

# Monthly Reporting

## Report from 01 January 2019 to 31 January 2019

### 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.

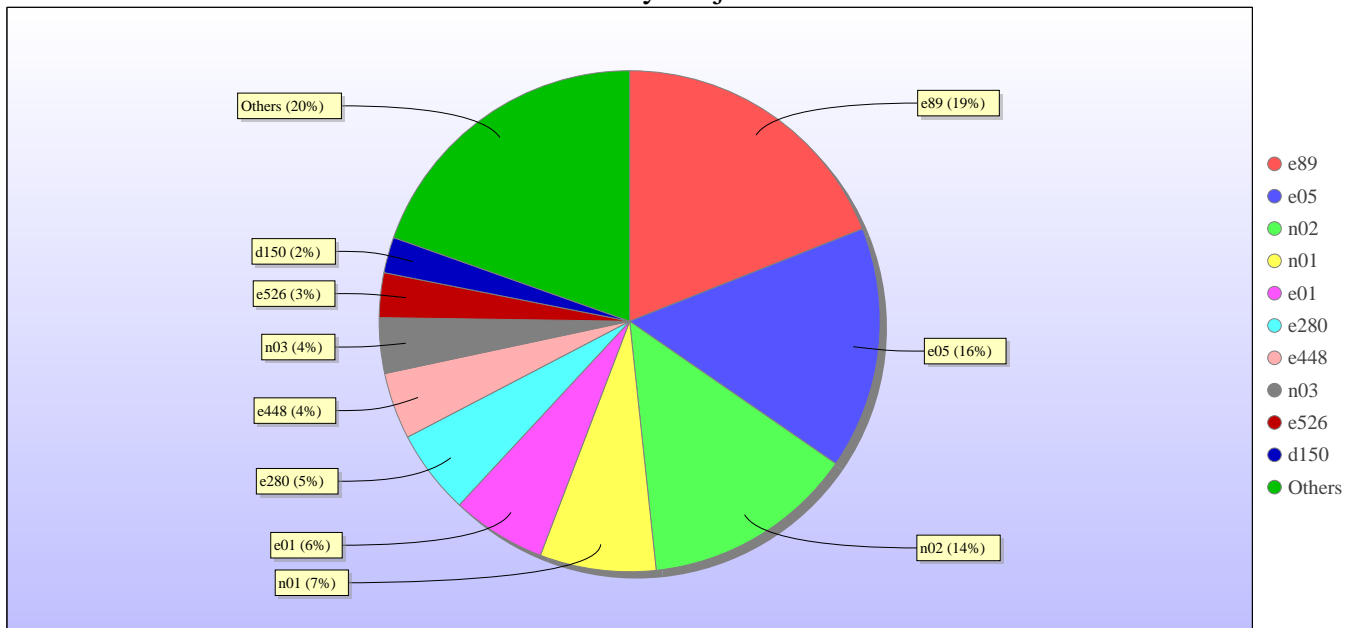
The (Allocation) column is the time allocated to the project, scaled according to the reporting period and shown as a fraction of the available resources. If this report period is a sub-period of the Allocation period then the SAFE calculates the Allocation for this sub-period based on a linear spend 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
e464	Leadership Awards	251	1,531.4	0.12%	1,531.4	0.12%	0.0	0.00%
e526	Leadership Awards	220	30,036.0	2.28%	30,036.0	2.28%	8,422.0	0.64%
e572	Leadership Awards	503	6,853.5	0.52%	8,584.2	0.65%	3,066.6	0.23%
c01	Class1a	544	3,046.6	0.23%	3,046.6	0.23%	6,337.9	0.48%
e341	Class1a	14	471.2	0.04%	471.2	0.04%	2,129.1	0.16%
e365	Class1a	32	557.7	0.04%	557.7	0.04%	2,377.5	0.18%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e432	Class1a	164	8,921.3	0.68%	8,921.3	0.68%	6,521.8	0.49%
e448	Class1a	1,019	44,869.7	3.40%	44,869.7	3.40%	33,568.4	2.55%
e451	Class1a	11	1.1	0.00%	1.1	0.00%	488.6	0.04%
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	145	22,258.6	1.69%	22,960.1	1.74%	15,329.7	1.16%
e520	Class1a	11	2,229.9	0.17%	3,608.8	0.27%	2,487.4	0.19%
e523	Class1a	96	12,711.0	0.96%	15,694.2	1.19%	5,396.3	0.41%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	1,852.8	0.14%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	1,136.1	0.09%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	3,863.1	0.29%
e558	Class1a	2	22.4	0.00%	22.4	0.00%	764.4	0.06%
e569	Class1a	141	7,270.7	0.55%	7,318.6	0.56%	1,988.3	0.15%
e571	Class1a	3	17.3	0.00%	17.3	0.00%	204.4	0.02%
e575	Class1a	181	7,012.5	0.53%	7,013.9	0.53%	2,397.2	0.18%
e580	Class1a	25	298.8	0.02%	298.8	0.02%	2,469.0	0.19%
e584	Class1a	0	0.0	0.00%	0.0	0.00%	1,392.5	0.11%
e588	Class1a	74	4,953.8	0.38%	4,953.8	0.38%	1,351.2	0.10%
e605	Class1a	47	679.4	0.05%	679.4	0.05%	1,354.9	0.10%
e606	Class1a	108	38.8	0.00%	38.8	0.00%	3,846.5	0.29%
e607	Class1a	0	0.0	0.00%	0.0	0.00%	5,109.9	0.39%
e608	Class1a	88	794.7	0.06%	794.7	0.06%	4,259.2	0.32%
e609	Class1a	46	0.7	0.00%	0.7	0.00%	9,368.1	0.71%
e610	Class1a	20	245.3	0.02%	245.3	0.02%	7,709.0	0.58%
e611	Class1a	0	0.0	0.00%	0.0	0.00%	1,113.5	0.08%
e613	Class1a	35	4,278.9	0.32%	4,278.9	0.32%	1,022.2	0.08%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	168.4	0.01%
e01	Consortia	1,388	42,071.4	3.19%	63,628.9	4.83%	79,740.6	6.05%
e05	Consortia	18,587	145,892.6	11.07%	162,987.9	12.37%	185,958.0	14.11%
e89	Consortia	3,619	152,193.5	11.55%	198,057.3	15.03%	121,237.2	9.20%

