

# Monthly Reporting

## Report from 01 January 2018 to 31 January 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.

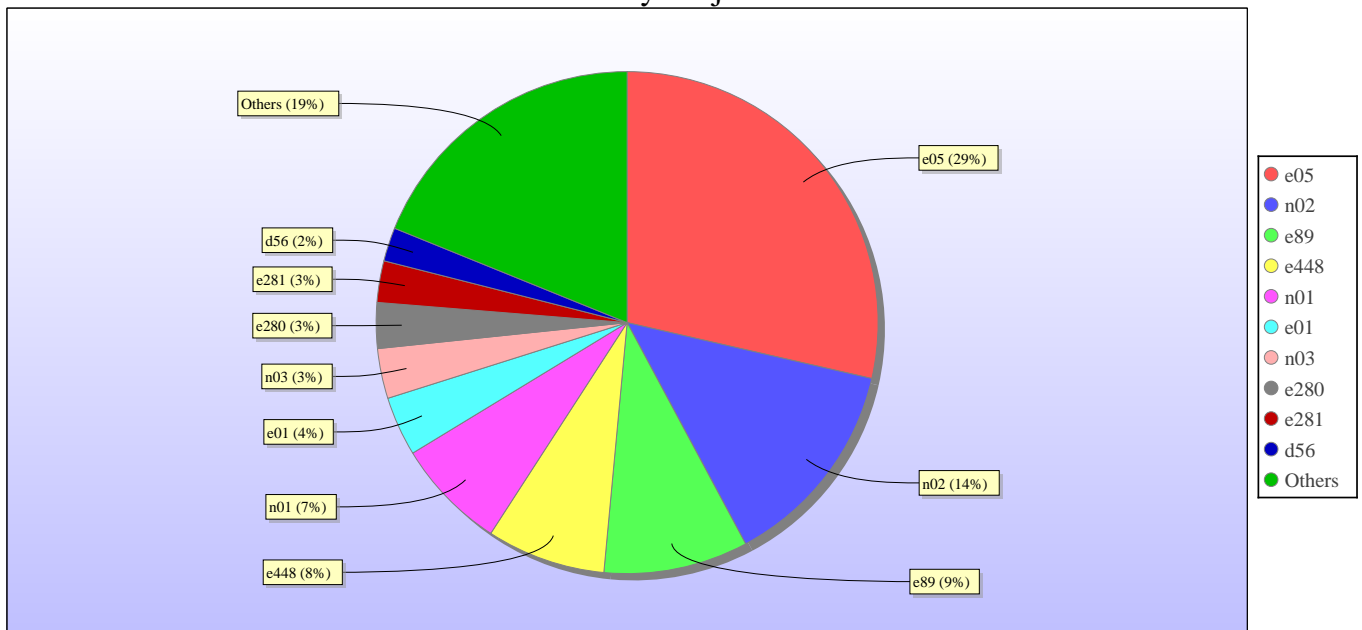
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	797	42,049.1	3.19%	43,510.6	3.30%	97,232.7	7.38%
e05	Consortia	12,007	299,686.0	22.74%	324,959.4	24.66%	217,886.1	16.53%
e89	Consortia	15,519	104,683.6	7.94%	105,869.8	8.03%	121,640.0	9.23%
e280	Consortia	354	33,410.5	2.54%	33,411.3	2.54%	40,308.2	3.06%
e281	Consortia	1,394	30,436.2	2.31%	30,445.2	2.31%	21,502.9	1.63%
e283	Consortia	290	2,683.8	0.20%	2,684.5	0.20%	17,270.3	1.31%
e305	Consortia	1,136	12,106.2	0.92%	12,115.0	0.92%	22,223.9	1.69%
e529	Consortia	12	2,148.4	0.16%	2,148.4	0.16%	10,273.9	0.78%
e462	Leadership Awards	237	4,471.7	0.34%	4,505.3	0.34%	6,940.6	0.53%
e464	Leadership Awards	73	276.1	0.02%	276.1	0.02%	5,087.7	0.39%
e507	Leadership Awards	107	5,840.5	0.44%	5,840.5	0.44%	10,106.4	0.77%
e509	Leadership Awards	1	8.5	0.00%	8.5	0.00%	18,736.3	1.42%
e510	Leadership Awards	0	0.0	0.00%	0.0	0.00%	8,565.5	0.65%
e526	Leadership Awards	64	12,322.3	0.94%	12,322.3	0.94%	5,137.4	0.39%
e572	Leadership Awards	0	0.0	0.00%	0.0	0.00%	1,703.7	0.13%
c01	Class1a	778	2,881.3	0.22%	2,881.3	0.22%	6,475.4	0.49%
e174	Class1a	1	0.0	0.00%	0.1	0.00%	0.5	0.00%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	463.6	0.04%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	164.9	0.01%
e304	Class1a	17	249.0	0.02%	249.0	0.02%	5,285.7	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	328.9	0.02%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	4,282.8	0.32%
e358	Class1a	179	3,022.8	0.23%	3,023.6	0.23%	658.1	0.05%
e365	Class1a	299	13,147.7	1.00%	13,147.7	1.00%	4,811.4	0.37%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	3,082.2	0.23%
e378	Class1a	21	107.8	0.01%	107.8	0.01%	4,933.3	0.37%
e403	Class1a	99	72.2	0.01%	72.2	0.01%	8,622.5	0.65%
e429	Class1a	0	0.0	0.00%	0.0	0.00%	1,040.9	0.08%
e431	Class1a	22	2.5	0.00%	2.5	0.00%	949.1	0.07%
e432	Class1a	10	380.2	0.03%	380.2	0.03%	7,026.4	0.53%
e448	Class1a	3,137	87,112.4	6.61%	87,112.4	6.61%	33,568.4	2.55%
e475	Class1a	80	26.0	0.00%	26.0	0.00%	3,467.1	0.26%
e480	Class1a	25	2,069.1	0.16%	2,069.1	0.16%	3,973.5	0.30%
e499	Class1a	0	0.0	0.00%	0.0	0.00%	10,981.9	0.83%
e513	Class1a	24	89.6	0.01%	89.6	0.01%	178.2	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	171.2	0.01%
e515	Class1a	258	127.6	0.01%	127.7	0.01%	842.2	0.06%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e516	Class1a	130	4,615.0	0.35%	4,615.9	0.35%	13,175.1	1.00%
e517	Class1a	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
e518	Class1a	0	0.0	0.00%	0.0	0.00%	511.0	0.04%
e519	Class1a	183	8,616.9	0.65%	8,616.9	0.65%	17,033.0	1.29%
e520	Class1a	3	2,299.3	0.17%	2,299.3	0.17%	4,318.4	0.33%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	6,852.4	0.52%
e527	Class1a	2	1.2	0.00%	1.2	0.00%	1,179.1	0.09%
e530	Class1a	43	2,884.7	0.22%	2,884.7	0.22%	1,022.0	0.08%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,137.8	0.09%
e558	Class1a	31	46.0	0.00%	46.0	0.00%	756.1	0.06%
e570	Class1a	77	6,178.8	0.47%	6,178.8	0.47%	3,748.3	0.28%
e571	Class1a	0	0.0	0.00%	0.0	0.00%	85.2	0.01%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	84.2	0.01%
e348	Direct Access: ARCHER RAP	26	153.9	0.01%	153.9	0.01%	2,797.5	0.21%
e484	Direct Access: ARCHER RAP	3	8.9	0.00%	8.9	0.00%	1,546.5	0.12%
e541	Direct Access: ARCHER RAP	244	2,339.4	0.18%	2,339.4	0.18%	2,715.1	0.21%
e542	Direct Access: ARCHER RAP	171	4,825.1	0.37%	4,825.1	0.37%	1,643.8	0.12%
e543	Direct Access: ARCHER RAP	57	195.3	0.01%	195.3	0.01%	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	39	1,079.6	0.08%	1,079.6	0.08%	2,499.9	0.19%
e547	Direct Access: ARCHER RAP	64	5,137.2	0.39%	5,137.2	0.39%	3,303.9	0.25%
e548	Direct Access: ARCHER RAP	16	534.7	0.04%	534.7	0.04%	2,348.2	0.18%
e549	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,664.3	0.13%
e550	Direct Access: ARCHER RAP	730	1,808.0	0.14%	1,808.0	0.14%	2,547.9	0.19%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,300.4	0.17%
e553	Direct Access: ARCHER RAP	31	1,620.1	0.12%	1,620.1	0.12%	3,102.9	0.24%
e564	Direct Access: ARCHER RAP	10	5,479.3	0.42%	5,479.3	0.42%	4,592.6	0.35%
e565	Direct Access: ARCHER RAP	367	55.5	0.00%	55.5	0.00%	5,139.3	0.39%
e566	Direct Access: ARCHER RAP	66	2,778.2	0.21%	2,778.2	0.21%	6,870.7	0.52%
e567	Direct Access: ARCHER RAP	185	2,224.5	0.17%	2,224.5	0.17%	5,123.9	0.39%
e544	Instant Access	0	0.0	0.00%	0.0	0.00%	87.9	0.01%
e555	Instant Access	7	4.2	0.00%	4.2	0.00%	143.5	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
e559	Instant Access	0	0.0	0.00%	0.0	0.00%	201.0	0.02%
e560	Instant Access	31	2.7	0.00%	2.7	0.00%	204.4	0.02%
e561	Instant Access	0	0.0	0.00%	0.0	0.00%	189.8	0.01%
e562	Instant Access	0	0.0	0.00%	0.0	0.00%	205.6	0.02%
e563	Instant Access	79	222.9	0.02%	222.9	0.02%	207.3	0.02%
e574	Instant Access	0	0.0	0.00%	0.0	0.00%	106.1	0.01%
e576	Instant Access	0	0.0	0.00%	0.0	0.00%	79.2	0.01%
e521	Training	0	0.0	0.00%	0.0	0.00%	1,764.3	0.13%
e538	Training	2	0.0	0.00%	0.0	0.00%	2,896.7	0.22%
e556	Training	106	363.9	0.03%	363.9	0.03%	2,596.9	0.20%
e573	Training	159	438.7	0.03%	438.7	0.03%	383.5	0.03%
<b>EPSRC Total</b>		<b>39,803</b>	<b>713,324.7</b>	<b>54.13%</b>	<b>741,300.7</b>	<b>56.25%</b>	<b>816,064.0</b>	<b>61.93%</b>
n01	Consortia	4,421	82,894.1	6.29%	81,417.3	6.18%	96,227.4	7.30%
n02	Consortia	24,183	155,002.3	11.76%	154,637.4	11.73%	169,693.2	12.88%

