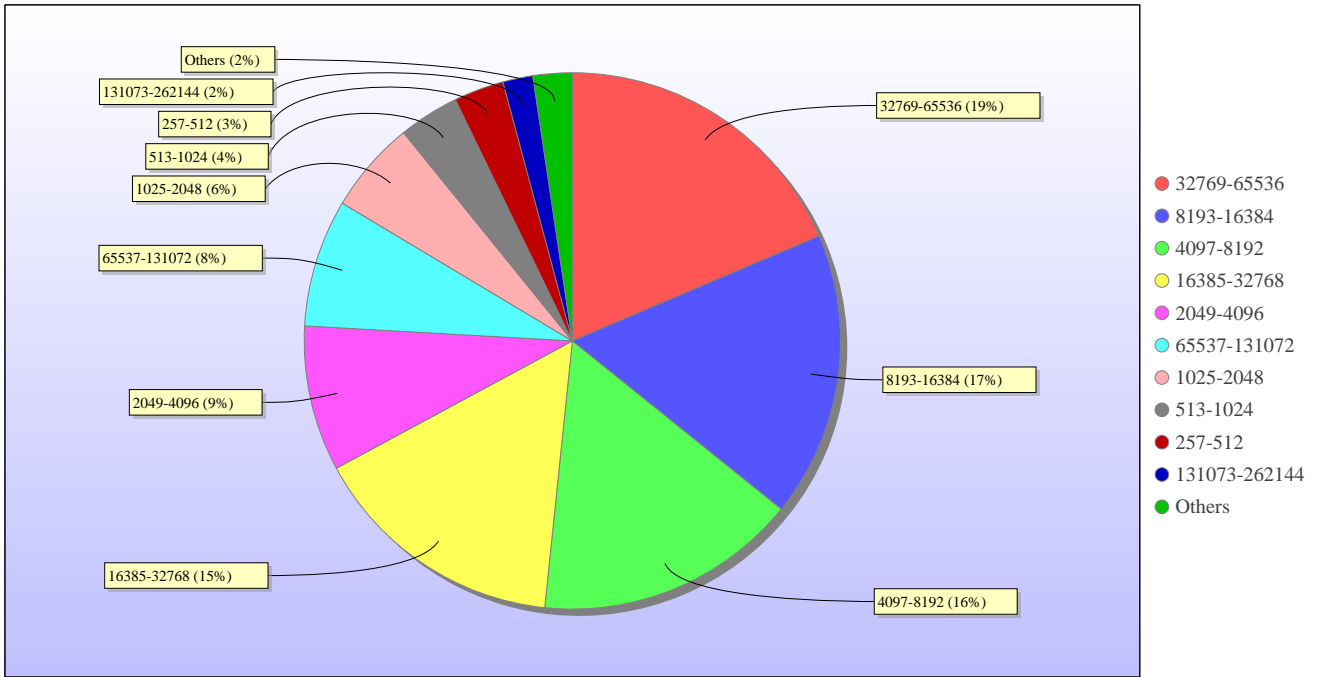
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