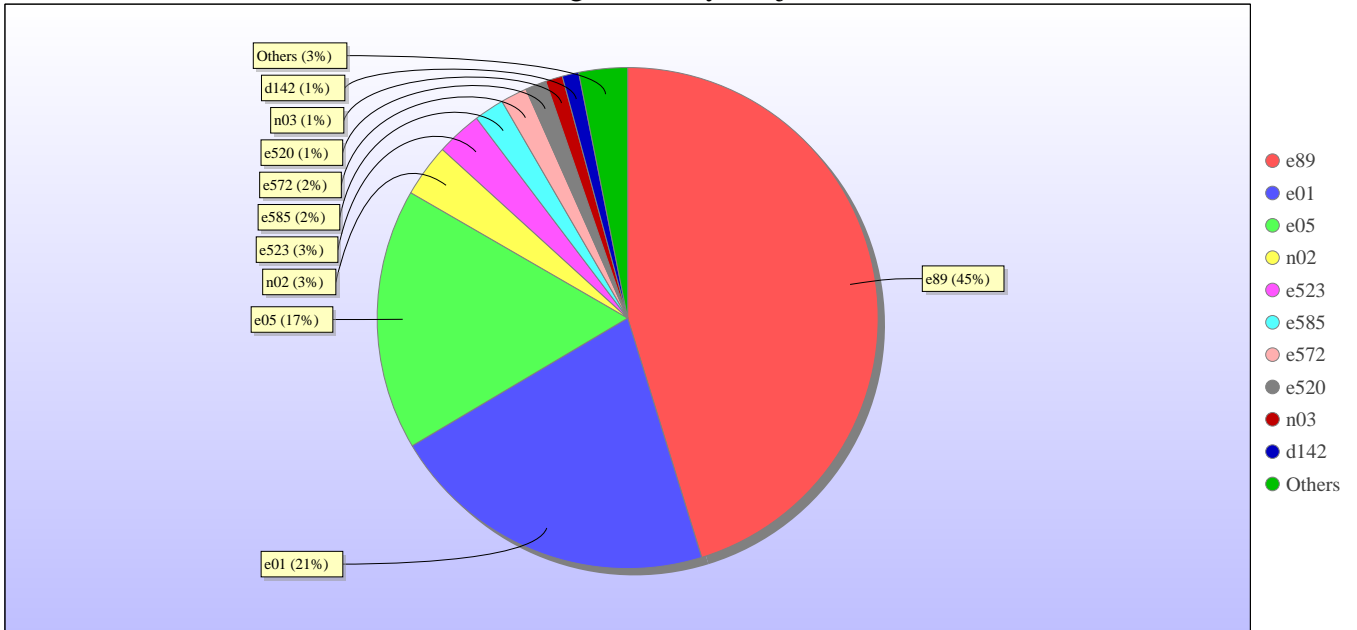
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e280	Consortia	2,849	56,783.2	4.31%	56,797.0	4.31%	54,814.3	4.16%
e281	Consortia	4,292	13,030.5	0.99%	13,742.2	1.04%	21,574.3	1.64%
e283	Consortia	1,017	9,408.9	0.71%	9,436.8	0.72%	13,321.1	1.01%
e305	Consortia	648	13,934.3	1.06%	13,989.4	1.06%	41,524.0	3.15%
e585	Consortia	446	10,924.3	0.83%	12,893.2	0.98%	25,549.5	1.94%
e348	Direct Access: ARCHER RAP	97	3,633.5	0.28%	3,633.5	0.28%	5,360.3	0.41%
e590	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,745.1	0.21%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,854.5	0.29%
e595	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,391.4	0.26%
e596	Direct Access: ARCHER RAP	33	1,019.3	0.08%	1,019.3	0.08%	1,316.9	0.10%
e599	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,361,816.1	255.11%
e601	Direct Access: ARCHER RAP	120	1,888.5	0.14%	1,370.3	0.10%	4,669.2	0.35%
e602	Direct Access: ARCHER RAP	1	247.8	0.02%	247.8	0.02%	1,878.5	0.14%
e603	Direct Access: ARCHER RAP	7	403.9	0.03%	542.4	0.04%	3,130.9	0.24%
e614	Direct Access: ARCHER RAP	154	256.0	0.02%	256.0	0.02%	5,111.1	0.39%
e616	Direct Access: ARCHER RAP	75	245.7	0.02%	245.7	0.02%	1,332.2	0.10%
e618	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,348.2	0.18%
e620	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,656.6	0.28%
e582	Instant Access	80	0.0	0.00%	0.0	0.00%	787.1	0.06%
e592	Instant Access	0	0.0	0.00%	0.0	0.00%	144.7	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%	202.1	0.02%
e573	Training	211	885.7	0.07%	988.0	0.07%	1,917.7	0.15%
e589	Training	65	859.3	0.07%	859.4	0.07%	3,049.2	0.23%
e604	Training	1,175	1,628.5	0.12%	1,637.8	0.12%	1,909.5	0.14%
e612	Training	71	2,166.5	0.16%	2,166.5	0.16%	767.1	0.06%
y16	Service	2	53.4	0.00%	53.5	0.00%	141.6	0.01%
z17	Service	83	7,874.6	0.60%	7,874.6	0.60%	3,426.2	0.26%
<b>EPSRC Total</b>		<b>38,800</b>	<b>624,502.9</b>	<b>47.39%</b>	<b>718,372.5</b>	<b>54.51%</b>	<b>4,106,550.0</b>	<b>311.63%</b>
n01	Consortia	2,729	79,606.8	6.04%	78,121.9	5.93%	109,137.0	8.28%
n02	Consortia	28,166	139,727.4	10.60%	142,756.8	10.83%	171,561.6	13.02%
n03	Consortia	2,242	36,237.6	2.75%	37,348.9	2.83%	90,027.4	6.83%
<b>NERC Total</b>		<b>33,137</b>	<b>255,571.8</b>	<b>19.39%</b>	<b>258,227.7</b>	<b>19.60%</b>	<b>370,726.0</b>	<b>28.13%</b>
e568	Research	19	1,068.5	0.08%	1,068.5	0.08%	3,553.9	0.27%
<b>BBSRC Total</b>		<b>19</b>	<b>1,068.5</b>	<b>0.08%</b>	<b>1,068.5</b>	<b>0.08%</b>	<b>3,553.9</b>	<b>0.27%</b>
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%	851.4	0.06%
pr1utd02	DECI: EXEC	13	1,073.8	0.08%	1,902.9	0.14%	133.9	0.01%