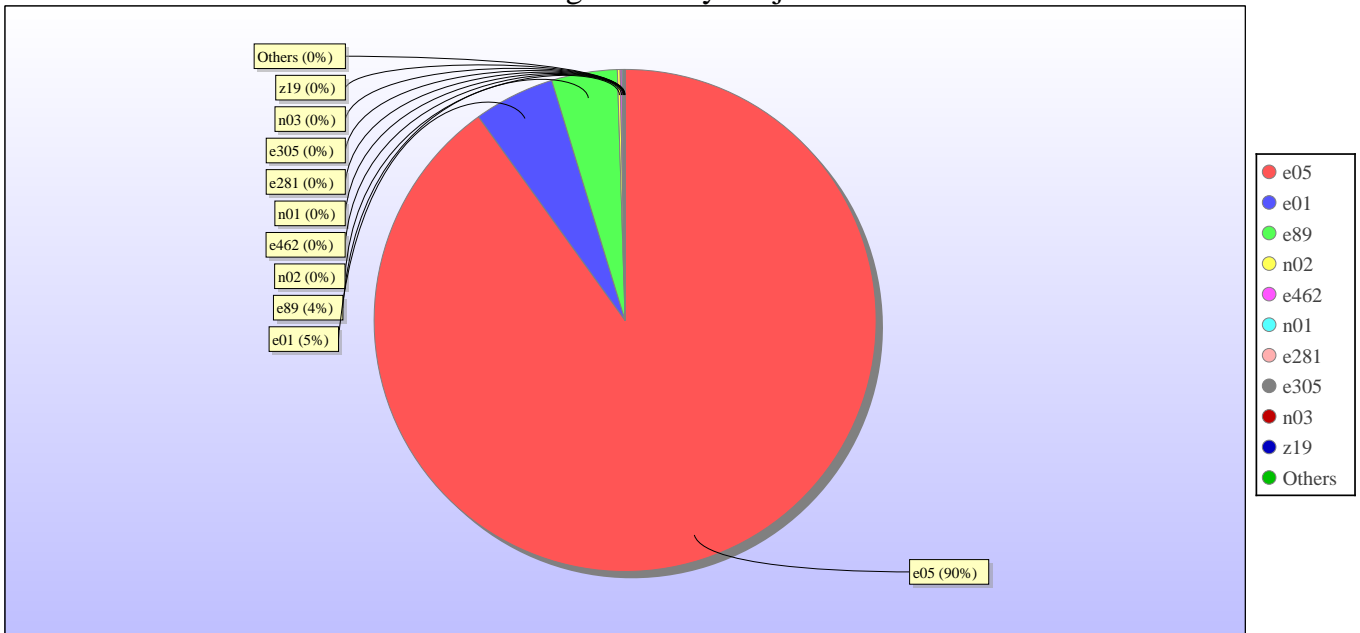
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
n03	Consortia	1,979	36,634.6	2.78%	36,640.9	2.78%	75,249.3	5.71%
<b>NERC Total</b>		<b>30,583</b>	<b>274,531.0</b>	<b>20.83%</b>	<b>272,695.6</b>	<b>20.69%</b>	<b>341,169.9</b>	<b>25.89%</b>
e568	Research	0	0.0	0.00%	0.0	0.00%	3,893.8	0.30%
<b>BBSRC Total</b>		<b>0</b>	<b>0.0</b>	<b>0.00%</b>	<b>0.0</b>	<b>0.00%</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%
pr1u1362	DECI: EXEC	213	1,660.9	0.13%	1,660.9	0.13%	2,111.3	0.16%
pr1u1363	DECI: EXEC	63	1,308.5	0.10%	1,308.5	0.10%	2,691.4	0.20%
pr1u1451	DECI: EXEC	278	12,207.2	0.93%	12,207.2	0.93%	5,653.5	0.43%
pr1u1452	DECI: EXEC	216	7,393.7	0.56%	7,393.7	0.56%	5,653.5	0.43%
pr1u1453	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	14,133.8	1.07%
pr1u1454	DECI: EXEC	60	14,364.9	1.09%	14,364.9	1.09%	6,309.3	0.48%
pr1u1455	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,607.7	0.12%
pr1u1456	DECI: EXEC	1	0.0	0.00%	0.0	0.00%	5,333.6	0.40%
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%
pr1u1311	DECI: HOME	4	6.7	0.00%	6.7	0.00%	607.7	0.05%
pr1u1364	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1401	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>835</b>	<b>36,941.9</b>	<b>2.80%</b>	<b>36,941.9</b>	<b>2.80%</b>	<b>45,696.1</b>	<b>3.47%</b>
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	25.7	0.00%
ecse0803	eCSE	48	1.8	0.00%	1.8	0.00%	46.4	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	69.4	0.01%
ecse0820	eCSE	0	0.0	0.00%	0.0	0.00%	47.1	0.00%
ecse0904	eCSE	12	0.4	0.00%	0.4	0.00%	42.6	0.00%
ecse0910	eCSE	2	1.4	0.00%	1.4	0.00%	40.4	0.00%
ecse0919	eCSE	8	1.6	0.00%	1.6	0.00%	36.4	0.00%
ecse1002	eCSE	13	137.2	0.01%	137.2	0.01%	78.5	0.01%
ecse1109	eCSE	0	0.0	0.00%	0.0	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%
ecse1210	eCSE	0	0.0	0.00%	0.0	0.00%	742.1	0.06%
ecse1220	eCSE	0	0.0	0.00%	0.0	0.00%	39.5	0.00%
<b>eCSE Total</b>		<b>83</b>	<b>142.3</b>	<b>0.01%</b>	<b>142.3</b>	<b>0.01%</b>	<b>1,283.2</b>	<b>0.10%</b>
d43	ECDF	163	3,669.5	0.28%	3,669.6	0.28%	2,547.9	0.19%
d25	Research	13	97.1	0.01%	97.1	0.01%	424.7	0.03%
d35	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d56	Research	1,888	24,692.9	1.87%	24,692.9	1.87%	6,852.4	0.52%
d60	Research	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
d67	Research	22	2.0	0.00%	2.0	0.00%	169.9	0.01%
d71	Research	143	986.4	0.07%	986.4	0.07%	84.9	0.01%
d87	Research	4	0.0	0.00%	0.3	0.00%	0.1	0.00%
d88	Research	12	1.2	0.00%	1.2	0.00%	13.4	0.00%
d101	Research	111	1,023.8	0.08%	1,023.8	0.08%	424.7	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d114	Research	158	14,763.3	1.12%	14,765.8	1.12%	9,026.5	0.68%
d118	Research	0	0.0	0.00%	0.0	0.00%	105.4	0.01%
d137	Research	8	12.6	0.00%	12.6	0.00%	2,547.9	0.19%
d142	Research	146	10,586.2	0.80%	10,586.3	0.80%	8,565.5	0.65%
d143	Research	12	135.4	0.01%	135.4	0.01%	4,282.8	0.32%
d145	Research	0	0.0	0.00%	0.0	0.00%	254.8	0.02%
d146	Research	0	0.0	0.00%	0.0	0.00%	344.6	0.03%
d149	Research	66	8,286.5	0.63%	8,286.5	0.63%	4,246.6	0.32%