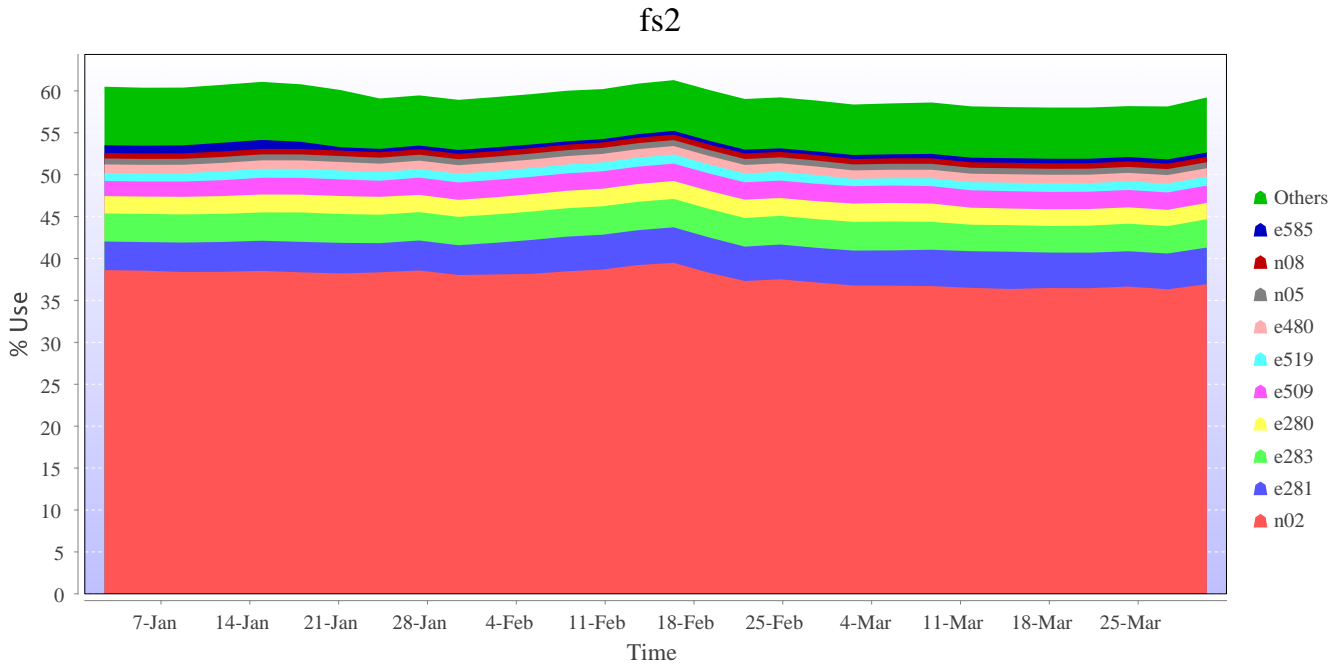


kAUs used grouped by core-hours

Disk usage

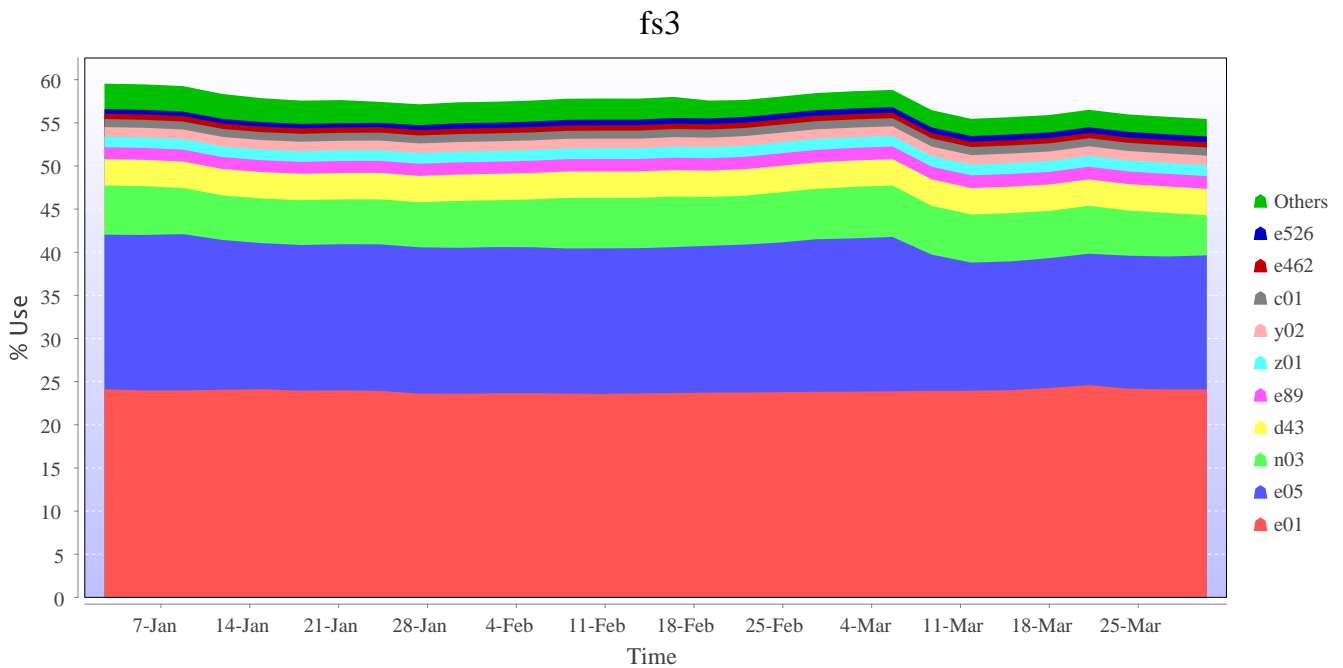
Disk usage for work (fs2)

