

# Monthly Reporting

## Report from 01 May 2018 to 31 May 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.

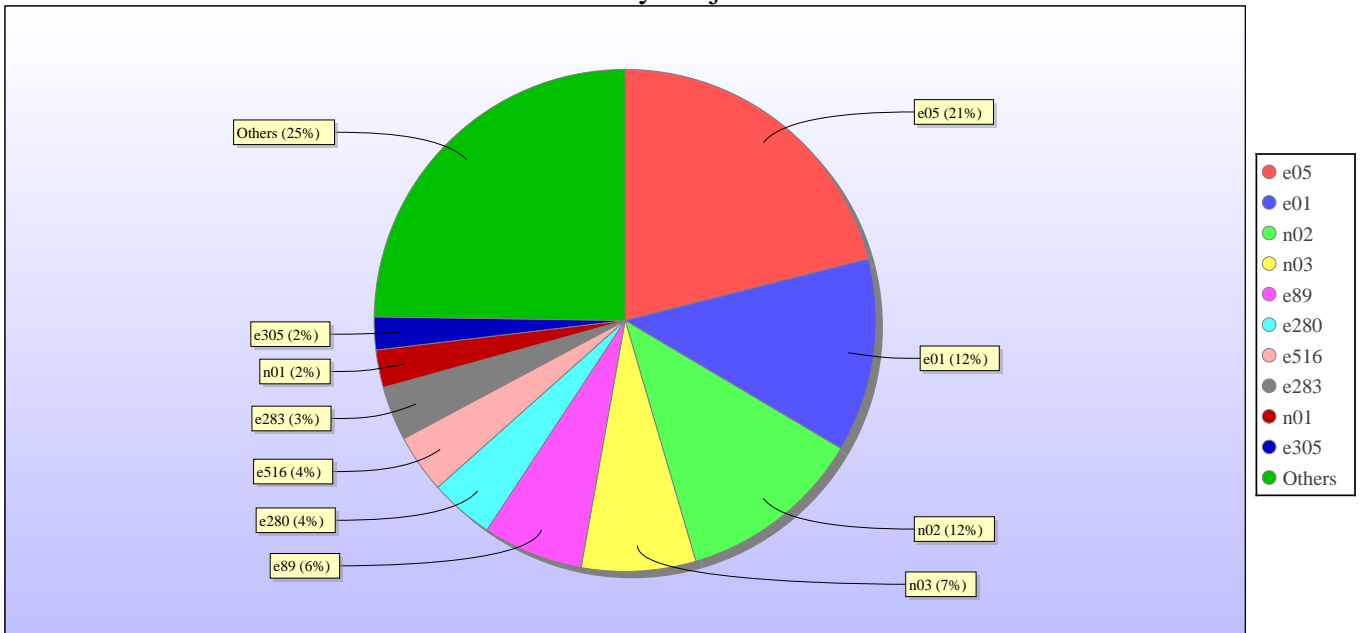
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	2,398	140,059.0	10.63%	141,406.8	10.73%	72,719.4	5.52%
e05	Consortia	10,504	214,760.1	16.30%	238,953.1	18.13%	222,092.2	16.85%
e89	Consortia	3,962	73,337.5	5.57%	73,396.2	5.57%	95,452.0	7.24%
e280	Consortia	1,736	46,951.1	3.56%	46,951.3	3.56%	40,138.6	3.05%
e281	Consortia	634	11,613.8	0.88%	11,616.2	0.88%	21,502.9	1.63%
e283	Consortia	1,428	39,661.8	3.01%	39,661.8	3.01%	17,188.8	1.30%
e305	Consortia	843	23,993.5	1.82%	23,996.2	1.82%	22,223.9	1.69%
e529	Consortia	56	6,189.7	0.47%	6,192.0	0.47%	5,117.2	0.39%
e585	Consortia	228	2,930.0	0.22%	2,930.0	0.22%	16,939.9	1.29%
e462	Leadership Awards	231	6,504.8	0.49%	6,561.6	0.50%	6,940.6	0.53%
e464	Leadership Awards	1,157	9,339.9	0.71%	9,343.9	0.71%	5,087.7	0.39%
e507	Leadership Awards	59	1,051.5	0.08%	1,051.5	0.08%	11,965.3	0.91%
e510	Leadership Awards	26	3,323.6	0.25%	3,323.6	0.25%	8,422.0	0.64%
e526	Leadership Awards	0	0.0	0.00%	0.0	0.00%	8,565.5	0.65%
e572	Leadership Awards	276	1,832.9	0.14%	1,832.9	0.14%	1,703.7	0.13%
c01	Class1a	681	3,833.6	0.29%	3,833.6	0.29%	6,475.4	0.49%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	164.9	0.01%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	4,211.0	0.32%
e365	Class1a	8	309.8	0.02%	309.8	0.02%	4,857.6	0.37%
e375	Class1a	6	1,339.1	0.10%	1,339.1	0.10%	1,416.2	0.11%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e429	Class1a	43	4,088.6	0.31%	4,088.6	0.31%	1,053.4	0.08%
e431	Class1a	25	1.9	0.00%	1.9	0.00%	949.1	0.07%
e432	Class1a	210	7,279.5	0.55%	7,279.5	0.55%	9,781.3	0.74%
e448	Class1a	37	15,185.2	1.15%	15,185.2	1.15%	31,691.0	2.40%
e480	Class1a	2	0.6	0.00%	0.6	0.00%	2,045.4	0.16%
e513	Class1a	11	61.0	0.00%	61.0	0.00%	133.2	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	480.1	0.04%
e515	Class1a	20	440.6	0.03%	440.6	0.03%	2,879.0	0.22%
e516	Class1a	466	42,904.4	3.26%	42,904.4	3.26%	13,175.1	1.00%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	134.8	0.01%
e518	Class1a	1	93.0	0.01%	93.0	0.01%	847.0	0.06%
e519	Class1a	57	7,646.8	0.58%	7,646.8	0.58%	16,939.9	1.29%
e520	Class1a	101	6,073.0	0.46%	6,073.0	0.46%	4,318.4	0.33%
e523	Class1a	22	2,891.9	0.22%	2,891.9	0.22%	6,852.4	0.52%
e527	Class1a	40	2,902.5	0.22%	2,902.5	0.22%	1,884.4	0.14%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e530	Class1a	59	3,876.4	0.29%	3,876.4	0.29%	1,016.4	0.08%
e537	Class1a	43	11,271.5	0.86%	11,271.5	0.86%	3,720.0	0.28%
e558	Class1a	68	1,134.9	0.09%	1,135.1	0.09%	756.1	0.06%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	1,956.8	0.15%
e570	Class1a	0	0.0	0.00%	0.0	0.00%	3,748.3	0.28%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	85.2	0.01%
e575	Class1a	0	0.0	0.00%	0.0	0.00%	1,323.9	0.10%
e580	Class1a	0	0.0	0.00%	0.0	0.00%	2,511.0	0.19%
e584	Class1a	20	0.2	0.00%	0.2	0.00%	1,370.4	0.10%
e588	Class1a	87	1,085.6	0.08%	1,085.6	0.08%	1,524.2	0.12%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	171.3	0.01%
e348	Direct Access: ARCHER RAP	92	2,730.1	0.21%	2,730.1	0.21%	5,270.5	0.40%
e484	Direct Access: ARCHER RAP	5	1,898.3	0.14%	1,898.3	0.14%	1,885.3	0.14%
e541	Direct Access: ARCHER RAP	18	903.6	0.07%	903.6	0.07%	2,715.1	0.21%
e542	Direct Access: ARCHER RAP	199	4,461.1	0.34%	4,461.1	0.34%	1,643.8	0.12%
e543	Direct Access: ARCHER RAP	170	4,946.7	0.38%	4,946.7	0.38%	2,142.7	0.16%
e545	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	823.4	0.06%
e546	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,516.2	0.19%
e547	Direct Access: ARCHER RAP	226	1,001.4	0.08%	1,001.4	0.08%	3,794.9	0.29%
e548	Direct Access: ARCHER RAP	842	6,212.1	0.47%	6,212.1	0.47%	2,348.2	0.18%
e549	Direct Access: ARCHER RAP	1	1.9	0.00%	1.9	0.00%	1,664.3	0.13%
e550	Direct Access: ARCHER RAP	2,533	6,222.6	0.47%	6,222.6	0.47%	2,547.9	0.19%
e552	Direct Access: ARCHER RAP	5	1,523.3	0.12%	1,523.3	0.12%	1,516.9	0.12%
e553	Direct Access: ARCHER RAP	167	1,691.9	0.13%	1,691.9	0.13%	3,102.9	0.24%
e564	Direct Access: ARCHER RAP	61	9,279.5	0.70%	9,279.5	0.70%	4,589.3	0.35%
e565	Direct Access: ARCHER RAP	1,372	1,612.1	0.12%	1,612.1	0.12%	5,098.2	0.39%
e566	Direct Access: ARCHER RAP	128	6,757.8	0.51%	6,757.8	0.51%	6,870.7	0.52%
e567	Direct Access: ARCHER RAP	74	8,253.7	0.63%	8,253.7	0.63%	5,123.9	0.39%
e590	Direct Access: ARCHER RAP	97	19.8	0.00%	19.8	0.00%	967.0	0.07%
e593	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	7,664.8	0.58%
e562	Instant Access	0	0.0	0.00%	0.0	0.00%	33.2	0.00%
e563	Instant Access	0	0.0	0.00%	0.0	0.00%	93.6	0.01%
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	205.6	0.02%
e576	Instant Access	6	20.5	0.00%	20.5	0.00%	204.7	0.02%
e577	Instant Access	0	0.0	0.00%	0.0	0.00%	33.9	0.00%
e578	Instant Access	0	0.0	0.00%	0.0	0.00%	205.6	0.02%
e581	Instant Access	0	0.0	0.00%	0.0	0.00%	207.3	0.02%
e582	Instant Access	38	12.5	0.00%	12.5	0.00%	202.2	0.02%
e583	Instant Access	0	0.0	0.00%	0.0	0.00%	201.2	0.02%
e586	Instant Access	0	0.0	0.00%	0.0	0.00%	202.8	0.02%
e587	Instant Access	46	302.9	0.02%	302.9	0.02%	202.1	0.02%
e591	Instant Access	0	0.0	0.00%	0.0	0.00%	65.2	0.00%
e538	Training	0	0.0	0.00%	0.0	0.00%	2,896.7	0.22%
e556	Training	19	387.5	0.03%	946.4	0.07%	2,596.9	0.20%
e573	Training	660	2,689.6	0.20%	2,816.8	0.21%	1,917.7	0.15%