<b>PRACE Total</b>		<b>13</b>	<b>1,073.8</b>	<b>0.08%</b>	<b>1,902.9</b>	<b>0.14%</b>	<b>985.6</b>	<b>0.07%</b>
ecse0910	eCSE	152	29.8	0.00%	29.8	0.00%	51.0	0.00%
ecse1012	eCSE	23	153.6	0.01%	153.6	0.01%	40.2	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%	38.6	0.00%
ecse1307	eCSE	0	0.0	0.00%	0.0	0.00%	38.6	0.00%
ecse1320	eCSE	0	0.0	0.00%	0.0	0.00%	16.0	0.00%
ecse1001	Service	59	246.7	0.02%	246.7	0.02%	407.5	0.03%
<b>eCSE Total</b>		<b>234</b>	<b>430.1</b>	<b>0.03%</b>	<b>430.1</b>	<b>0.03%</b>	<b>635.5</b>	<b>0.05%</b>
d43	ECDF	0	0.0	0.00%	0.0	0.00%	849.3	0.06%
d56	Research	729	19,929.6	1.51%	19,931.5	1.51%	6,852.4	0.52%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d114	Research	342	7,497.0	0.57%	7,569.7	0.57%	11,314.2	0.86%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
d118	Research	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d137	Research	42	2,028.4	0.15%	2,028.4	0.15%	2,547.9	0.19%
d142	Research	79	1,096.6	0.08%	2,179.0	0.17%	1,443.8	0.11%
d143	Research	34	690.8	0.05%	690.8	0.05%	2,554.9	0.19%
d149	Research	129	658.5	0.05%	658.6	0.05%	392.4	0.03%
d150	Research	602	24,129.8	1.83%	24,129.8	1.83%	8,222.9	0.62%
d155	Research	299	781.9	0.06%	781.9	0.06%	1,415.5	0.11%
d166	Research	91	2,290.1	0.17%	2,290.1	0.17%	254.8	0.02%
d426	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d153	Industrial	255	556.4	0.04%	552.2	0.04%	1,019.2	0.08%
d156	Industrial	0	0.0	0.00%	0.0	0.00%	79.5	0.01%
d168	Industrial	7	21.7	0.00%	21.7	0.00%	84.9	0.01%
i18	Industrial	4	50.0	0.00%	50.0	0.00%	2,932.7	0.22%
i21	Industrial	25	620.9	0.05%	439.5	0.03%	8,493.2	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%	70.0	0.01%
i232	Industrial	0	0.0	0.00%	0.0	0.00%	127.4	0.01%
i234	Industrial	0	0.0	0.00%	0.0	0.00%	3.0	0.00%
x08	Industrial	46	26.0	0.00%	26.0	0.00%	849.3	0.06%
d74	Training	288	5.7	0.00%	5.7	0.00%	169.9	0.01%
d104	Training	137	1.3	0.00%	1.3	0.00%	113.6	0.01%
d167	Training	182	248.4	0.02%	201.6	0.02%	169.9	0.01%
d131	Service	8	2.5	0.00%	3.7	0.00%	254.8	0.02%
d425	Service	0	0.0	0.00%	0.0	0.00%	113.6	0.01%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	4	9.8	0.00%	9.8	0.00%	84.9	0.01%
y07	Service	46	0.0	0.00%	2.2	0.00%	8.5	0.00%
z02	Service	12	0.0	0.00%	0.0	0.00%	4.2	0.00%
z99	Service	28	0.2	0.00%	0.2	0.00%	8.5	0.00%
d169	UoE Access	0	0.0	0.00%	0.0	0.00%	2,547.9	0.19%
DirectorsTime Total		3,389	60,645.5	4.60%	61,573.5	4.67%	53,165.6	4.03%
y14	Training	474	1,446.3	0.11%	964.2	0.07%	594.5	0.05%
y21	Service	69	64.7	0.00%	64.7	0.00%	424.7	0.03%
z19	Service	187	283.7	0.02%	284.0	0.02%	4,246.6	0.32%
CSE Total		730	1,794.8	0.14%	1,312.9	0.10%	5,265.8	0.40%
Total		76,322	945,087.3	71.72%	1,042,888.1	79.14%	4,540,882.4	344.59%