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.



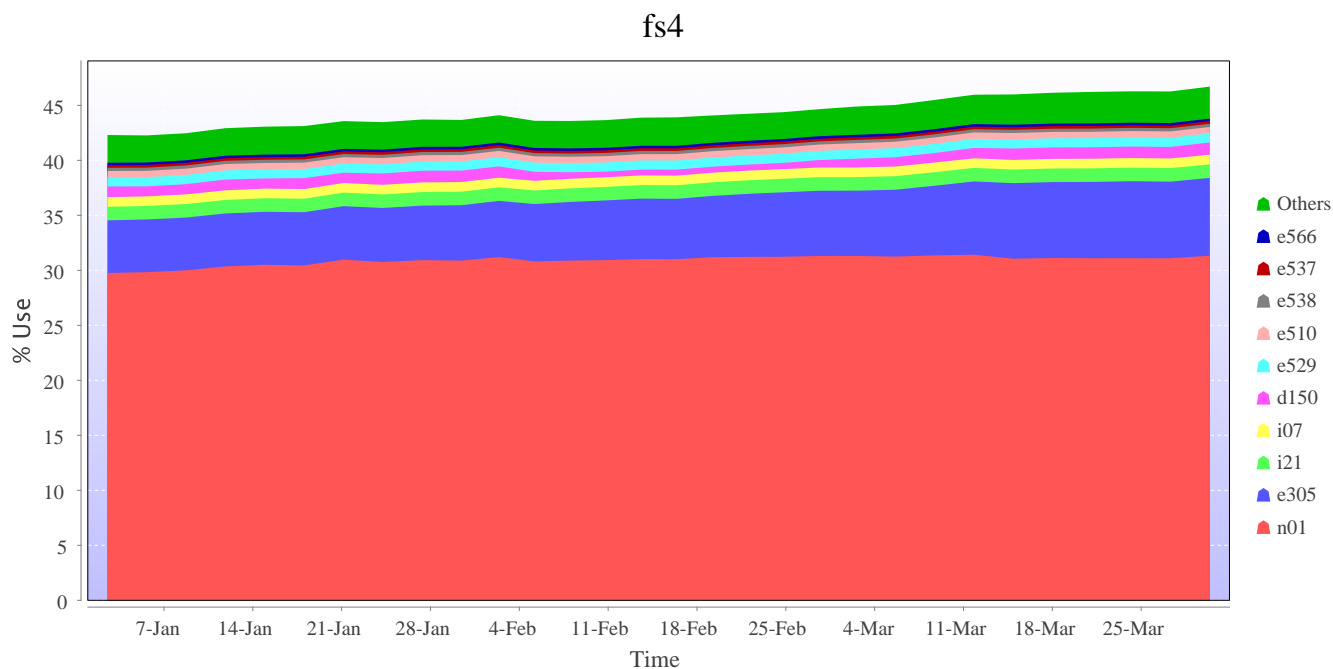
Disk usage for work (fs3)

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.



