

# Monthly Reporting

## Report from 01 May 2017 to 31 May 2017

### 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.

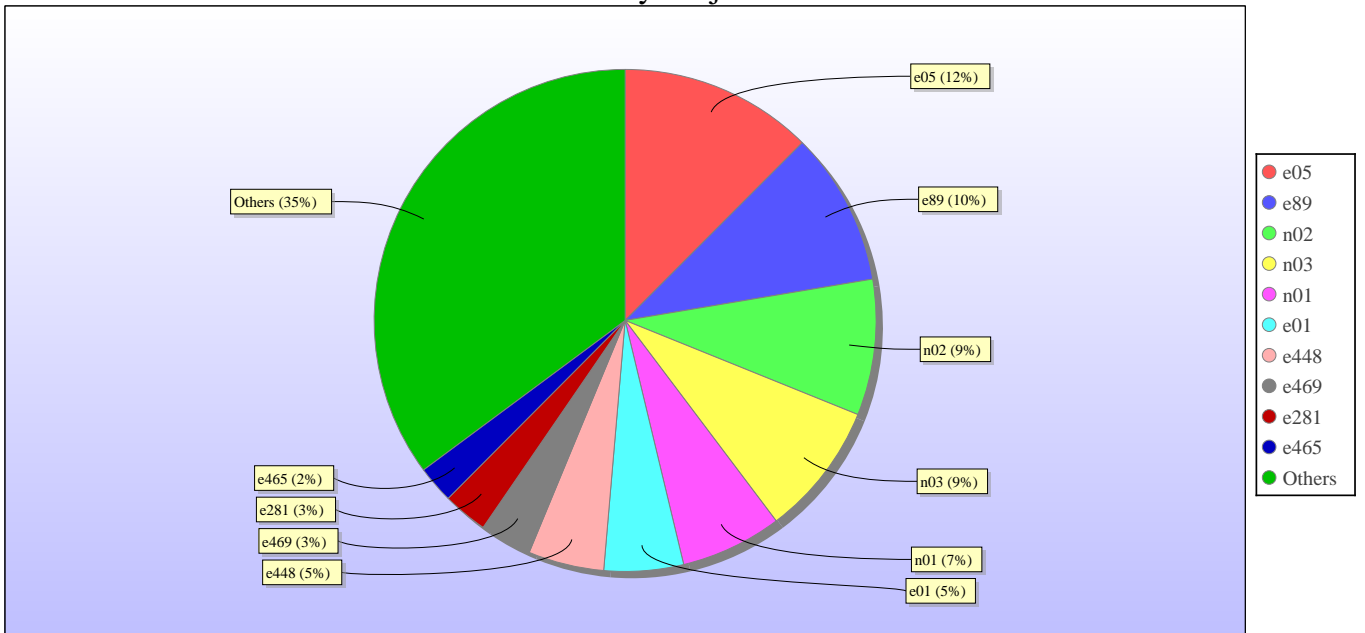
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	1,257	49,479.7	3.75%	60,028.7	4.56%	77,598.2	5.89%
e05	Consortia	9,082	146,390.3	11.11%	146,447.3	11.11%	219,397.3	16.65%
e89	Consortia	7,927	116,089.7	8.81%	116,095.6	8.81%	118,522.1	8.99%
e280	Consortia	192	15,037.8	1.14%	15,037.8	1.14%	38,217.9	2.90%
e281	Consortia	1,064	33,918.6	2.57%	33,918.9	2.57%	21,667.1	1.64%
e283	Consortia	1,432	25,003.9	1.90%	25,003.9	1.90%	16,968.2	1.29%
e305	Consortia	884	27,071.8	2.05%	27,096.5	2.06%	22,162.6	1.68%
e529	Consortia	137	10,863.0	0.82%	10,863.2	0.82%	13,651.0	1.04%
e410	Leadership Awards	14	6,681.9	0.51%	6,681.9	0.51%	0.0	0.00%
e426	Leadership Awards	0	0.0	0.00%	0.0	0.00%	11,991.7	0.91%
e453	Leadership Awards	93	23,239.9	1.76%	23,241.7	1.76%	5,727.0	0.43%
e460	Leadership Awards	68	5,111.7	0.39%	5,111.7	0.39%	3,377.8	0.26%
e461	Leadership Awards	366	12,778.2	0.97%	17,637.8	1.34%	8,565.5	0.65%
e462	Leadership Awards	129	4,162.9	0.32%	4,935.6	0.37%	7,320.6	0.56%
e464	Leadership Awards	989	7,739.1	0.59%	7,739.1	0.59%	9,946.4	0.75%
e465	Leadership Awards	86	28,046.9	2.13%	28,046.9	2.13%	13,880.8	1.05%
e466	Leadership Awards	75	3,761.4	0.29%	3,761.4	0.29%	14,218.7	1.08%
e467	Leadership Awards	56	113.2	0.01%	113.2	0.01%	9,517.8	0.72%
e468	Leadership Awards	0	0.0	0.00%	0.0	0.00%	4,206.9	0.32%
e469	Leadership Awards	243	38,478.4	2.92%	39,068.0	2.96%	11,599.9	0.88%
e507	Leadership Awards	205	4,694.8	0.36%	4,694.8	0.36%	10,278.6	0.78%
e509	Leadership Awards	22	14,692.0	1.11%	14,998.4	1.14%	18,803.3	1.43%
e510	Leadership Awards	22	2,176.8	0.17%	2,176.8	0.17%	8,422.0	0.64%
e526	Leadership Awards	44	3,984.6	0.30%	3,984.6	0.30%	4,282.8	0.32%
n07	Leadership Awards	5	817.2	0.06%	817.2	0.06%	5,097.2	0.39%
n08	Leadership Awards	19	0.1	0.00%	0.1	0.00%	11,355.0	0.86%
c01	Class1a	83	119.5	0.01%	119.6	0.01%	4,176.0	0.32%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e229	Class1a	0	0.0	0.00%	0.0	0.00%	463.6	0.04%
e272	Class1a	275	1,709.4	0.13%	1,709.4	0.13%	3,388.0	0.26%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	201.3	0.02%
e300	Class1a	36	260.8	0.02%	269.6	0.02%	581.9	0.04%
e304	Class1a	202	5,227.0	0.40%	5,227.0	0.40%	5,256.8	0.40%
e341	Class1a	4	0.3	0.00%	0.3	0.00%	6,181.3	0.47%
e358	Class1a	0	0.0	0.00%	0.0	0.00%	748.8	0.06%
e365	Class1a	52	2,272.7	0.17%	2,272.7	0.17%	549.5	0.04%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	2,864.8	0.22%