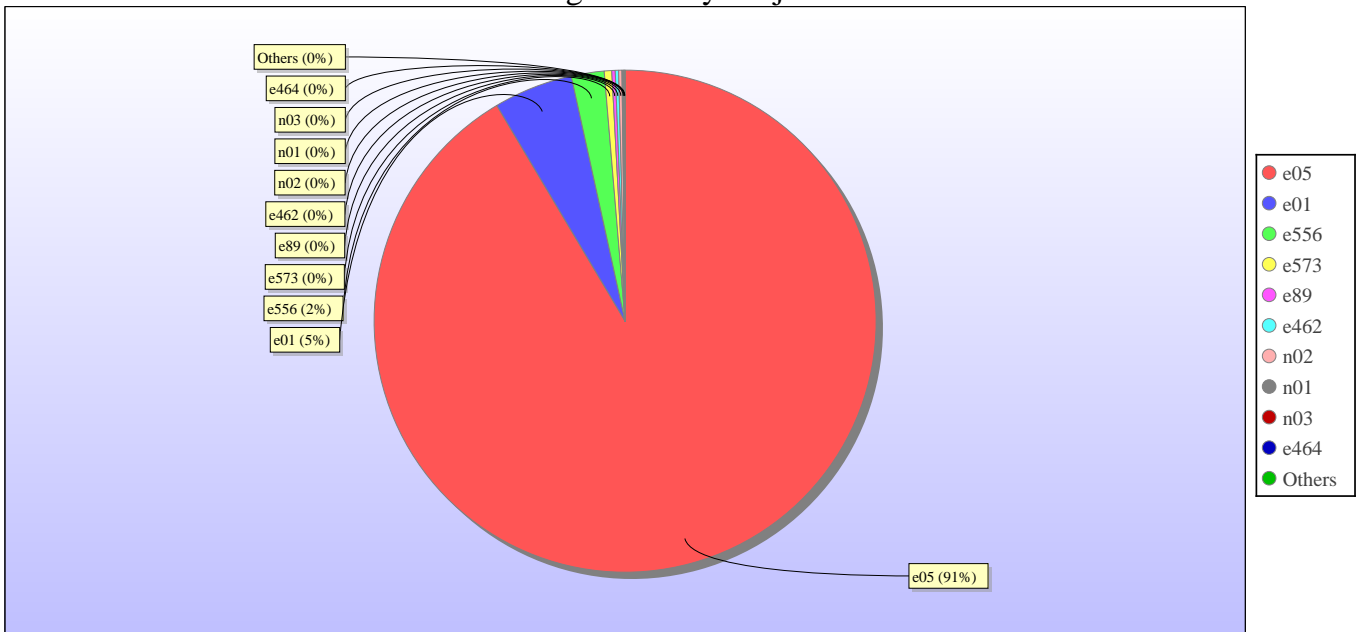
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e589	Training	52	5.5	0.00%	5.5	0.00%	762.3	0.06%
z17	Service	56	8,174.5	0.62%	8,174.5	0.62%	8,565.5	0.65%
<b>EPSRC Total</b>		<b>32,412</b>	<b>763,077.5</b>	<b>57.91%</b>	<b>789,431.6</b>	<b>59.91%</b>	<b>774,038.1</b>	<b>58.74%</b>
n01	Consortia	18,861	28,792.9	2.18%	27,443.9	2.08%	110,835.6	8.41%
n02	Consortia	22,537	136,648.3	10.37%	135,376.2	10.27%	118,904.1	9.02%
n03	Consortia	2,484	83,552.0	6.34%	83,556.1	6.34%	90,027.4	6.83%
<b>NERC Total</b>		<b>43,882</b>	<b>248,993.2</b>	<b>18.90%</b>	<b>246,376.2</b>	<b>18.70%</b>	<b>319,767.1</b>	<b>24.27%</b>
e568	Research	527	13,565.2	1.03%	13,565.2	1.03%	3,893.8	0.30%
<b>BBSRC Total</b>		<b>527</b>	<b>13,565.2</b>	<b>1.03%</b>	<b>13,565.2</b>	<b>1.03%</b>	<b>3,893.8</b>	<b>0.30%</b>
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%
pr1u1452	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	4,259.9	0.32%
pr1u1453	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	10,045.9	0.76%
pr1u1455	DECI: EXEC	275	566.3	0.04%	566.3	0.04%	973.4	0.07%
pr1u1456	DECI: EXEC	36	8,009.6	0.61%	8,009.6	0.61%	4,589.1	0.35%
pr1u1457	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	250.5	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	195.4	0.01%
pr1utd02	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	188.5	0.01%
pr1u1364	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1402	DECI: HOME	0	0.0	0.00%	0.0	0.00%	857.3	0.07%
pr1u1403	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1404	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1405	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1406	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1407	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1408	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1409	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1410	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1411	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
<b>PRACE Total</b>		<b>311</b>	<b>8,575.8</b>	<b>0.65%</b>	<b>8,575.8</b>	<b>0.65%</b>	<b>21,463.0</b>	<b>1.63%</b>
ecse1001	Consortia	0	0.0	0.00%	0.0	0.00%	436.9	0.03%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	39.0	0.00%
ecse0820	eCSE	0	0.0	0.00%	0.0	0.00%	36.0	0.00%
ecse0904	eCSE	3	201.6	0.02%	201.6	0.02%	42.6	0.00%
ecse0910	eCSE	5	0.0	0.00%	0.0	0.00%	77.1	0.01%
ecse0919	eCSE	0	0.0	0.00%	0.0	0.00%	36.4	0.00%
ecse1002	eCSE	64	958.2	0.07%	958.2	0.07%	209.3	0.02%
ecse1012	eCSE	0	0.0	0.00%	0.0	0.00%	27.7	0.00%
ecse1101	eCSE	0	0.0	0.00%	0.0	0.00%	281.9	0.02%
ecse1109	eCSE	3	0.1	0.00%	0.1	0.00%	41.1	0.00%
ecse1112	eCSE	0	0.0	0.00%	0.0	0.00%	52.1	0.00%
ecse1204	eCSE	0	0.0	0.00%	0.0	0.00%	22.1	0.00%
ecse1208	eCSE	10	0.1	0.00%	0.1	0.00%	56.5	0.00%
ecse1209	eCSE	57	80.8	0.01%	80.8	0.01%	33.4	0.00%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	742.1	0.06%
ecse1217	eCSE	0	0.0	0.00%	0.0	0.00%	17.3	0.00%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	39.5	0.00%
<b>eCSE Total</b>		<b>142</b>	<b>1,240.7</b>	<b>0.09%</b>	<b>1,240.7</b>	<b>0.09%</b>	<b>2,190.9</b>	<b>0.17%</b>
d43	ECDF	20	654.7	0.05%	654.7	0.05%	2,547.9	0.19%
d25	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d35	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d56	Research	7	857.5	0.07%	857.5	0.07%	7,709.0	0.58%
d60	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d67	Research	30	5.1	0.00%	5.1	0.00%	297.3	0.02%
d71	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d87	Research	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
d88	Research	46	10.0	0.00%	10.0	0.00%	13.4	0.00%
d100	Research	6	1.4	0.00%	1.4	0.00%	171.3	0.01%
d101	Research	39	69.5	0.01%	69.5	0.01%	509.6	0.04%
d107	Research	75	12.4	0.00%	12.4	0.00%	424.7	0.03%
d114	Research	685	18,546.1	1.41%	18,546.3	1.41%	9,026.5	0.68%
d118	Research	2	0.1	0.00%	0.1	0.00%	105.4	0.01%
d137	Research	99	585.8	0.04%	585.8	0.04%	2,547.9	0.19%