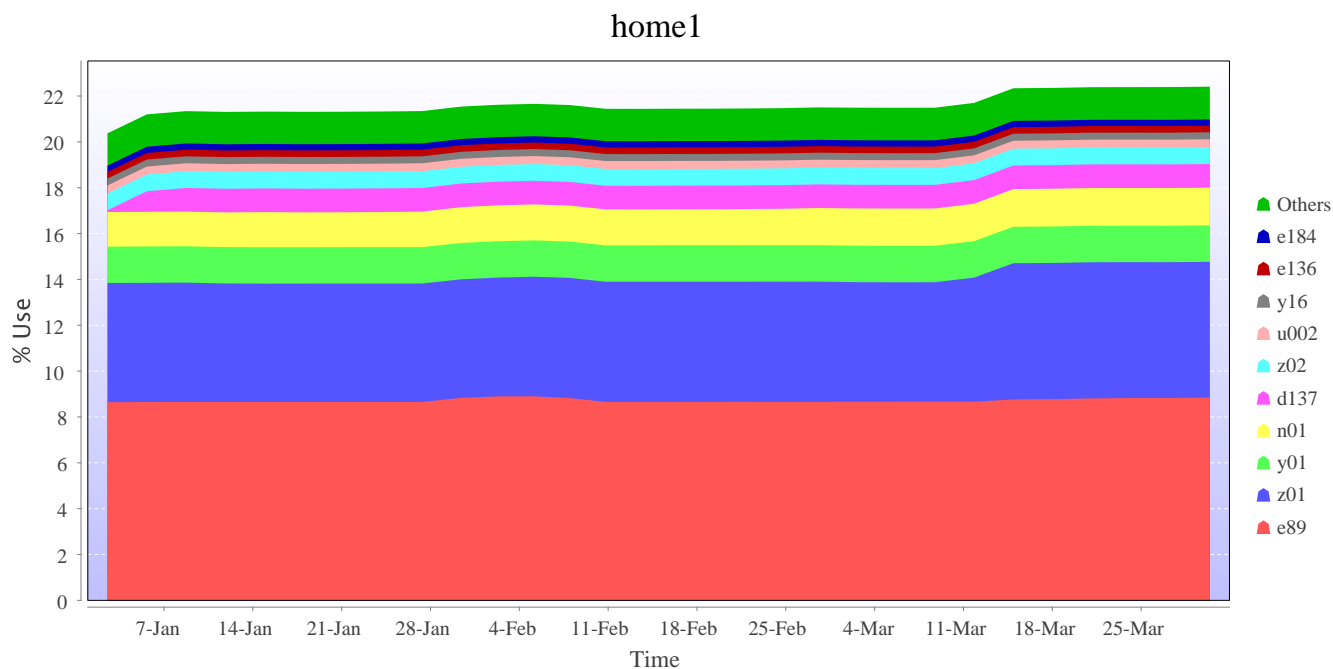
Disk usage for work (fs4)

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.



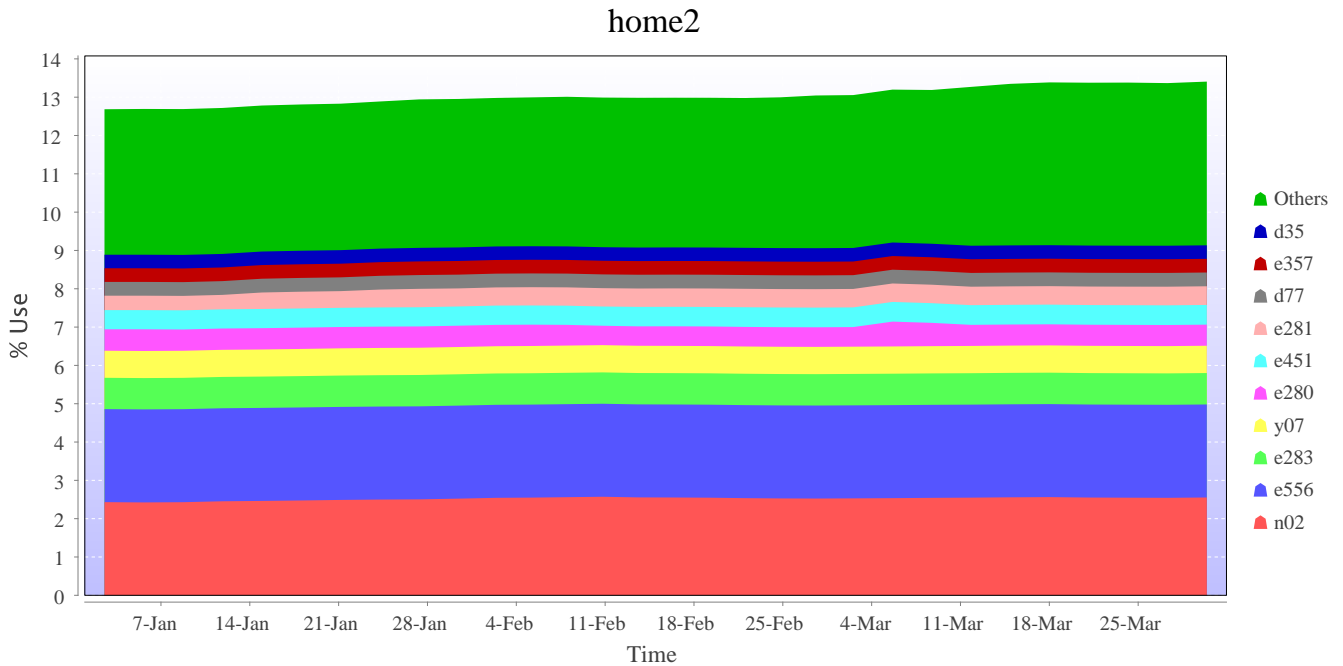
Disk usage for home (home1)