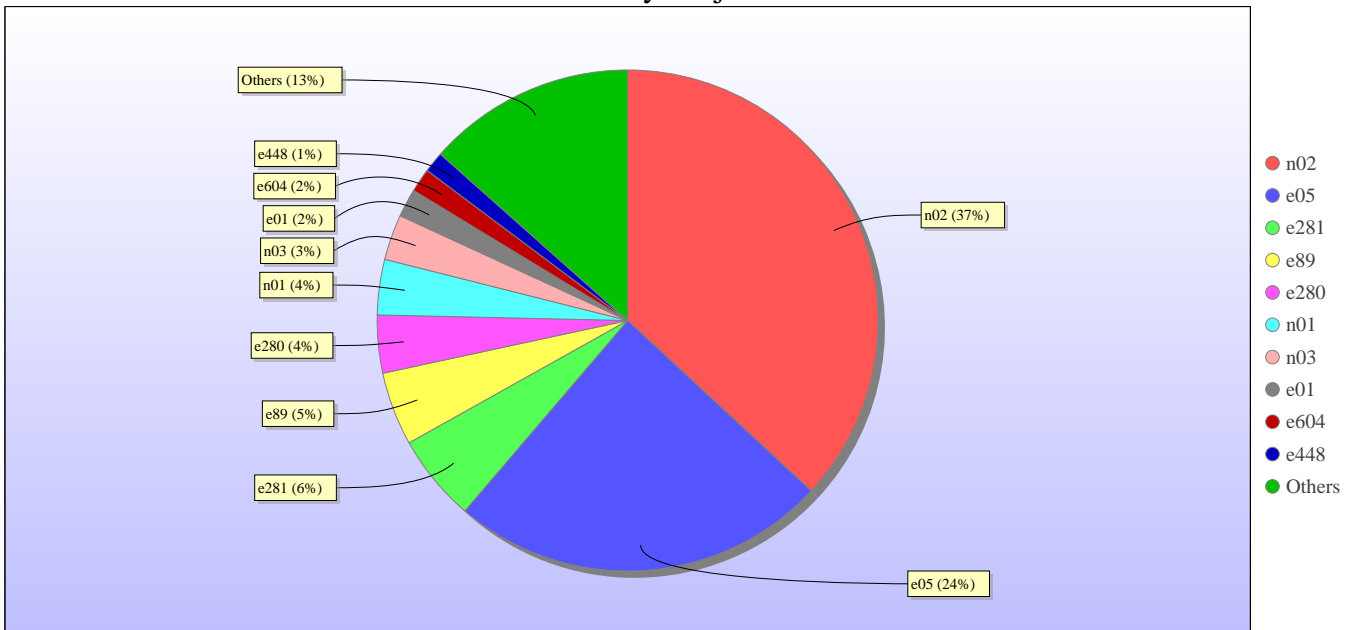
Use by Project



### Uncharged Use by Project



### Jobs by Project

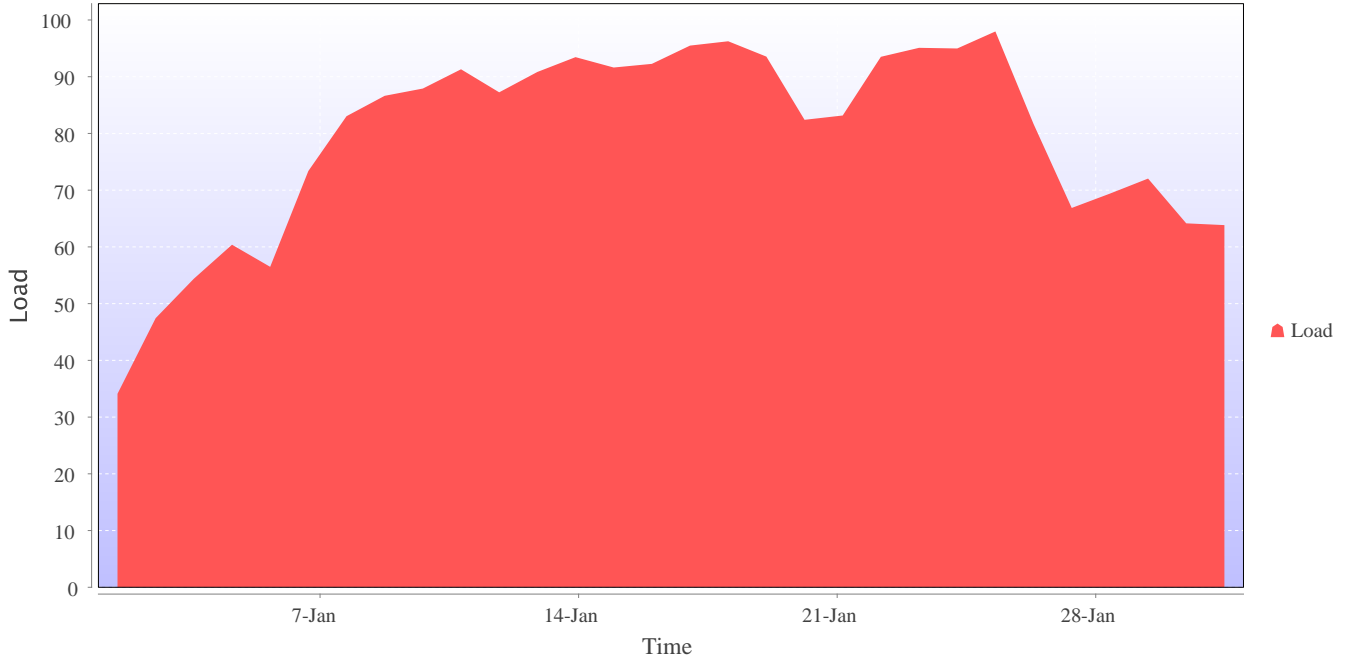


### kAUs (by Size)

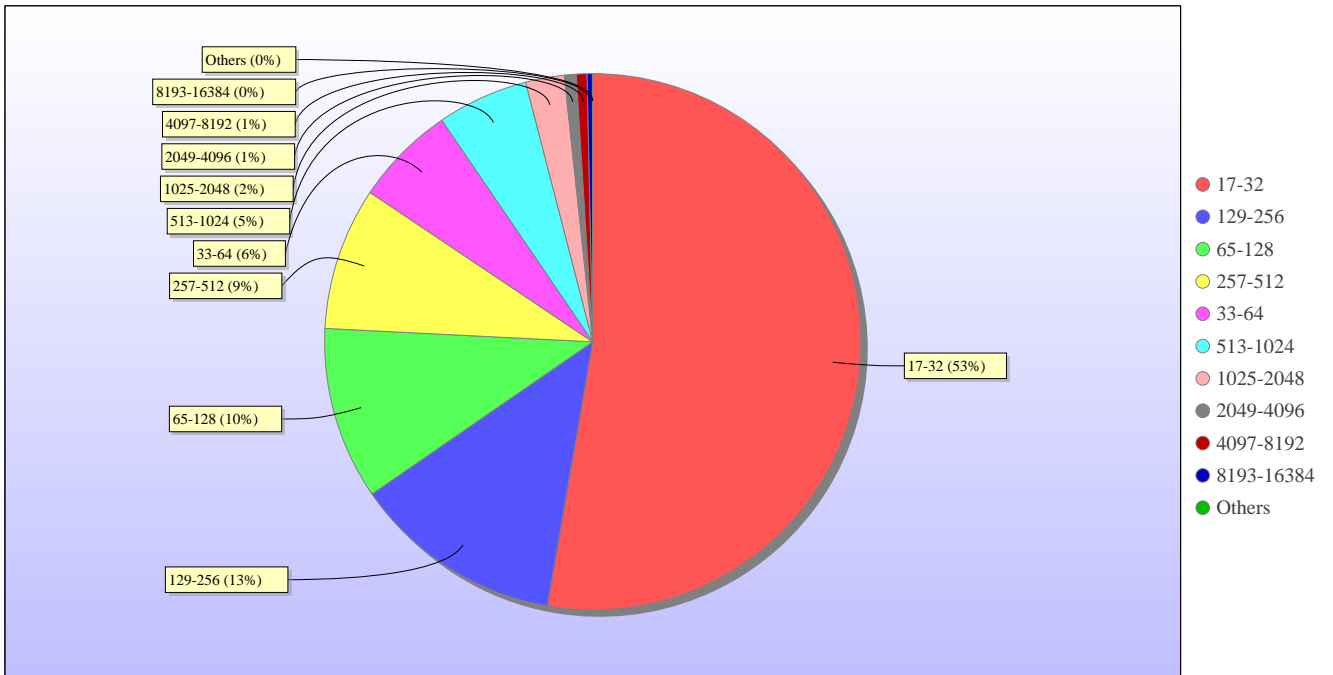
Size	kAUs	Number of Jobs
17-32	8,853.17	40,219
33-64	11,232.911	4,638
65-128	43,912.472	7,940
129-256	136,369.148	9,677
257-512	144,455.385	6,567
513-1024	183,315.85	4,187
1025-2048	134,673.386	1,780
2049-4096	122,851.562	544
4097-8192	79,246.423	493
8193-16384	67,160.582	241
16385-32768	1,823.598	13