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d142	Research	40	364.2	0.03%	364.2	0.03%	8,565.5	0.65%
d143	Research	246	6,674.4	0.51%	6,677.0	0.51%	5,065.4	0.38%
d145	Research	0	0.0	0.00%	0.0	0.00%	254.8	0.02%
d149	Research	0	0.0	0.00%	0.0	0.00%	635.1	0.05%
d150	Research	45	8,114.7	0.62%	8,114.7	0.62%	8,222.9	0.62%
d155	Research	5,758	1,779.0	0.14%	1,779.0	0.14%	1,698.6	0.13%
d166	Research	15	1,527.9	0.12%	1,527.9	0.12%	2,030.2	0.15%
d421	Research	0	0.0	0.00%	0.0	0.00%	1,642.3	0.12%
d153	Industrial	0	0.0	0.00%	0.0	0.00%	1,252.8	0.10%
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%	42.5	0.00%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,761.8	0.13%
i18	Industrial	82	1,356.5	0.10%	1,356.5	0.10%	2,932.7	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	102.3	0.01%
i21	Industrial	8,584	34,138.3	2.59%	22,758.8	1.73%	68,065.2	5.17%
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%
x08	Industrial	0	0.0	0.00%	0.0	0.00%	1,367.9	0.10%
d74	Training	4	21.8	0.00%	21.8	0.00%	169.9	0.01%
d104	Training	133	3.7	0.00%	3.7	0.00%	795.0	0.06%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d154	Training	23	2.3	0.00%	2.3	0.00%	253.4	0.02%
d131	Service	97	68.9	0.01%	68.9	0.01%	911.9	0.07%
d134	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
w16	Service	0	0.0	0.00%	0.0	0.00%	277.1	0.02%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
y07	Service	42	0.0	0.00%	0.7	0.00%	8.5	0.00%
z02	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
z99	Service	24	0.9	0.00%	0.9	0.00%	8.5	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
e579	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	95.6	0.01%
DirectorsTime Total		16,102	74,795.1	5.68%	63,419.3	4.81%	131,163.2	9.95%
y14	Training	1,818	729.8	0.06%	494.2	0.04%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
z19	Service	541	11,621.3	0.88%	11,623.9	0.88%	3,397.3	0.26%
CSE Total		2,359	12,351.1	0.94%	12,118.1	0.92%	4,416.4	0.34%
Total		95,735	1,122,598.6	85.19%	1,134,727.0	86.11%	1,256,932.5	95.38%