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.



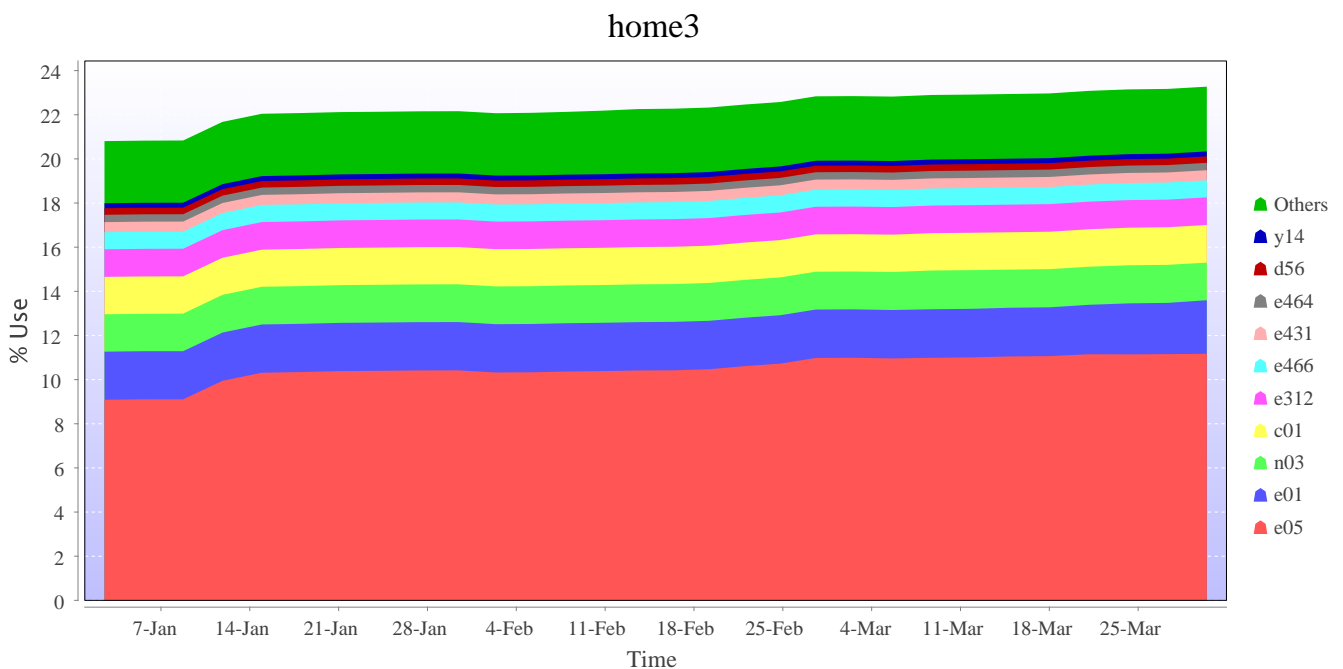
Disk usage for home (home2)

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.



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.