Size	kAUs	Number of Jobs
32769-65536	362.564	4

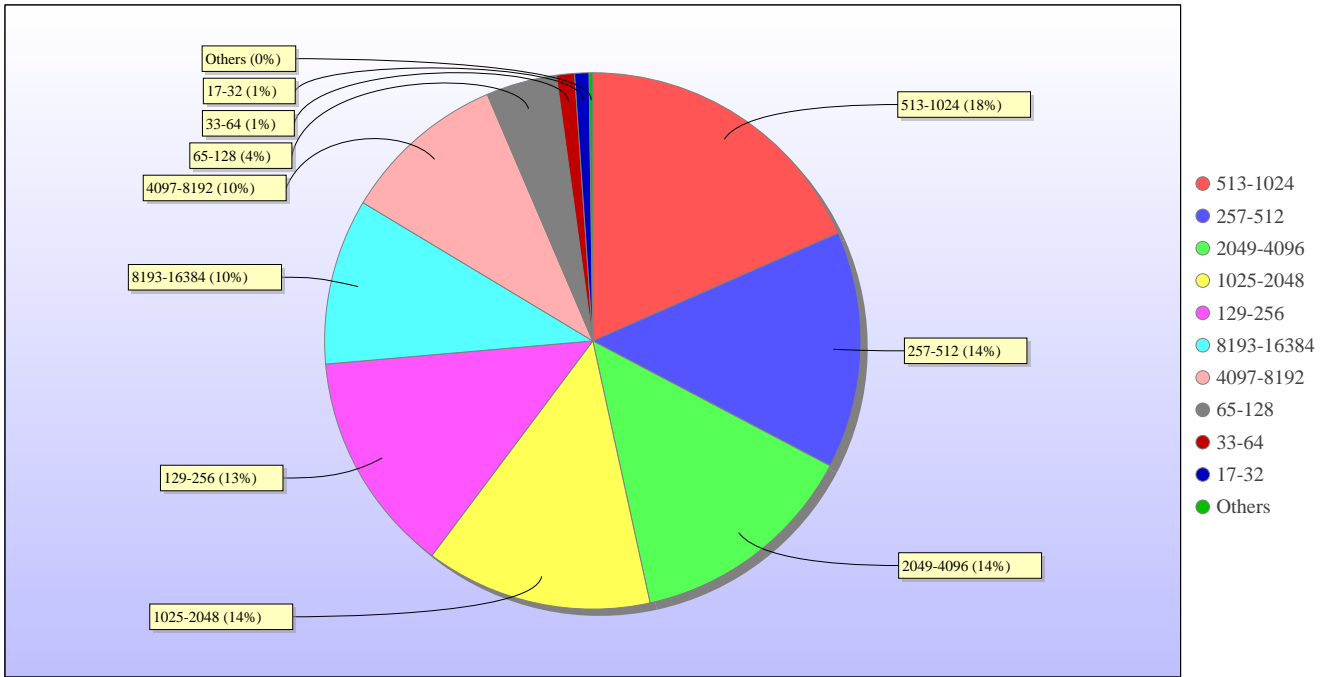
### Load plots



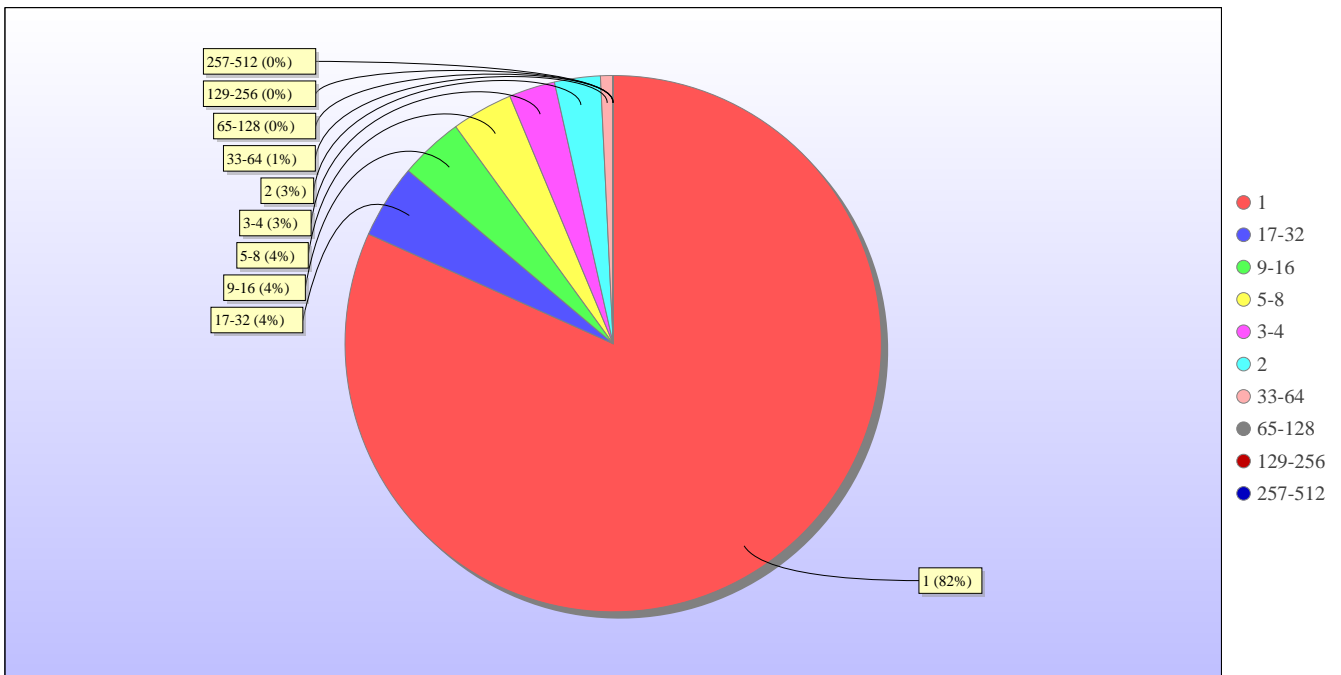
Percentage load on machine



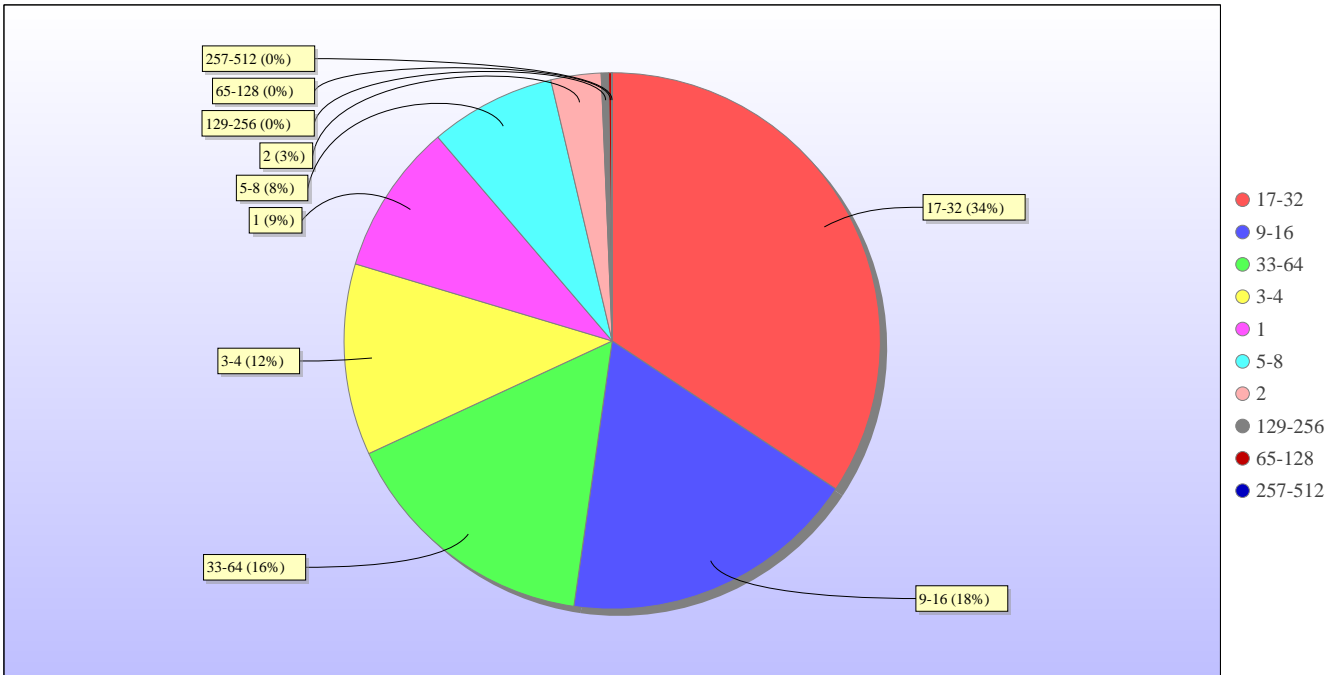