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d150	Research	91	16,588.1	1.26%	16,588.1	1.26%	8,222.9	0.62%
d155	Research	94	957.3	0.07%	957.3	0.07%	849.3	0.06%
d421	Research	0	0.0	0.00%	0.0	0.00%	476.8	0.04%
d153	Industrial	0	0.0	0.00%	0.0	0.00%	1,252.8	0.10%
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%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	79.3	0.01%
i18	Industrial	4	18.1	0.00%	18.1	0.00%	2,932.7	0.22%
i20	Industrial	0	0.0	0.00%	0.0	0.00%	102.3	0.01%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	3,783.6	0.29%
i22	Industrial	0	0.0	0.00%	0.0	0.00%	200.0	0.02%
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%	38.4	0.00%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	30	74.0	0.01%	74.0	0.01%	1,367.9	0.10%
d74	Training	219	7.5	0.00%	7.5	0.00%	101.9	0.01%
d104	Training	39	0.1	0.00%	0.1	0.00%	795.0	0.06%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d154	Training	191	159.0	0.01%	120.5	0.01%	253.4	0.02%
e482	Training	0	0.0	0.00%	0.0	0.00%	25.5	0.00%
d131	Service	200	236.2	0.02%	236.2	0.02%	911.9	0.07%
d134	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	6	0.1	0.00%	0.1	0.00%	84.9	0.01%
y07	Service	14	1.1	0.00%	1.1	0.00%	84.9	0.01%
z02	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
z17	Service	53	1,951.6	0.15%	1,951.6	0.15%	856.6	0.06%
z99	Service	23	0.1	0.00%	0.1	0.00%	8.5	0.00%
d84	UoE Seedcorn	5	959.8	0.07%	959.8	0.07%	84.9	0.01%
DirectorsTime Total		3,715	85,210.1	6.47%	85,174.5	6.46%	64,985.3	4.93%
y14	Training	28	7.3	0.00%	7.3	0.00%	594.5	0.05%
y21	Service	148	96.3	0.01%	96.3	0.01%	424.7	0.03%
z19	Service	418	890.8	0.07%	894.1	0.07%	1,698.6	0.13%
CSE Total		594	994.5	0.08%	997.7	0.08%	2,717.8	0.21%
Total		75,613	1,111,144.5	84.32%	1,137,252.7	86.30%	1,275,810.0	96.82%