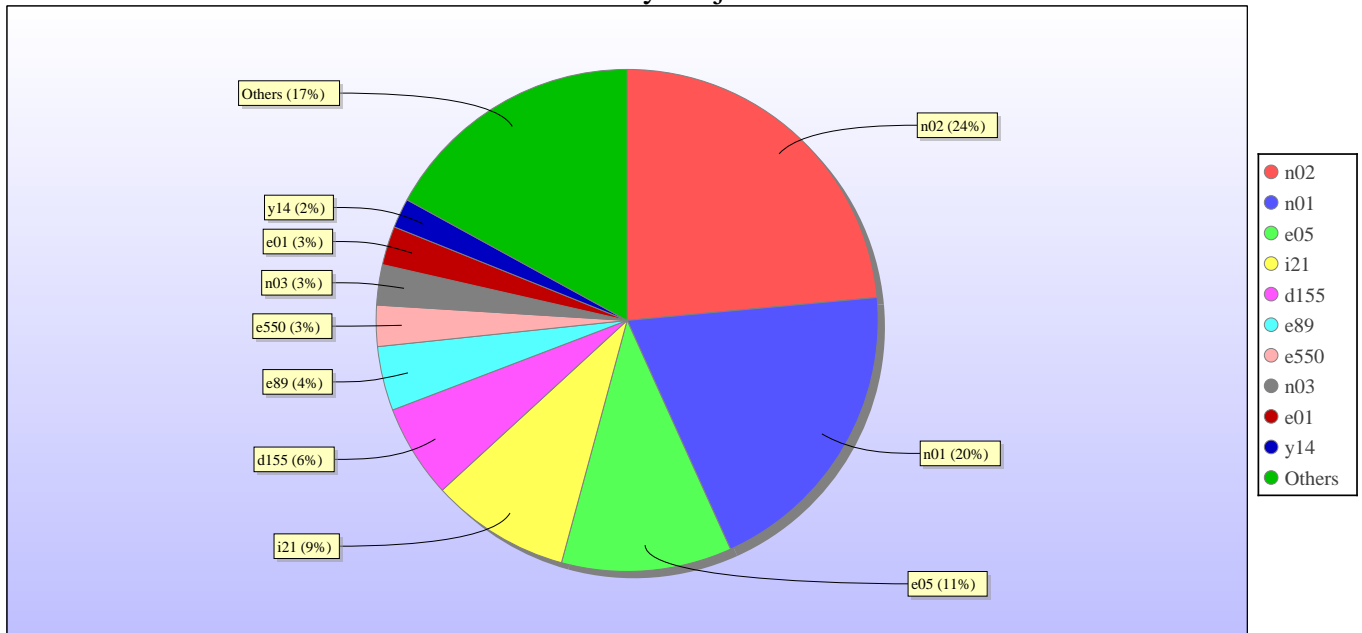
Use by Project



Uncharged Use by Project



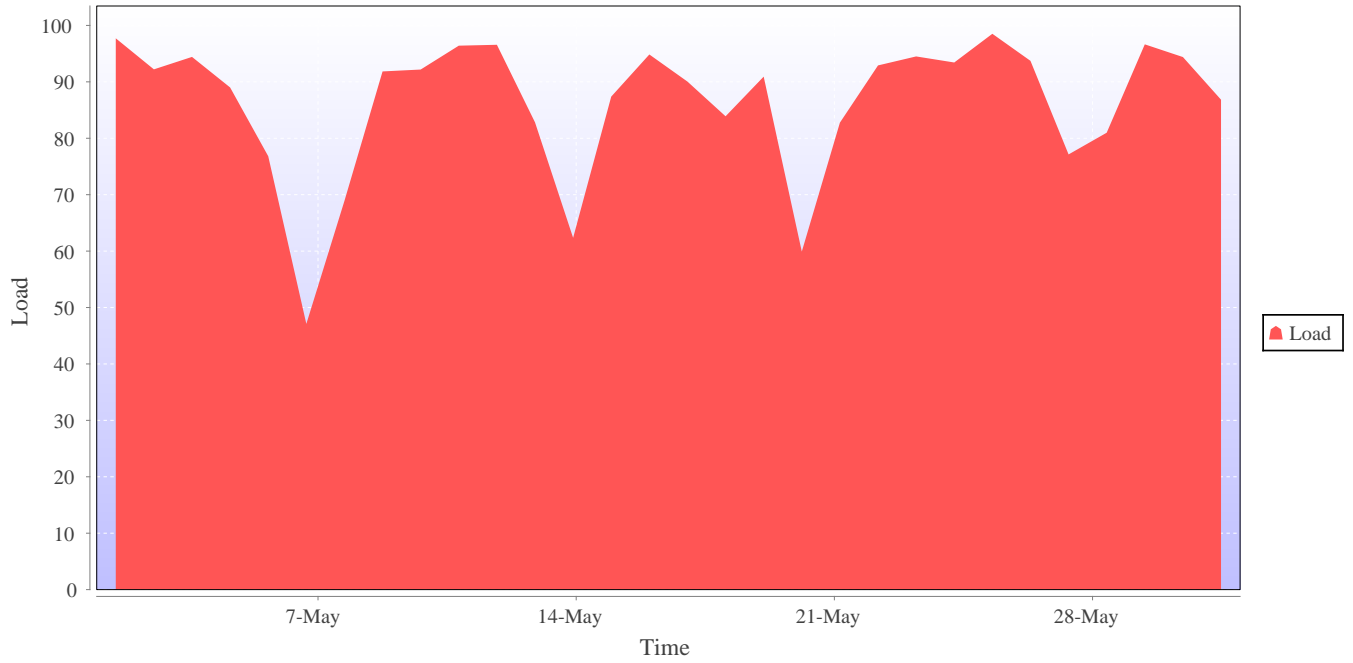
### Jobs by Project



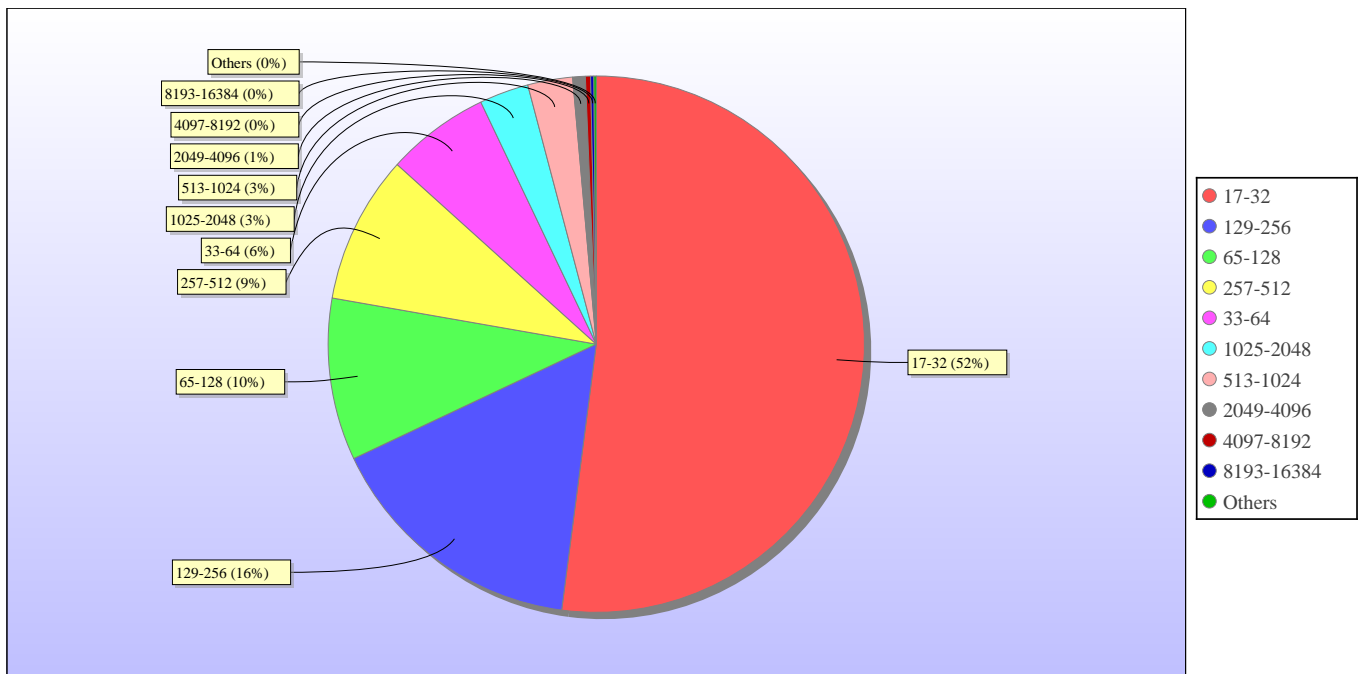
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	11,988.244	49,832
33-64	18,982.712	5,966
65-128	68,032.626	9,351
129-256	134,677.112	15,244
257-512	229,743.907	8,545
513-1024	169,209.094	2,589
1025-2048	211,684.585	2,842
2049-4096	123,580.588	728
4097-8192	58,790.41	296
8193-16384	31,806.999	187
16385-32768	14,270.032	79
32769-65536	6,862.361	60