Jobs by Size



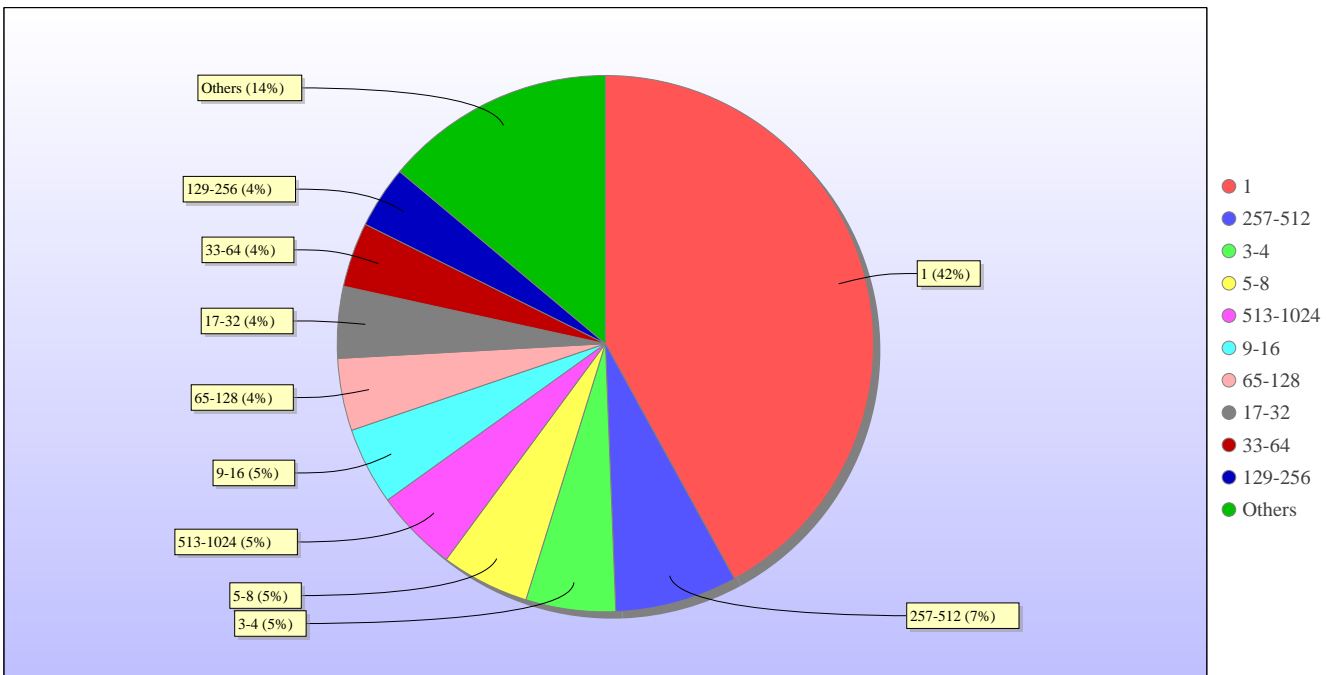
kAUs used by Size



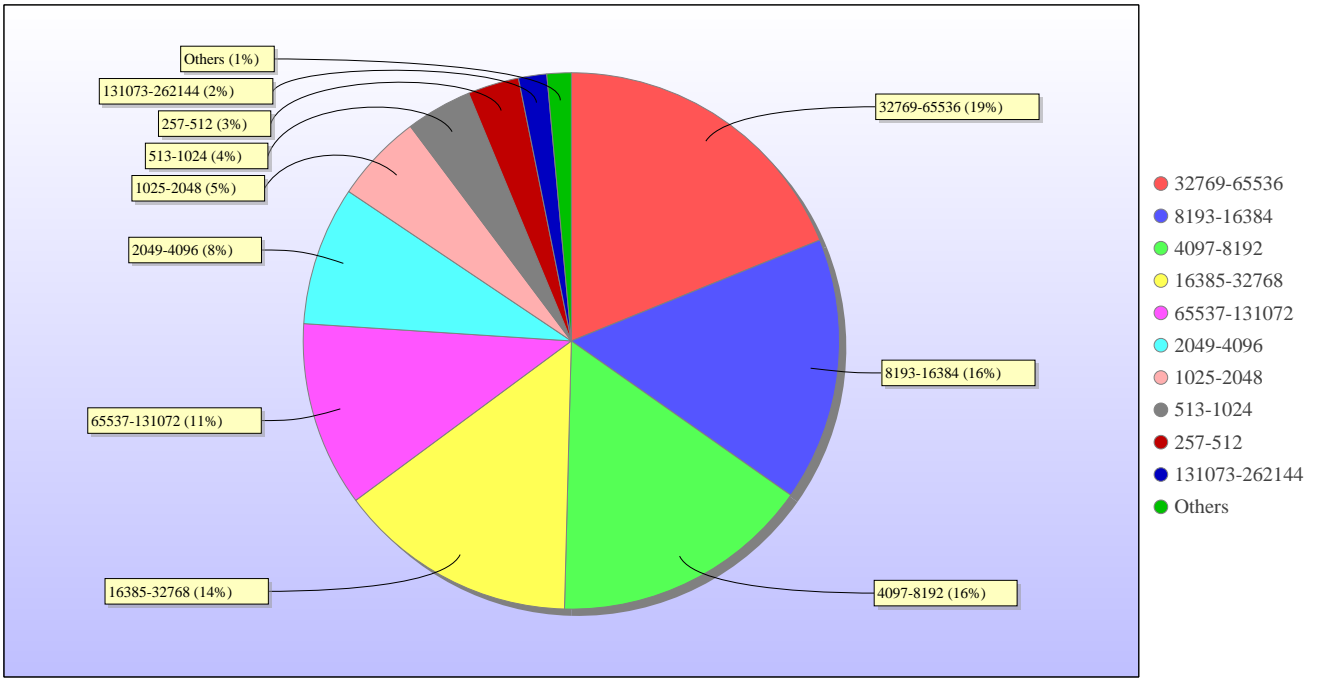
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours