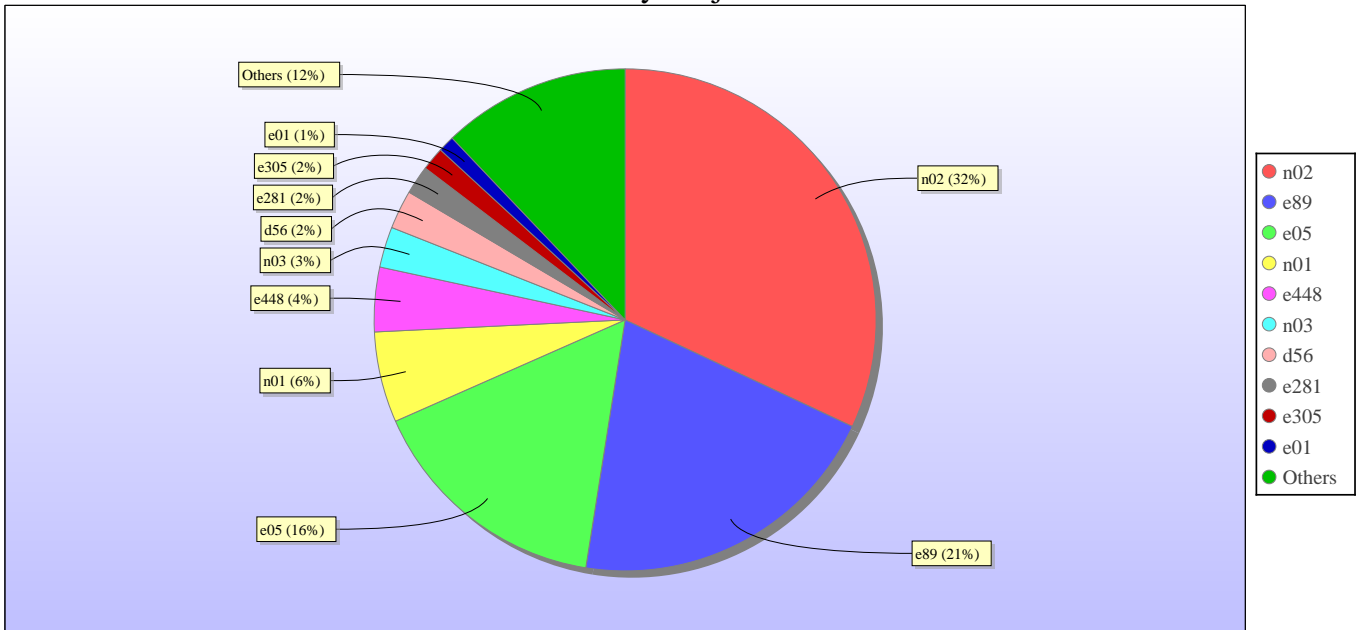
Use by Project



### Uncharged Use by Project



### Jobs by Project

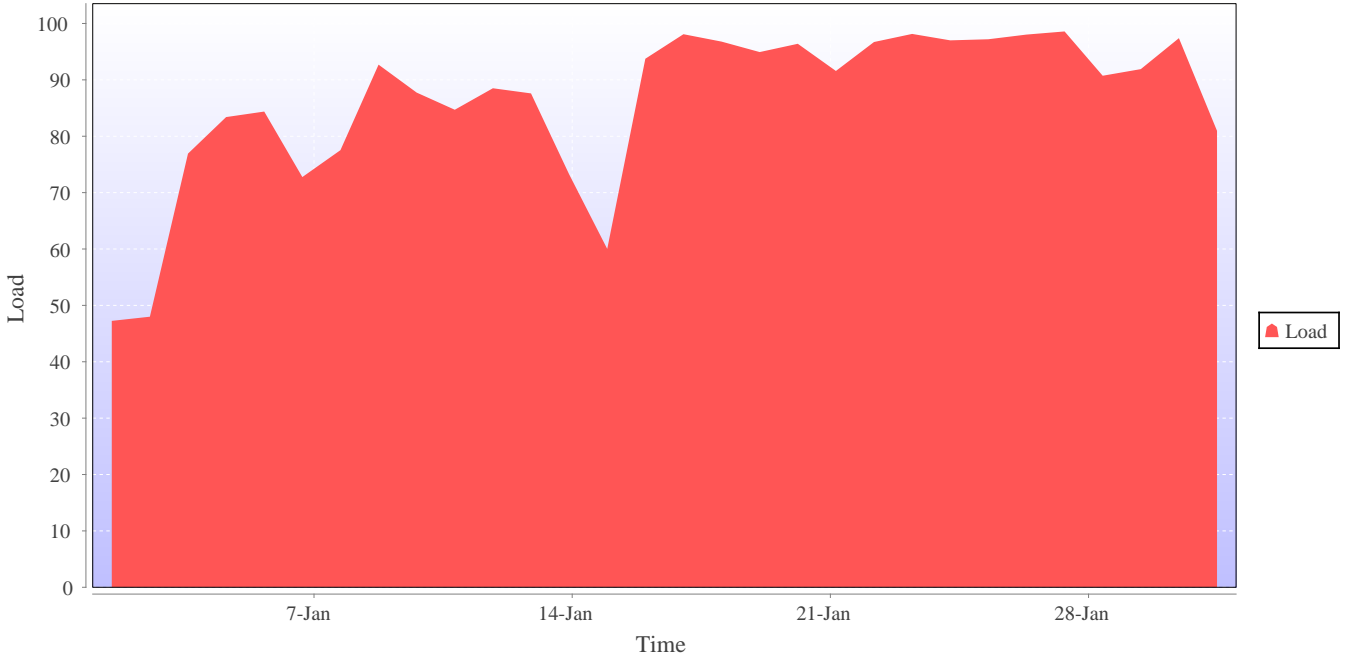


### kAUs (by Size)

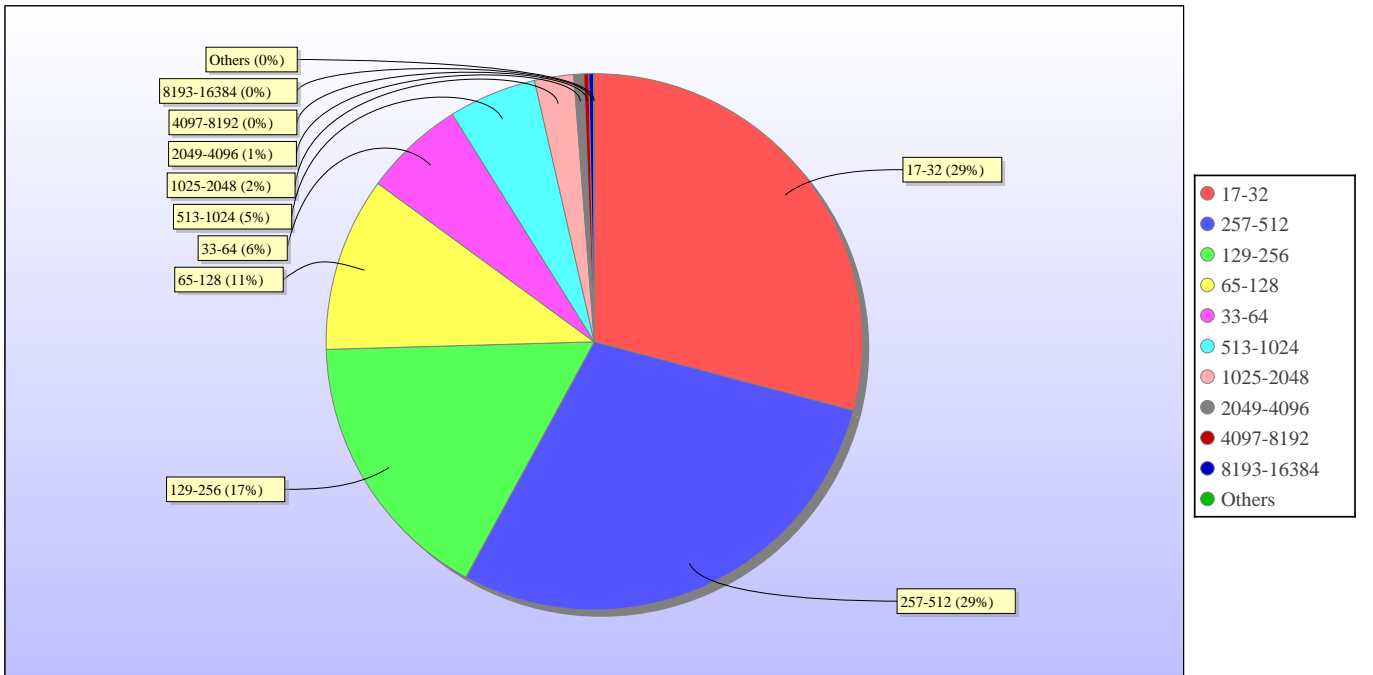
Size	kAUs	Number of Jobs
17-32	7,956.385	22,018
33-64	11,811.47	4,583
65-128	58,561.301	7,944
129-256	215,754.708	12,552
257-512	224,462.205	21,793
513-1024	188,602.403	4,005
1025-2048	138,993.34	1,781
2049-4096	75,747.219	453
4097-8192	100,318.169	231
8193-16384	82,452.326	217
16385-32768	258.904	15