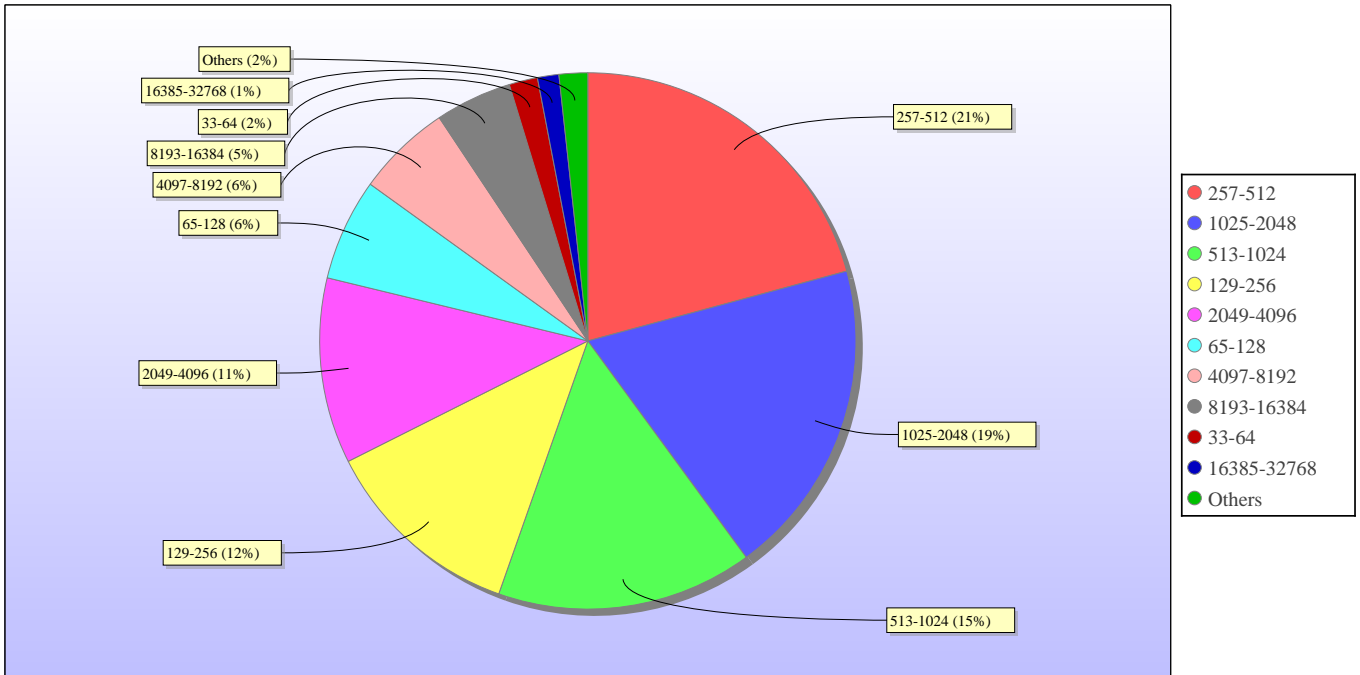
## Load plots



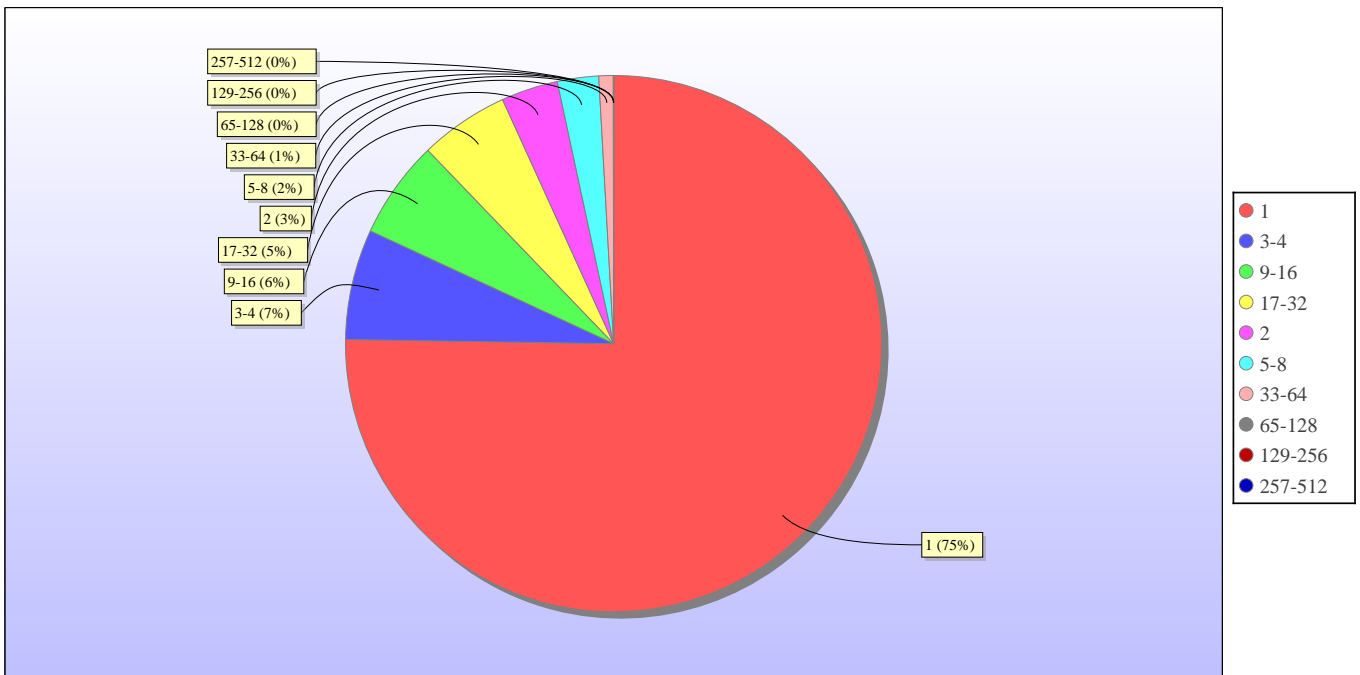
Percentage load on machine



Jobs by Size

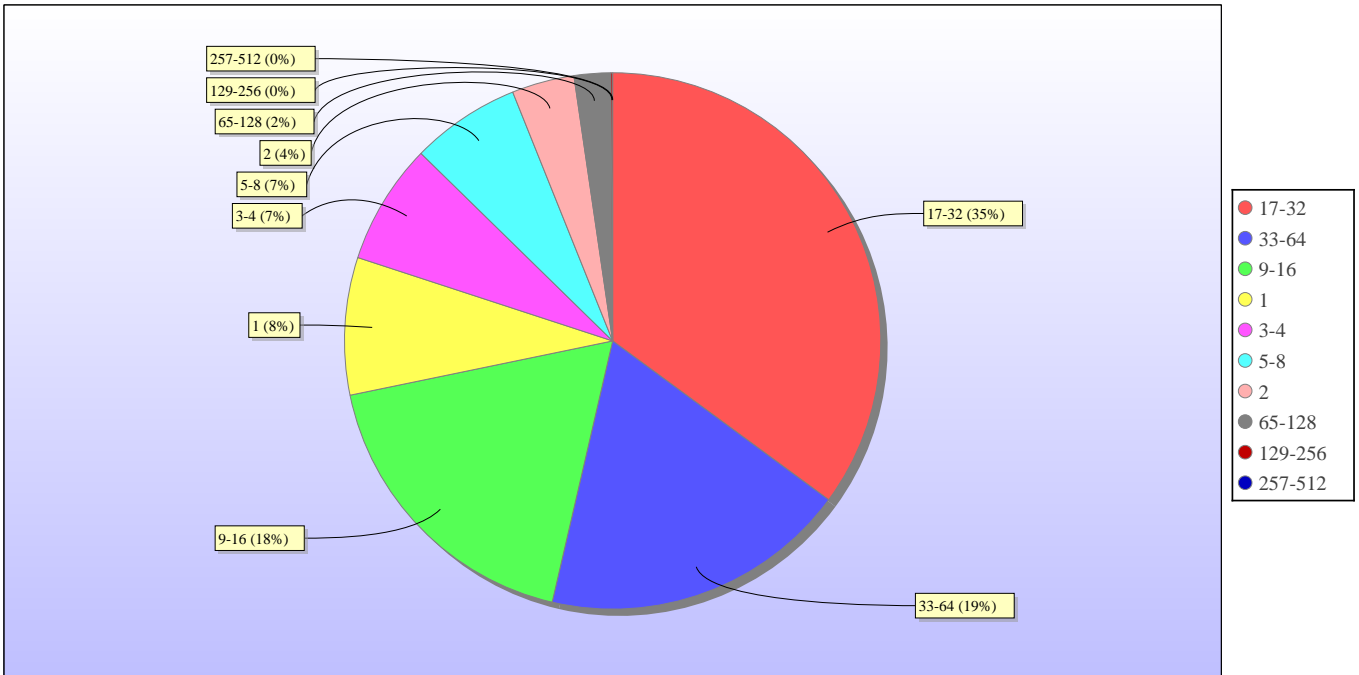


kAUs used by Size

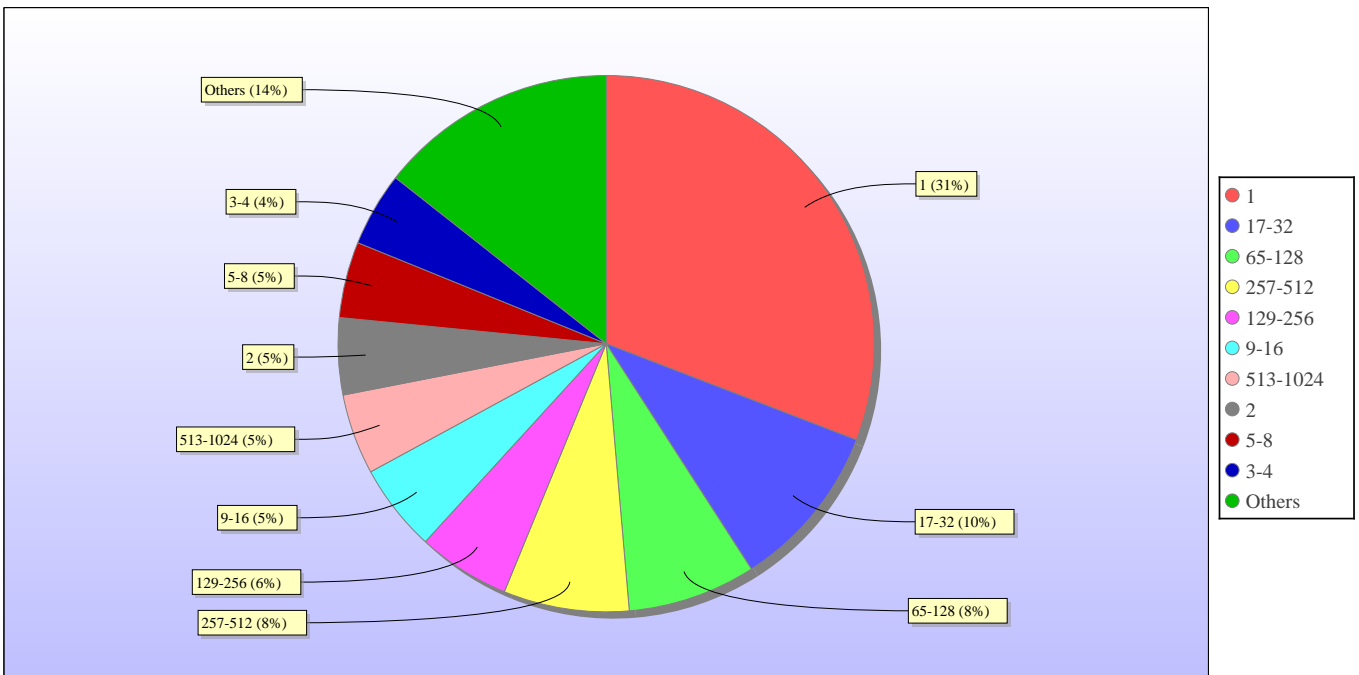