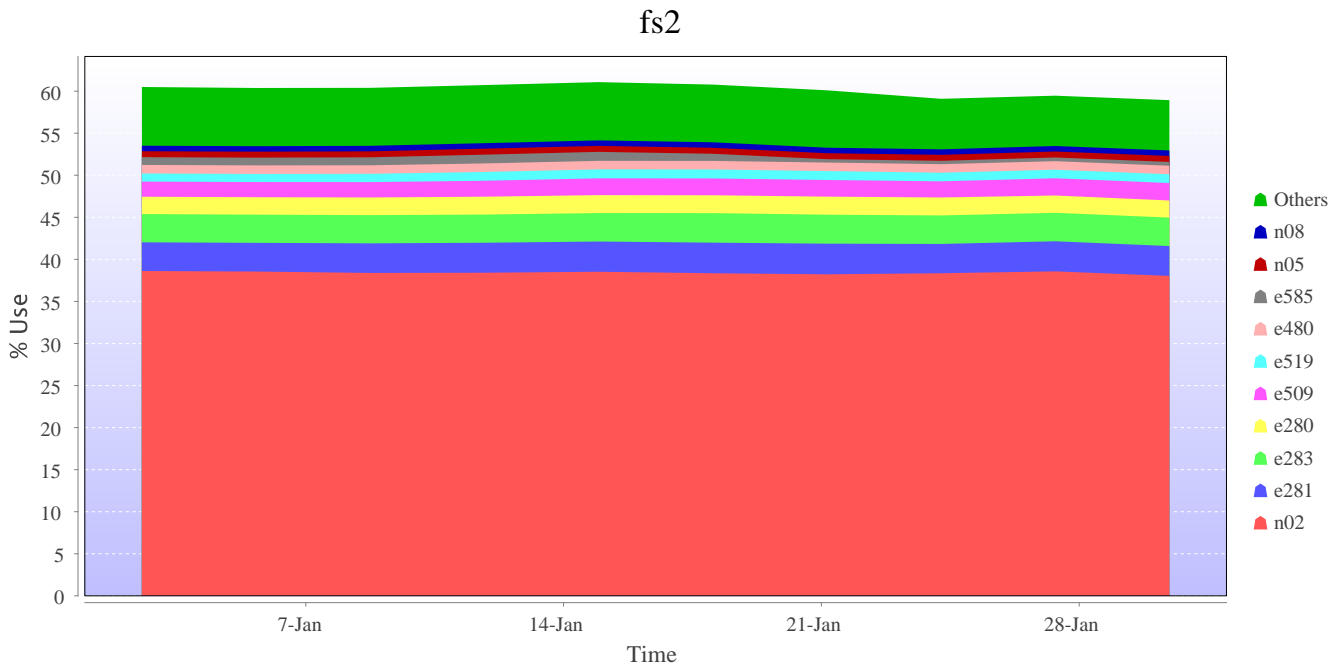
kAUs used grouped by core-hours



# Disk usage

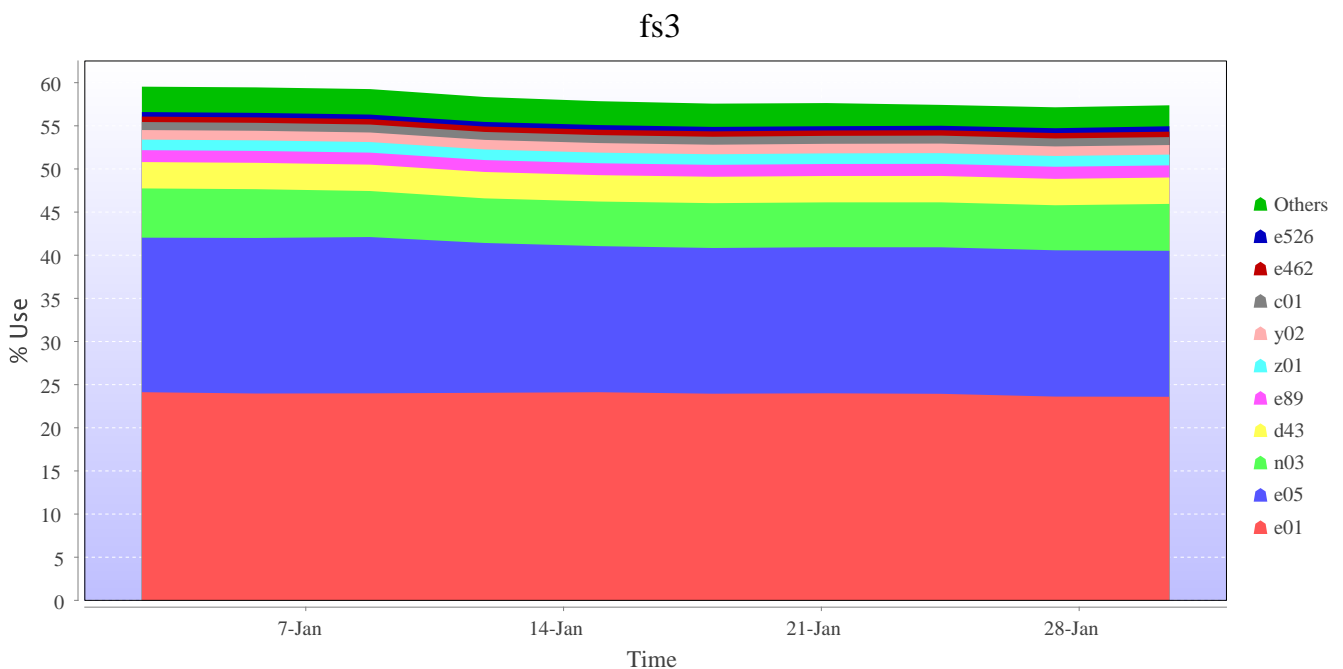
## Disk usage for work ( fs2 )

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.



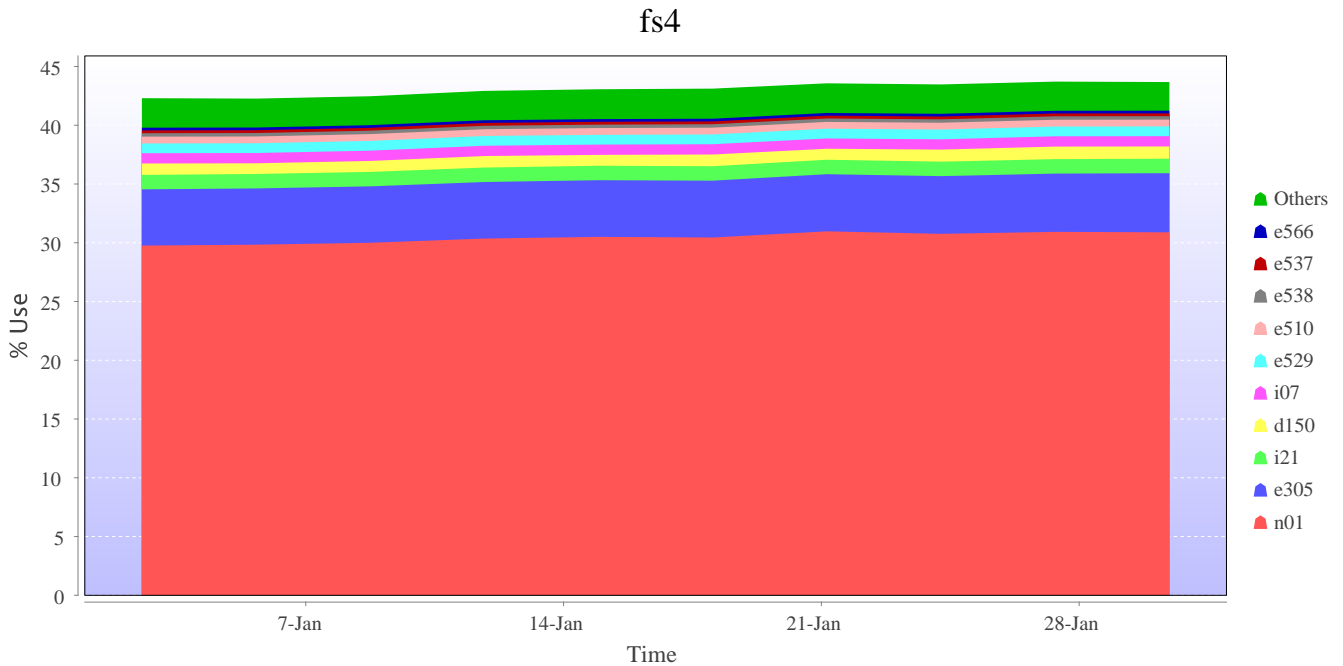
## Disk usage for work ( fs3 )

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.