Size	kAUs	Number of Jobs
32769-65536	369.776	11

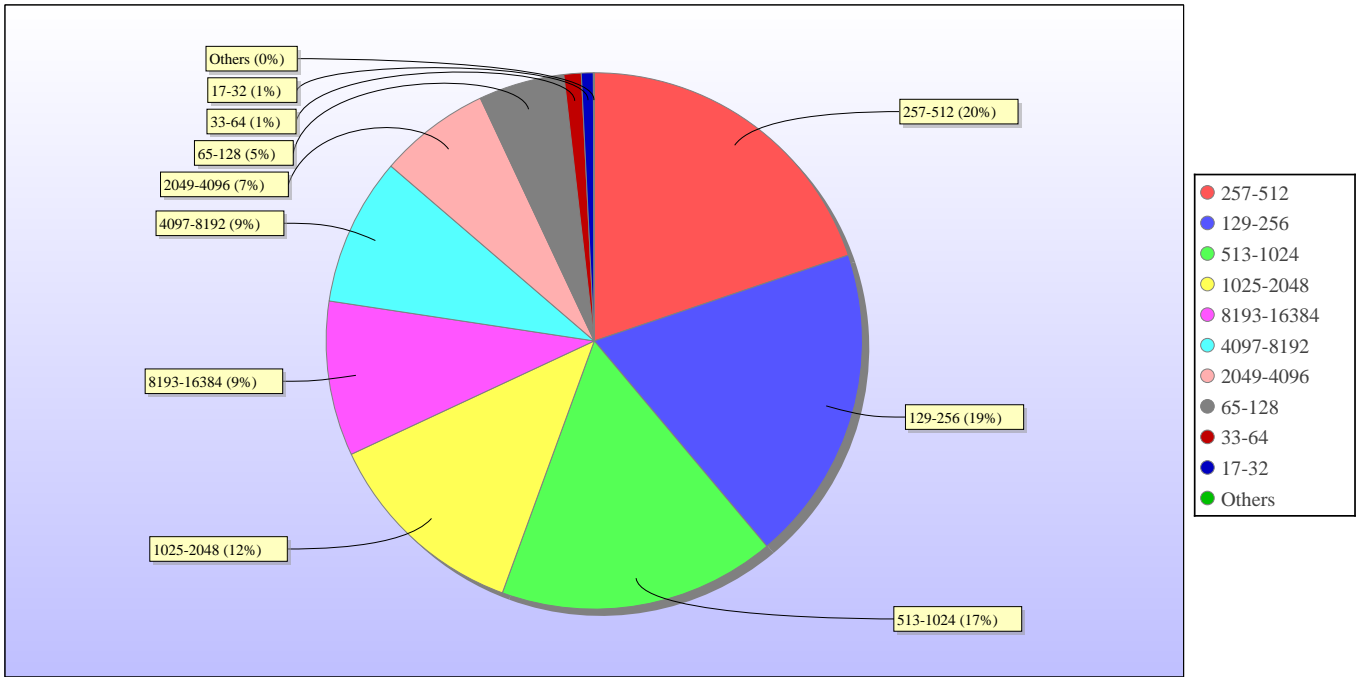
### Load plots



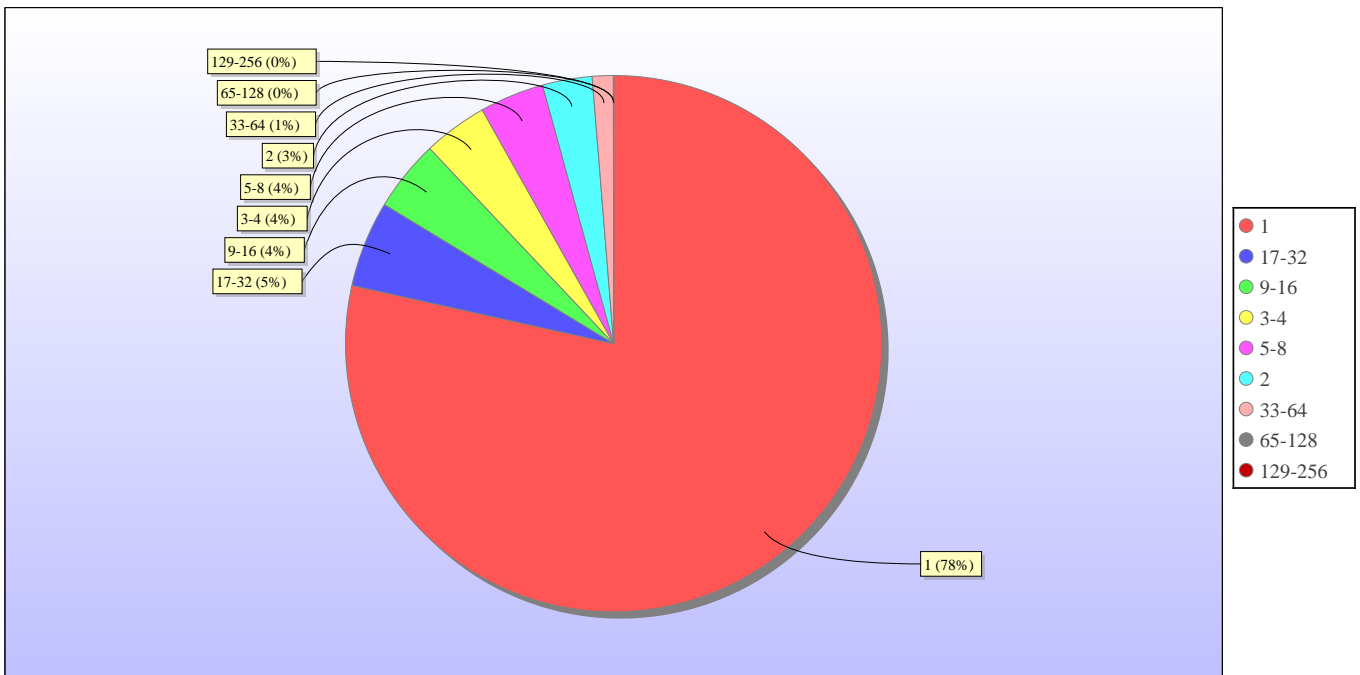
Percentage load on machine



Jobs by Size

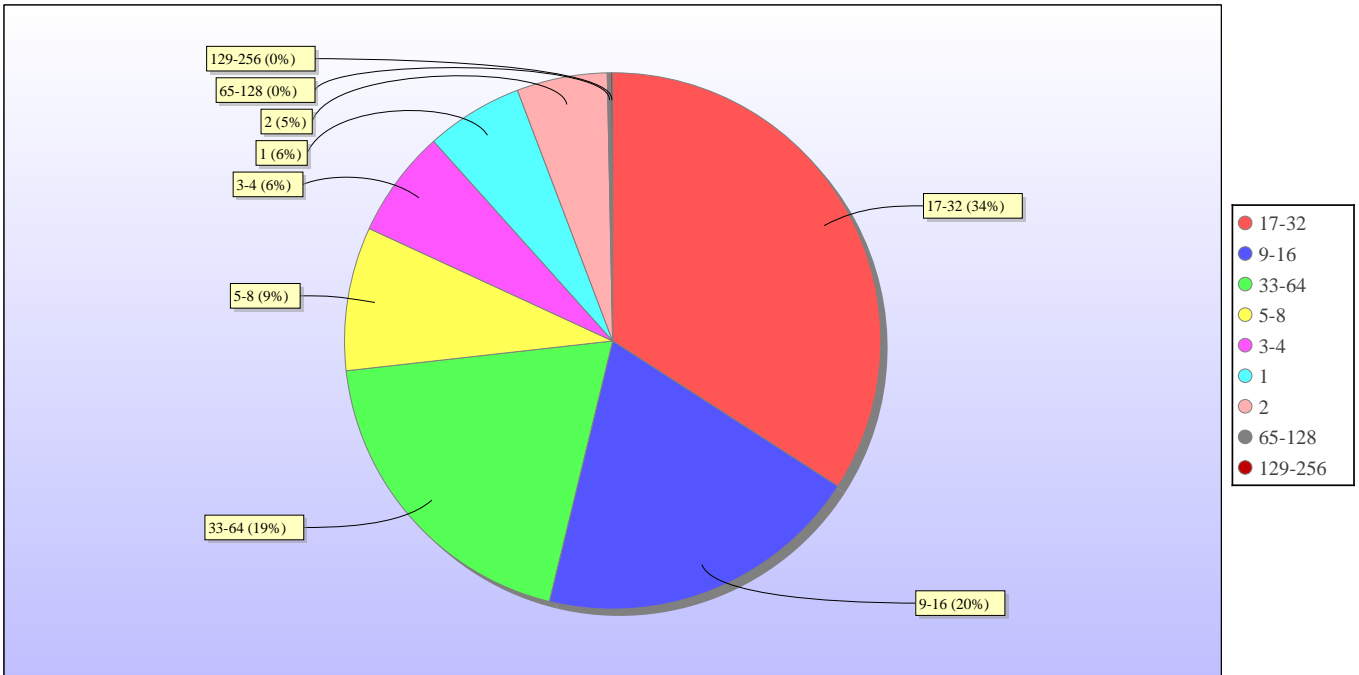


kAUs used by Size