Jobs grouped by wall-clock-hours

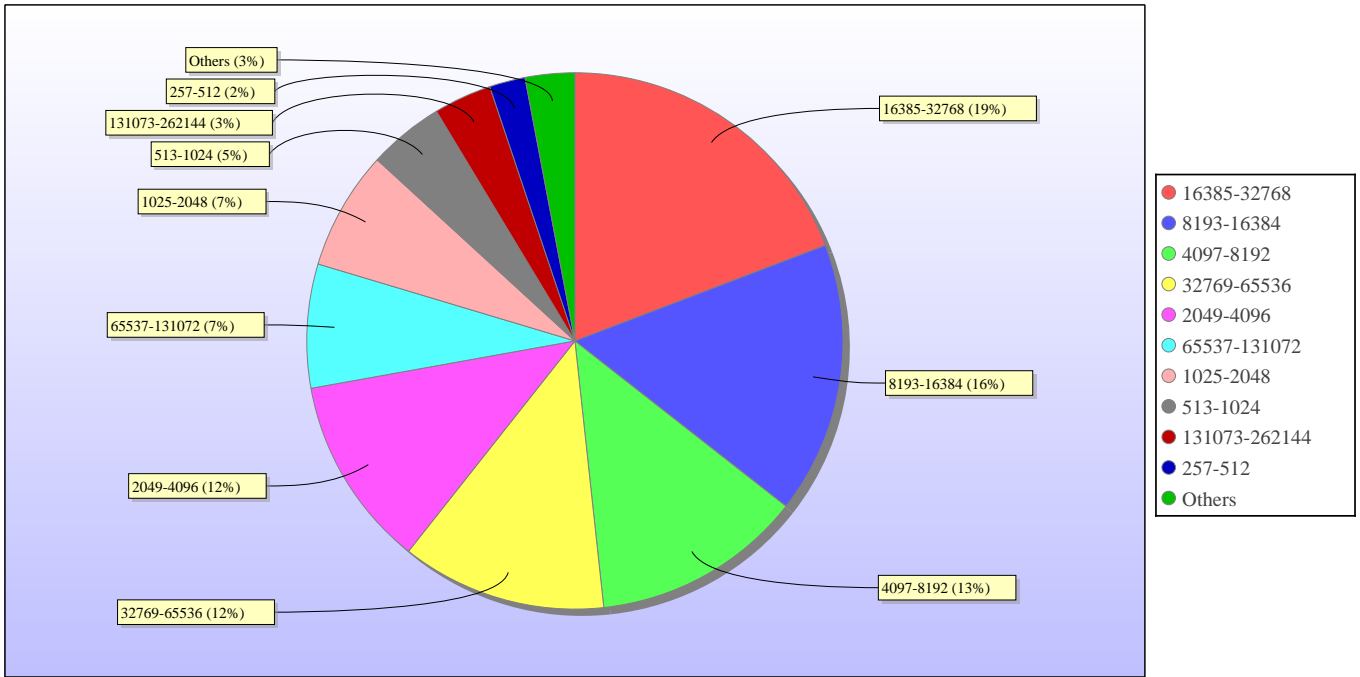




kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

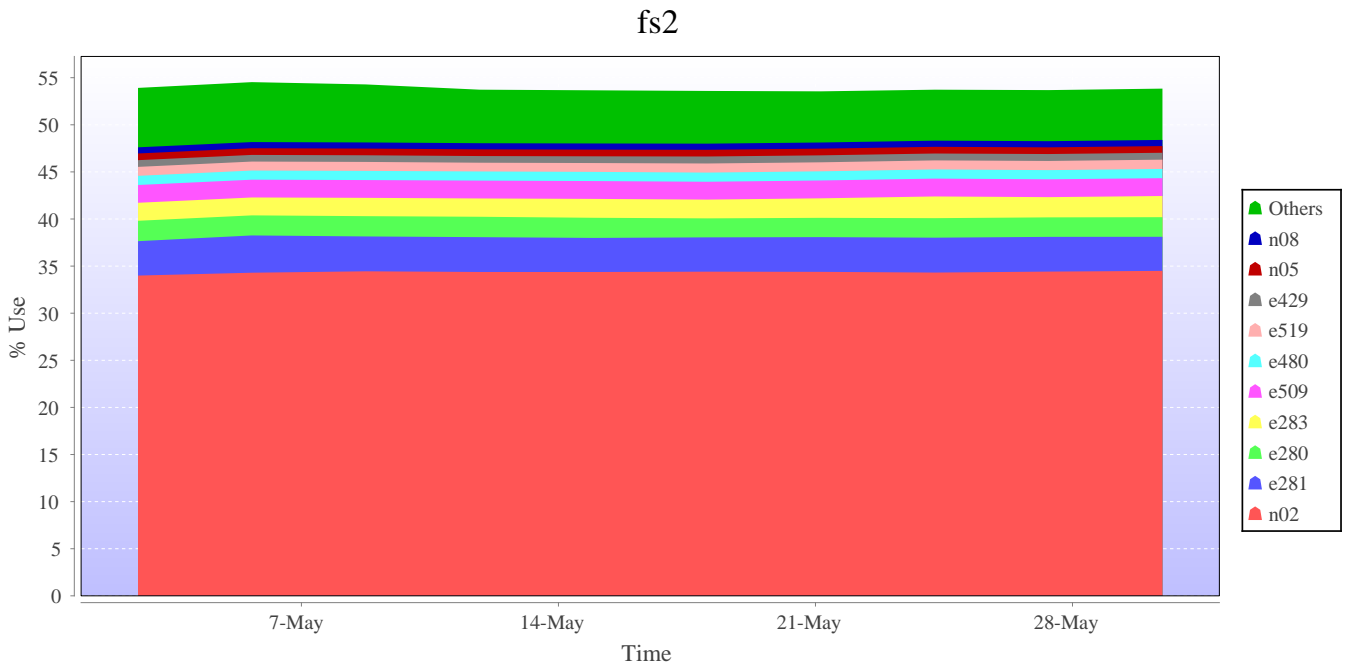


kAUs used grouped by core-hours

# Disk usage

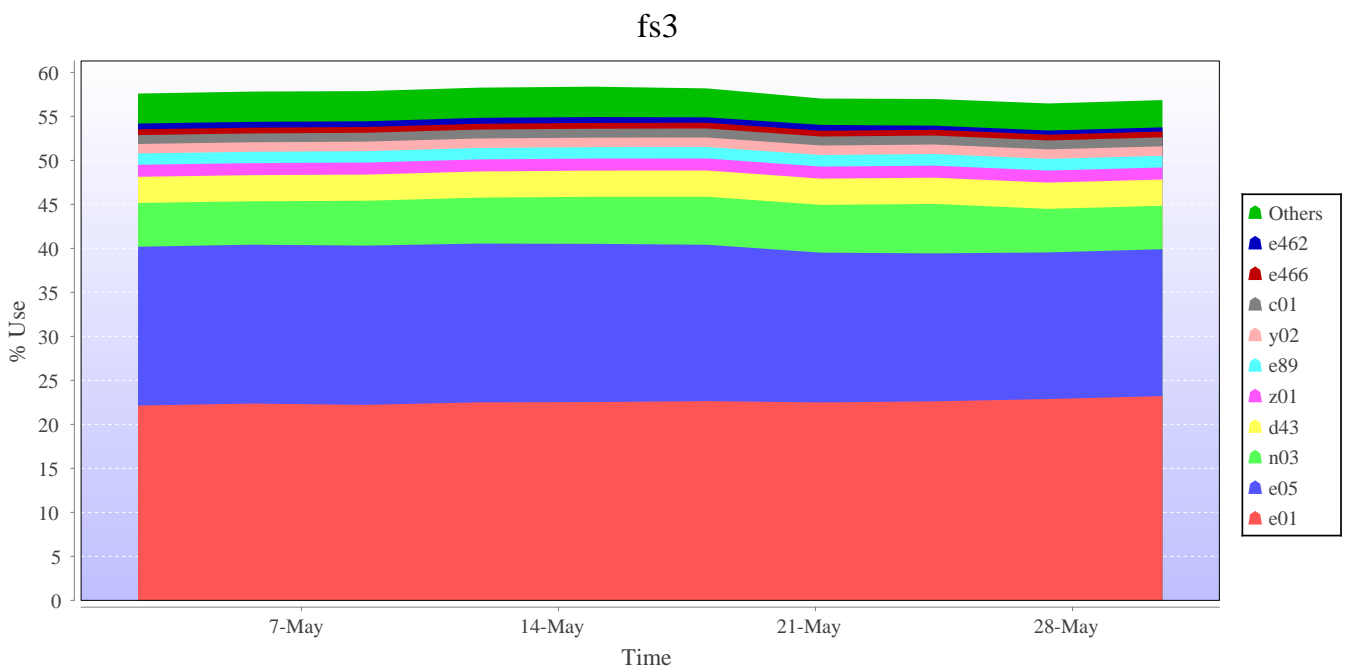