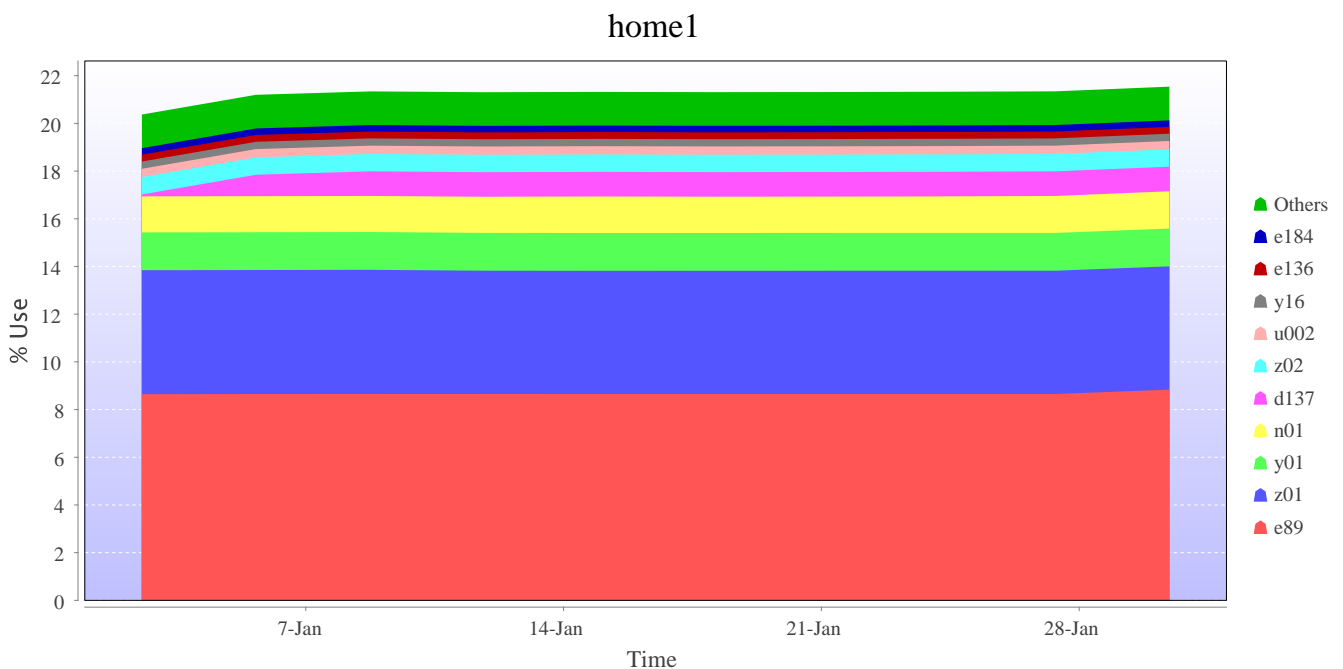
## Disk usage for work ( fs4 )

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.



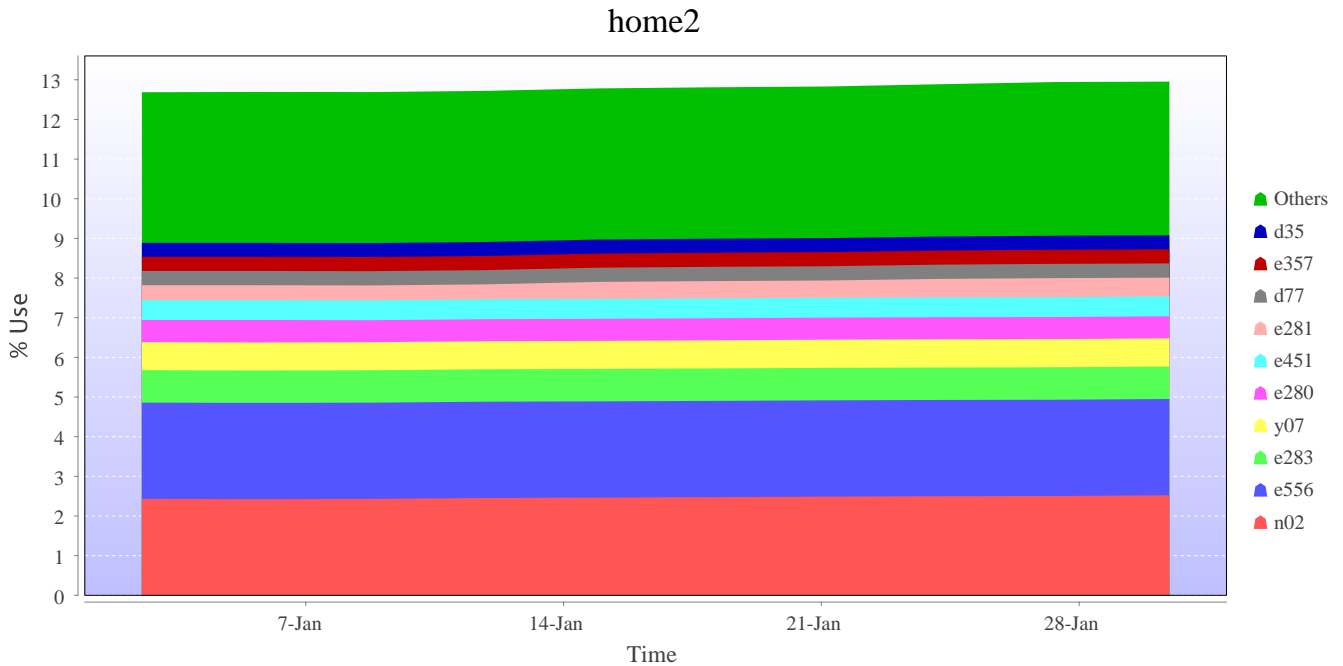
## Disk usage for home ( home1 )

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.



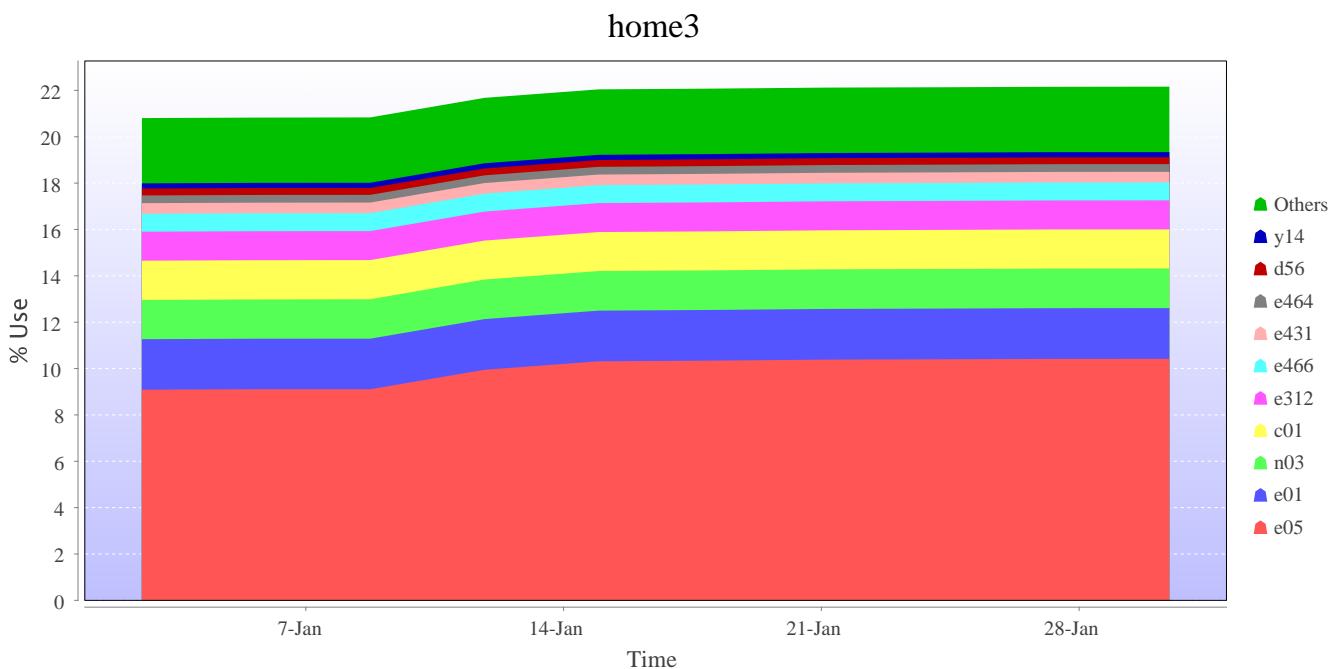
## Disk usage for home ( home2 )

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.