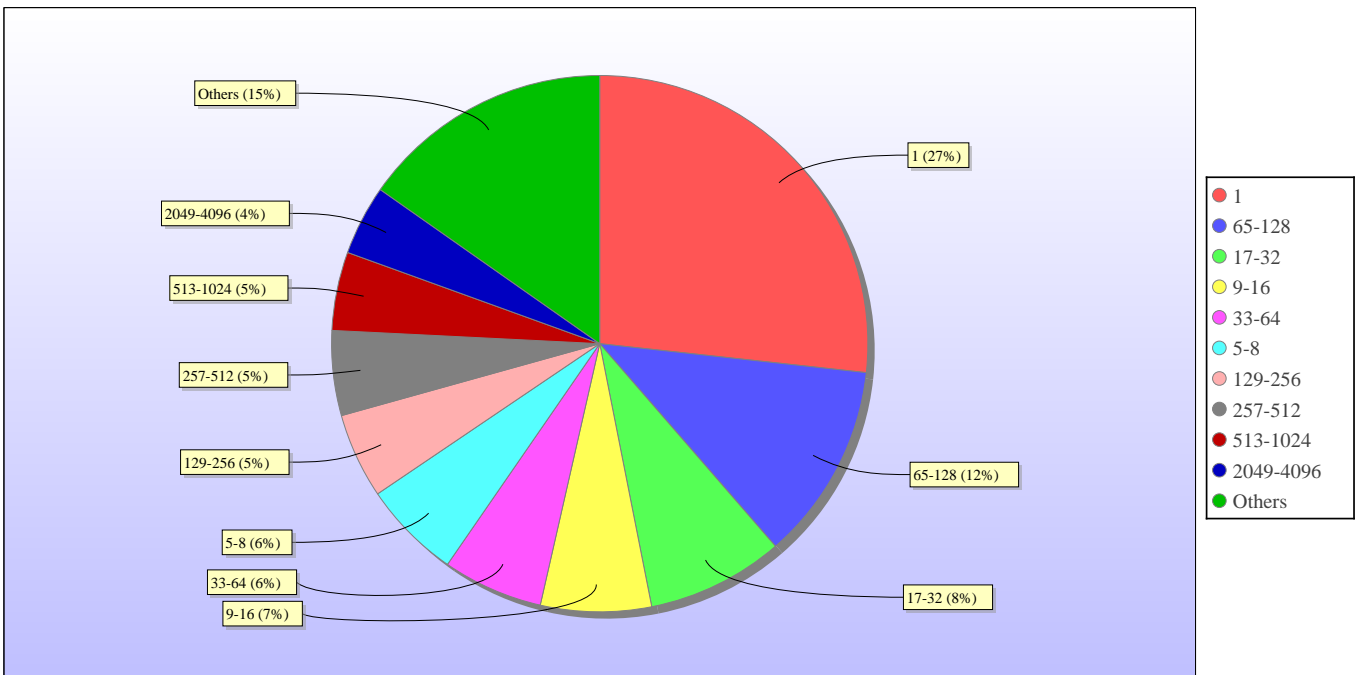


Jobs grouped by wall-clock-hours

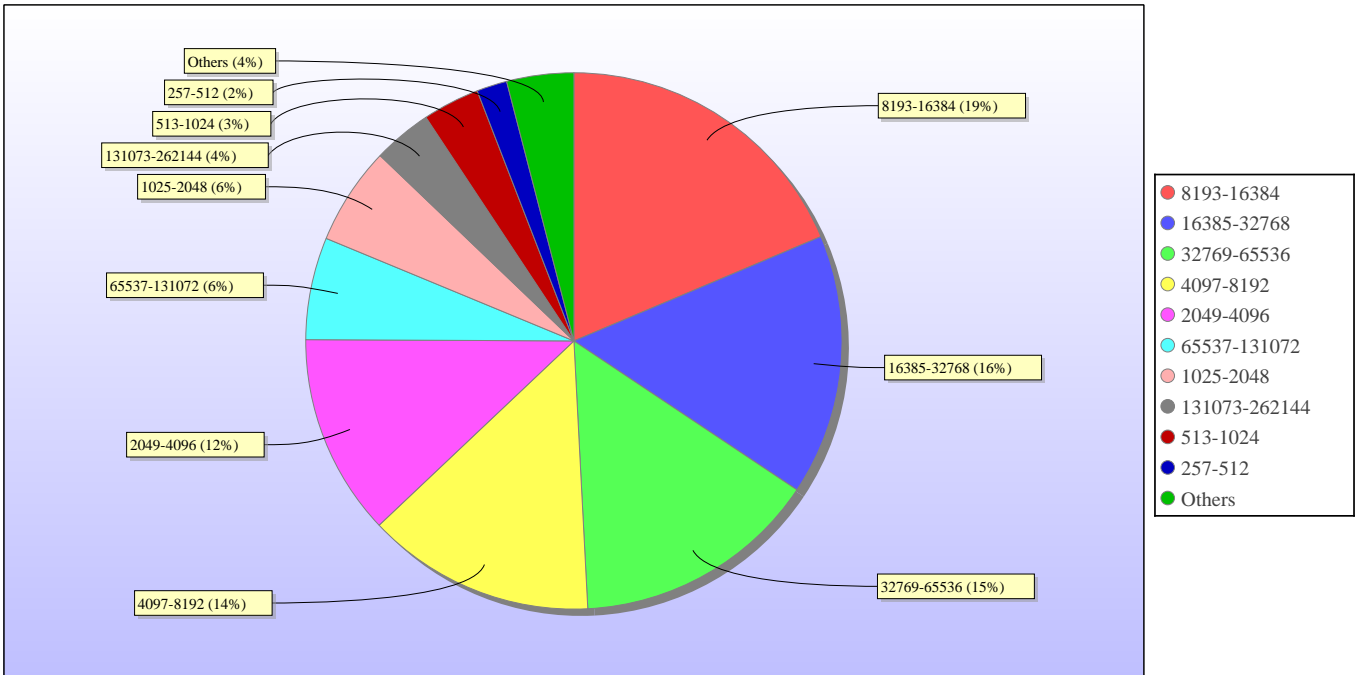




kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

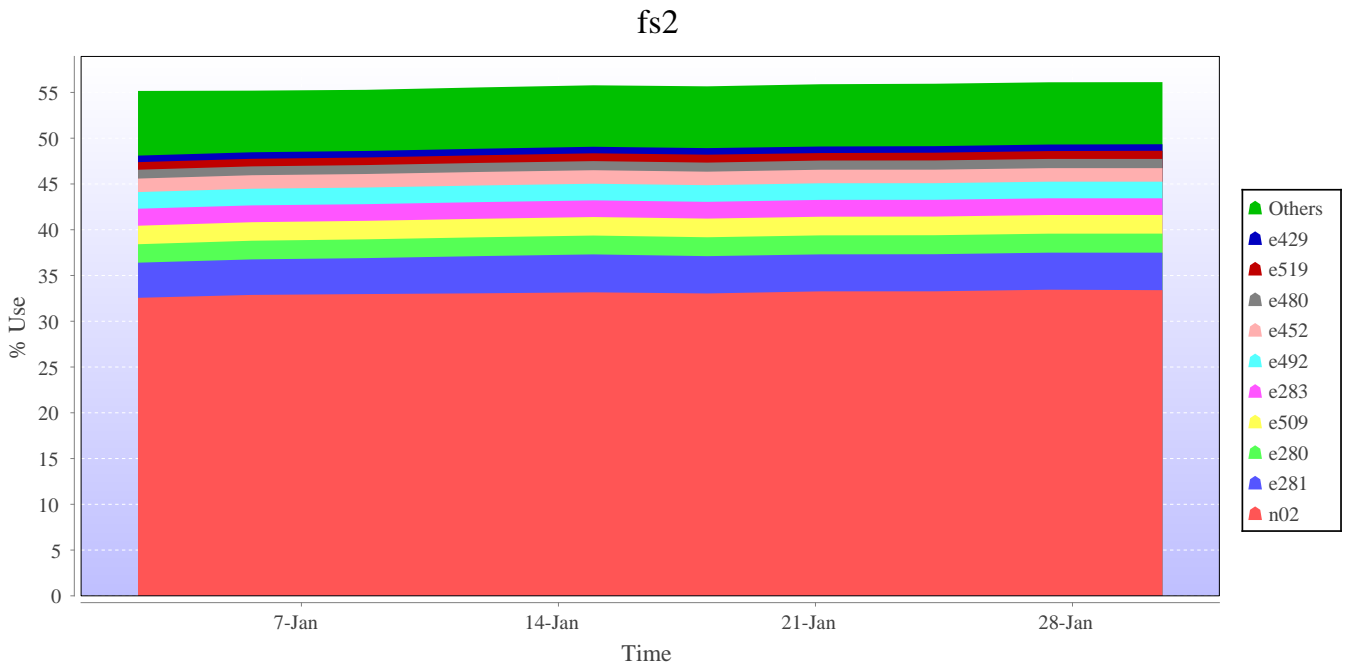


kAUs used grouped by core-hours