## Disk usage for work ( fs2 )

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.



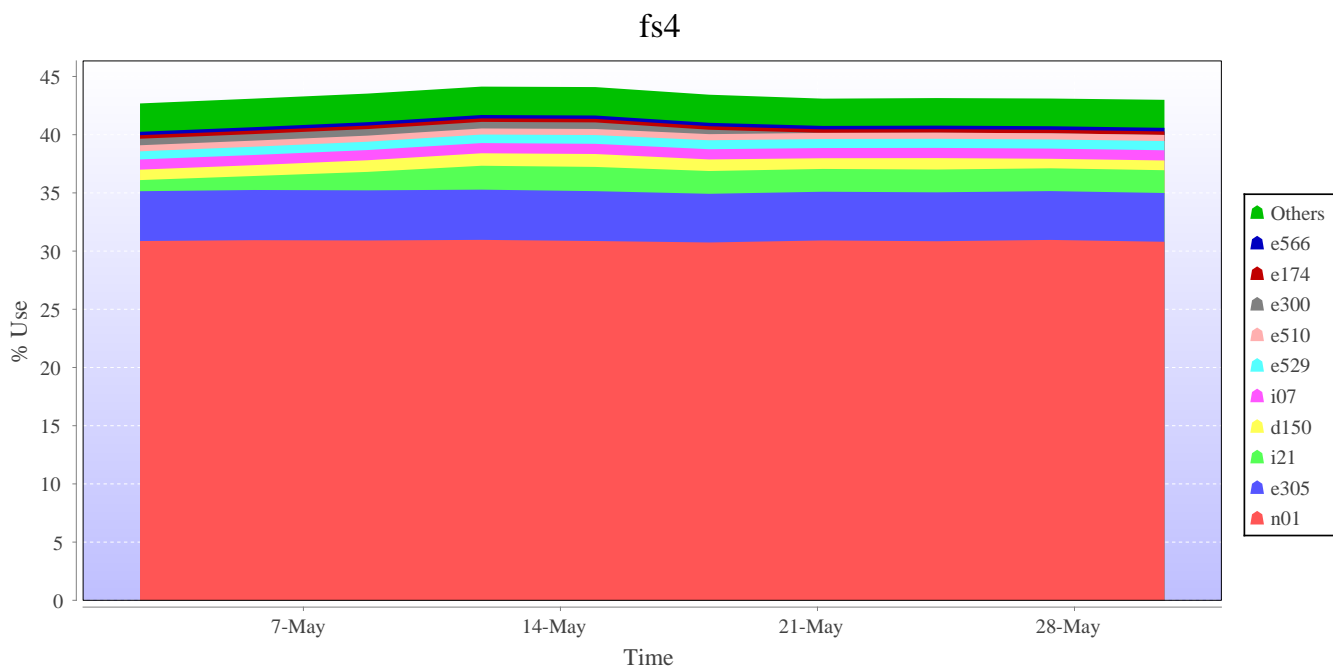
## Disk usage for work ( fs3 )

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.