## Disk usage

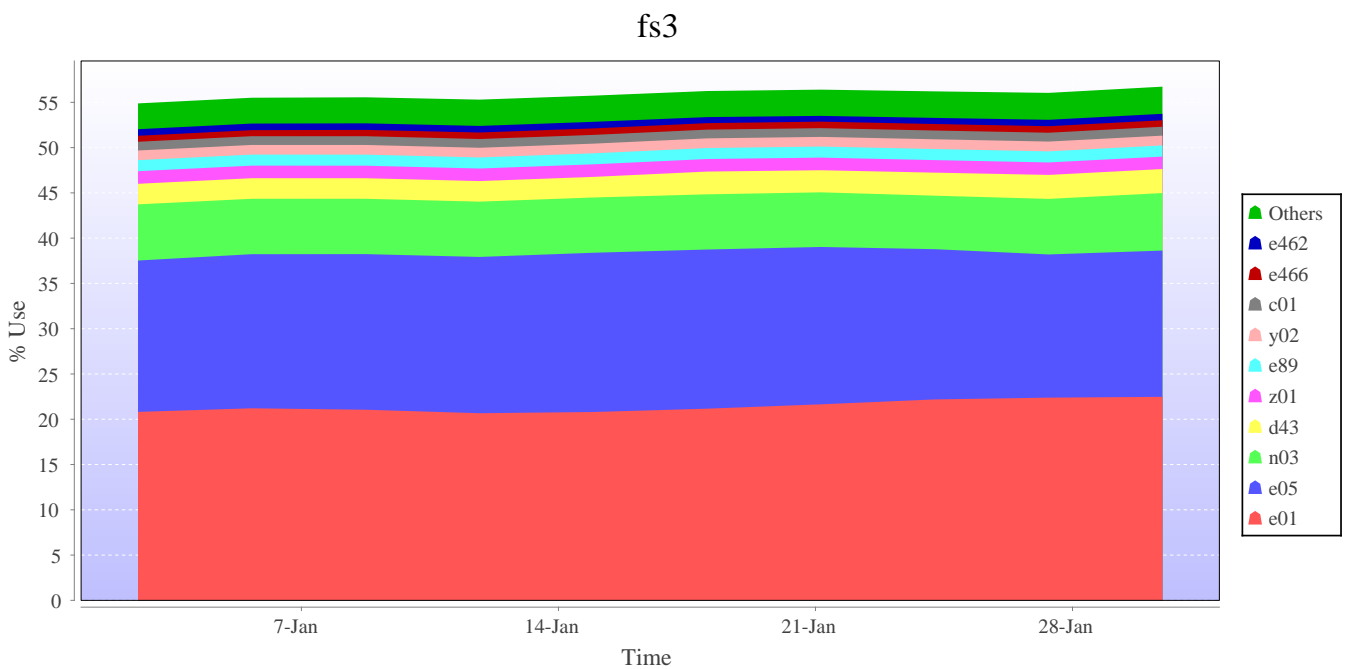
### Disk usage for work ( fs2 )

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.



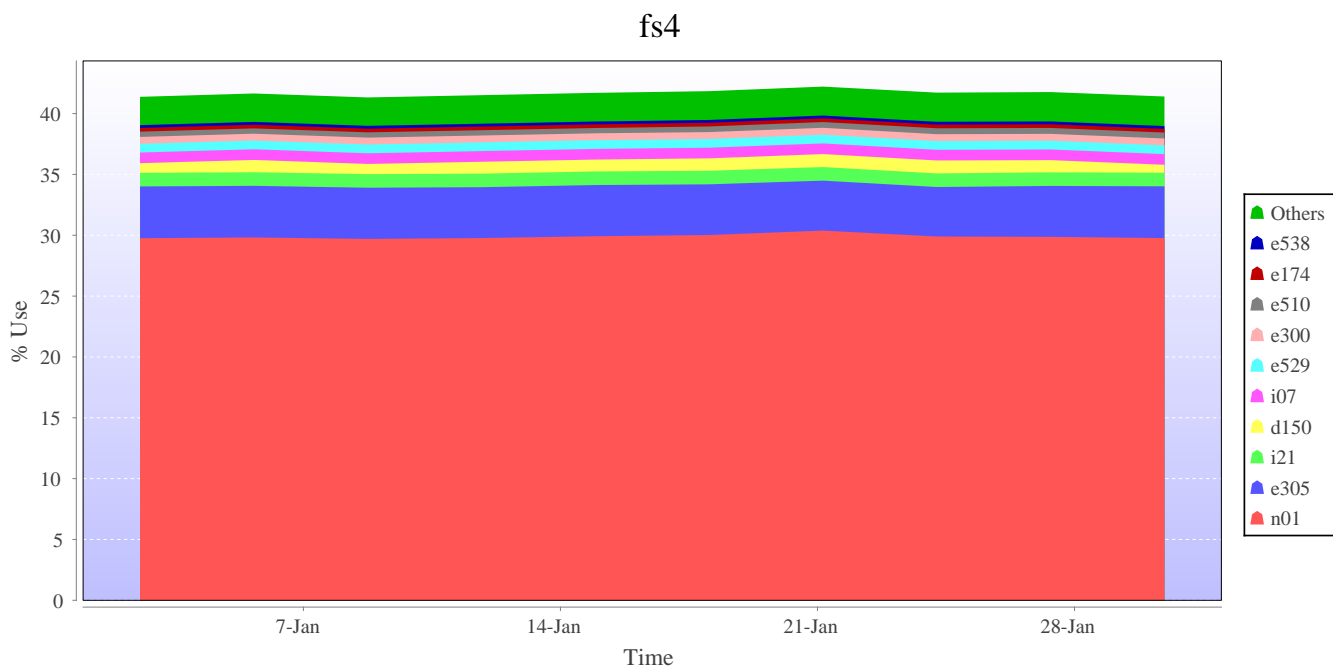
### Disk usage for work ( fs3 )

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.