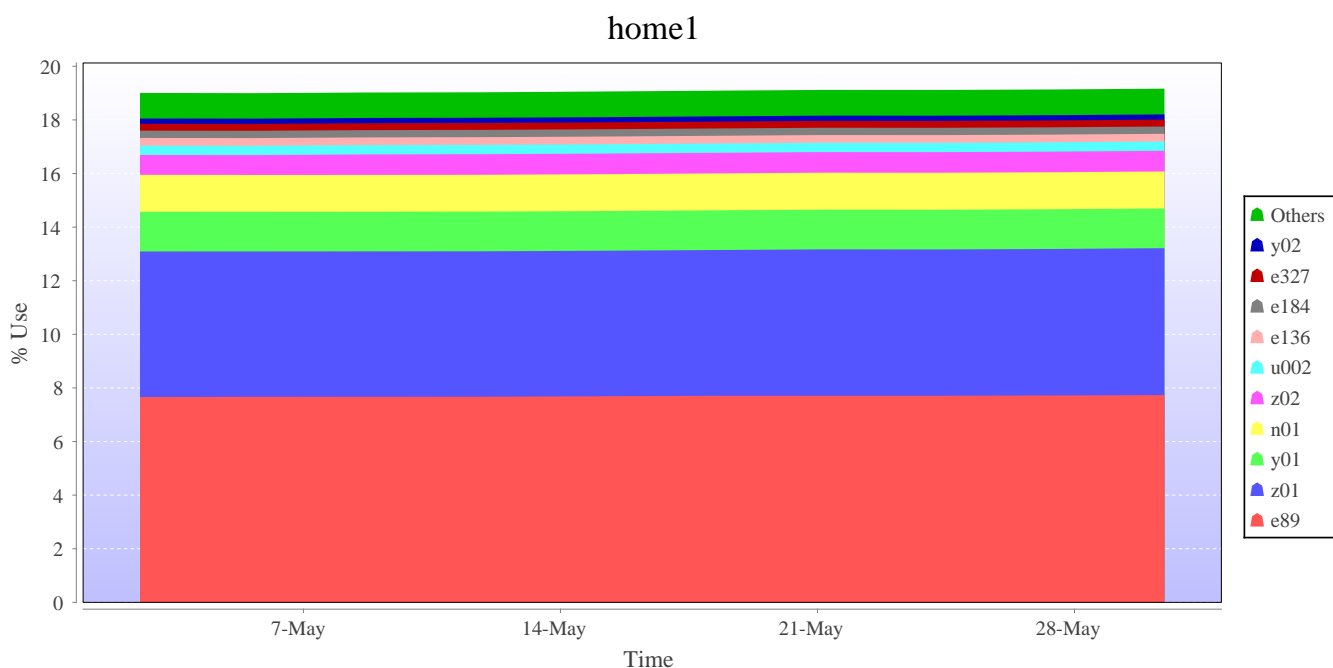
## Disk usage for work ( fs4 )

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.



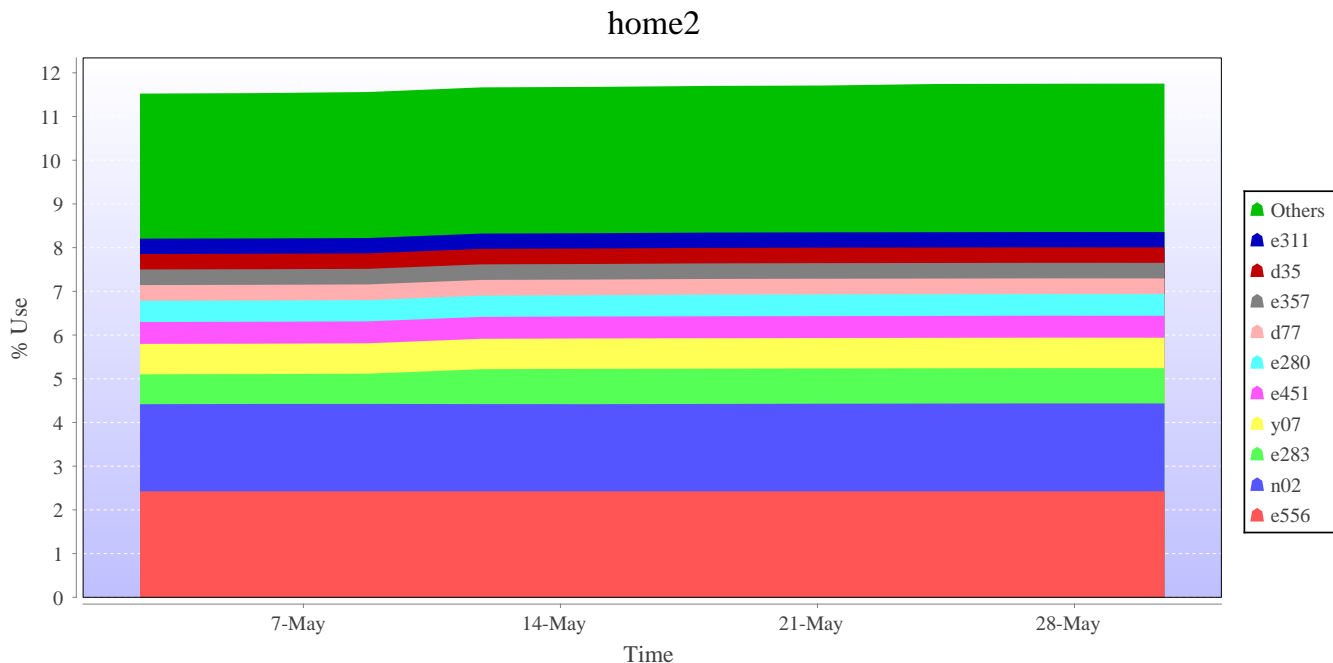
## Disk usage for home ( home1 )

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.



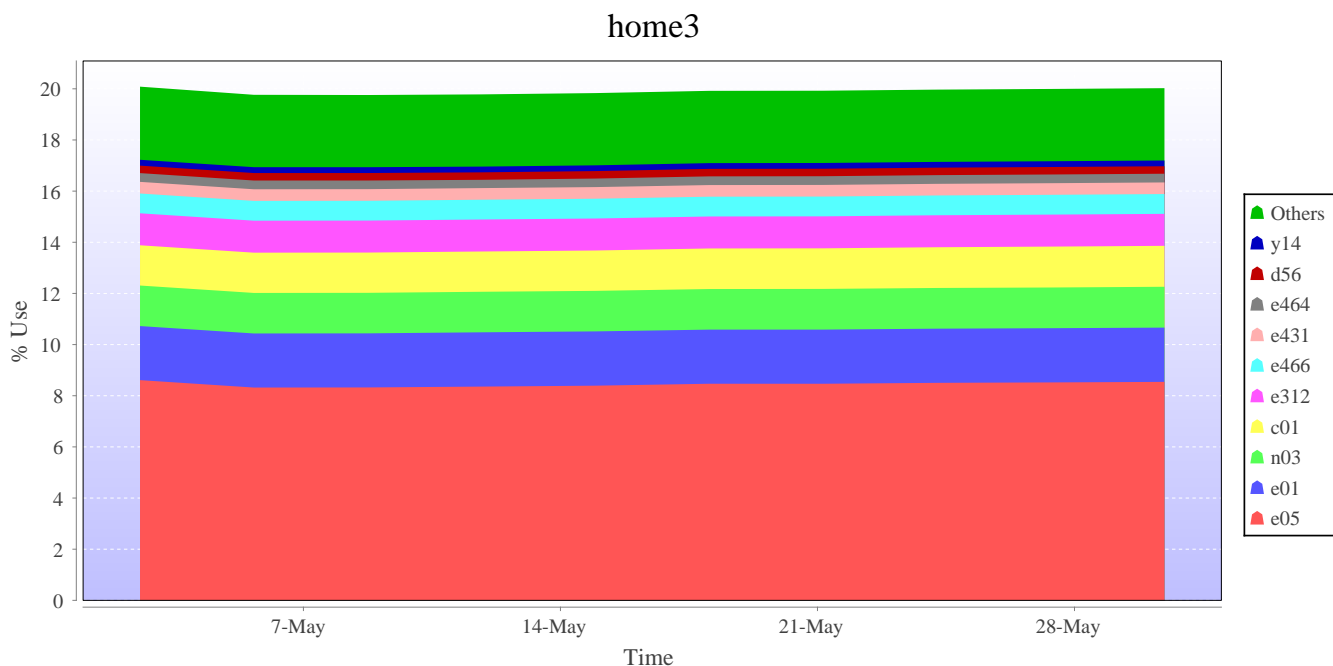
## Disk usage for home ( home2 )

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.