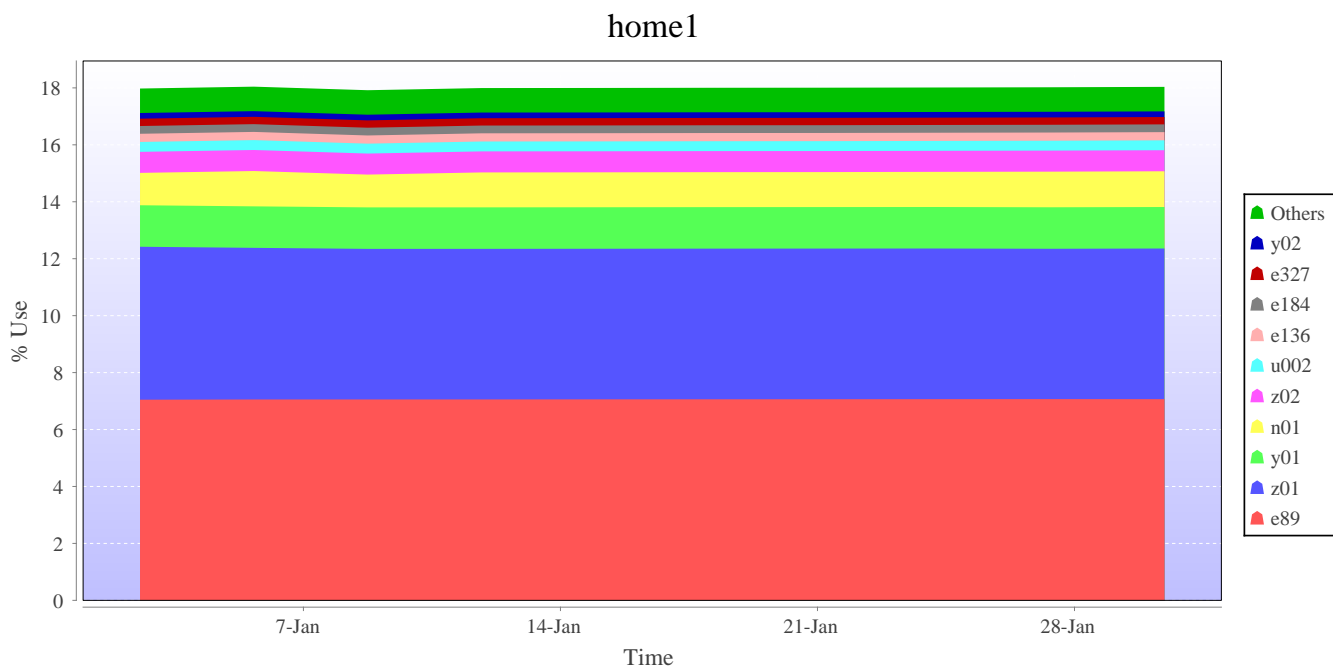
## Disk usage for work ( fs4 )

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.



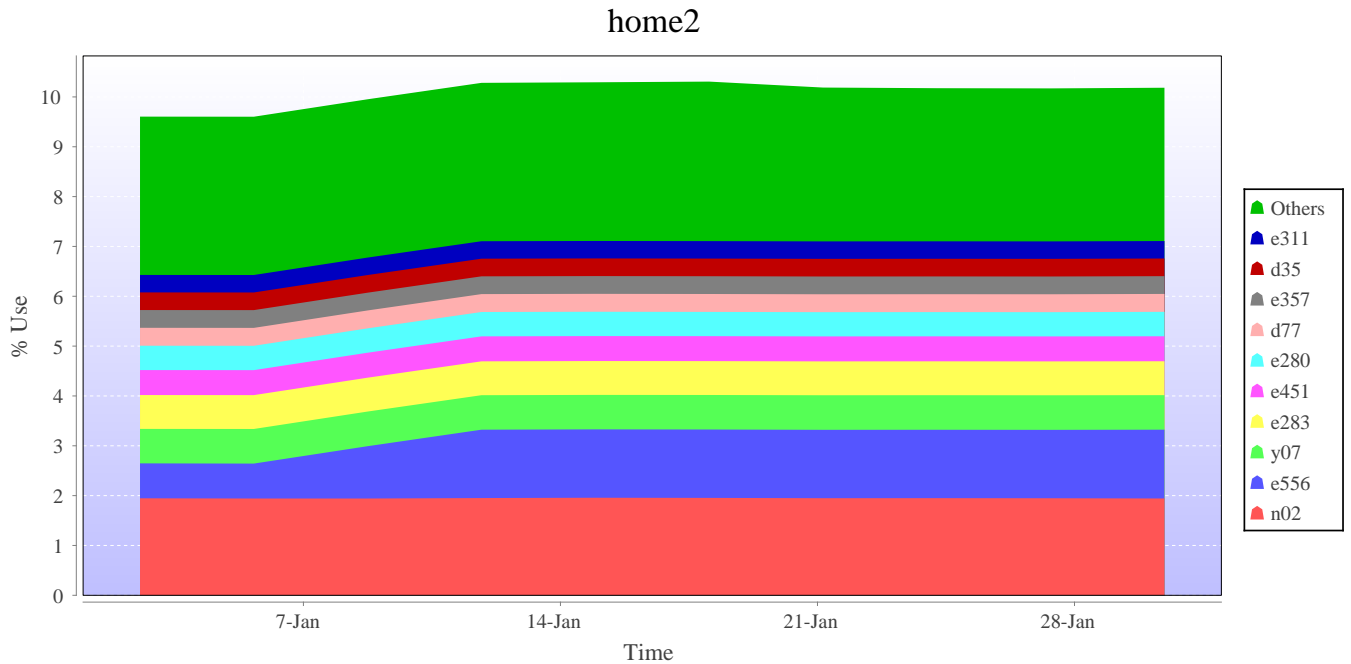
## Disk usage for home ( home1 )

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.



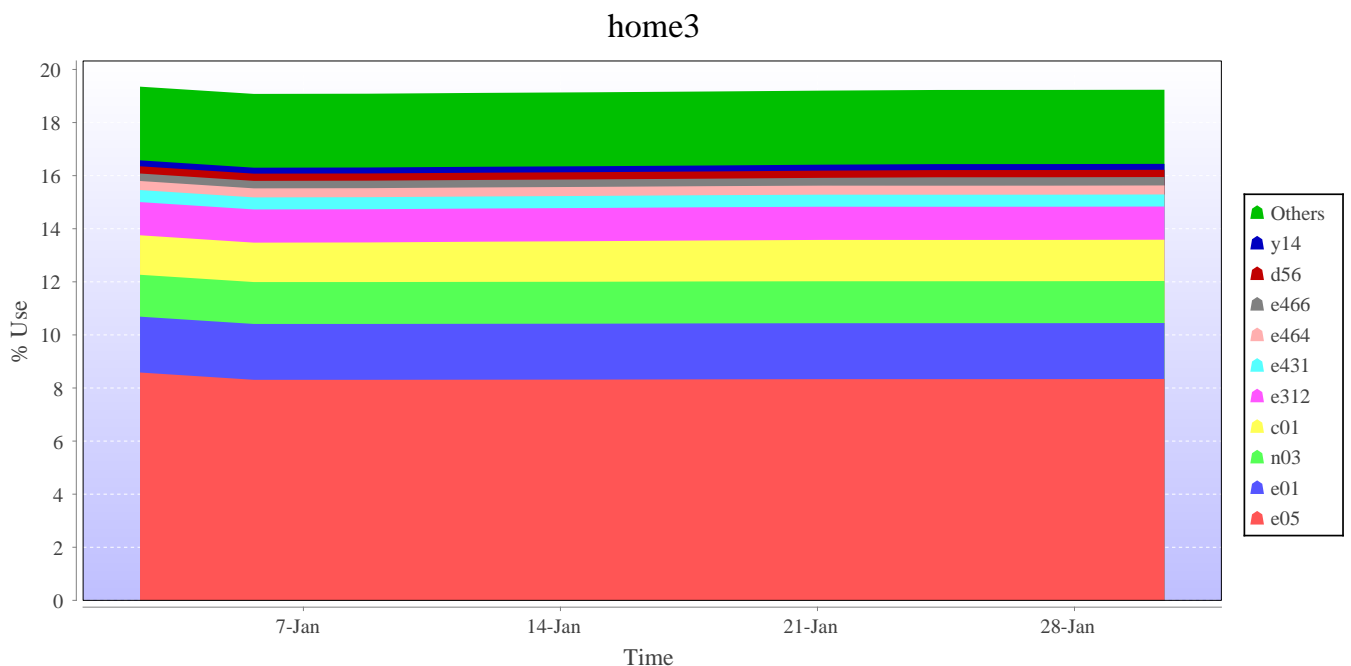
## Disk usage for home ( home2 )

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.