e378	Class1a	0	0.0	0.00%	0.0	0.00%	4,933.3	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e429	Class1a	35	5,226.0	0.40%	5,226.0	0.40%	5,995.9	0.45%
e431	Class1a	191	1,998.7	0.15%	1,998.7	0.15%	2,905.0	0.22%
e432	Class1a	94	4,489.9	0.34%	4,489.9	0.34%	4,969.0	0.38%
e446	Class1a	515	27,683.8	2.10%	27,683.8	2.10%	17,289.2	1.31%
e448	Class1a	4,129	57,287.8	4.35%	57,287.8	4.35%	42,064.1	3.19%
e451	Class1a	96	19,191.3	1.46%	19,191.3	1.46%	4,931.5	0.37%
e452	Class1a	11	771.0	0.06%	771.0	0.06%	553.4	0.04%
e475	Class1a	312	1,233.0	0.09%	1,233.0	0.09%	3,426.2	0.26%
e477	Class1a	195	7,279.1	0.55%	7,279.1	0.55%	4,282.8	0.32%
e480	Class1a	80	6,628.5	0.50%	6,628.5	0.50%	3,951.7	0.30%
e499	Class1a	43	984.6	0.07%	984.6	0.07%	10,921.5	0.83%
e513	Class1a	0	0.0	0.00%	0.0	0.00%	134.8	0.01%
e514	Class1a	0	0.0	0.00%	0.0	0.00%	84.3	0.01%
e515	Class1a	59	0.4	0.00%	0.4	0.00%	856.6	0.06%
e516	Class1a	92	7,692.9	0.58%	7,692.9	0.58%	7,098.6	0.54%
e518	Class1a	90	43.0	0.00%	43.0	0.00%	508.2	0.04%
e519	Class1a	31	261.0	0.02%	261.0	0.02%	8,469.9	0.64%
e520	Class1a	10	1,119.3	0.08%	1,119.3	0.08%	856.6	0.06%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	3,426.2	0.26%
e527	Class1a	54	475.9	0.04%	475.9	0.04%	359.8	0.03%
e530	Class1a	0	0.0	0.00%	0.0	0.00%	508.2	0.04%
e537	Class1a	6,238	18,897.7	1.43%	18,898.0	1.43%	3,842.0	0.29%
e348	Direct Access: ARCHER RAP	86	2,268.7	0.17%	2,268.7	0.17%	1,698.6	0.13%
e483	Direct Access: ARCHER RAP	204	1,092.1	0.08%	1,092.1	0.08%	2,423.9	0.18%
e491	Direct Access: ARCHER RAP	112	327.4	0.02%	327.4	0.02%	1,017.5	0.08%
e492	Direct Access: ARCHER RAP	684	7,468.6	0.57%	7,472.0	0.57%	4,129.5	0.31%
e498	Direct Access: ARCHER RAP	43	3,571.0	0.27%	3,571.0	0.27%	1,222.6	0.09%
e500	Direct Access: ARCHER RAP	102	2,155.1	0.16%	2,155.1	0.16%	3,296.7	0.25%
e501	Direct Access: ARCHER RAP	50	8,629.1	0.65%	8,629.1	0.65%	3,833.3	0.29%
e504	Direct Access: ARCHER RAP	22	317.2	0.02%	317.2	0.02%	1,005.8	0.08%
e505	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	479.3	0.04%
e511	Direct Access: ARCHER RAP	12	1.6	0.00%	1.6	0.00%	2,547.9	0.19%
e486	Instant Access	0	0.0	0.00%	0.0	0.00%	101.9	0.01%
e512	Instant Access	104	66.4	0.01%	66.4	0.01%	204.4	0.02%
e522	Instant Access	3	0.0	0.00%	0.0	0.00%	205.6	0.02%
e525	Instant Access	77	611.9	0.05%	611.9	0.05%	203.0	0.02%
e528	Instant Access	0	0.0	0.00%	0.0	0.00%	205.6	0.02%
e531	Instant Access	0	0.0	0.00%	0.0	0.00%	202.2	0.02%
e532	Instant Access	0	0.0	0.00%	0.0	0.00%	195.1	0.01%
e533	Instant Access	95	102.8	0.01%	102.8	0.01%	203.3	0.02%
e534	Instant Access	0	0.0	0.00%	0.0	0.00%	203.3	0.02%
e535	Instant Access	0	0.0	0.00%	0.0	0.00%	203.3	0.02%
e536	Instant Access	47	467.5	0.04%	467.5	0.04%	202.1	0.02%

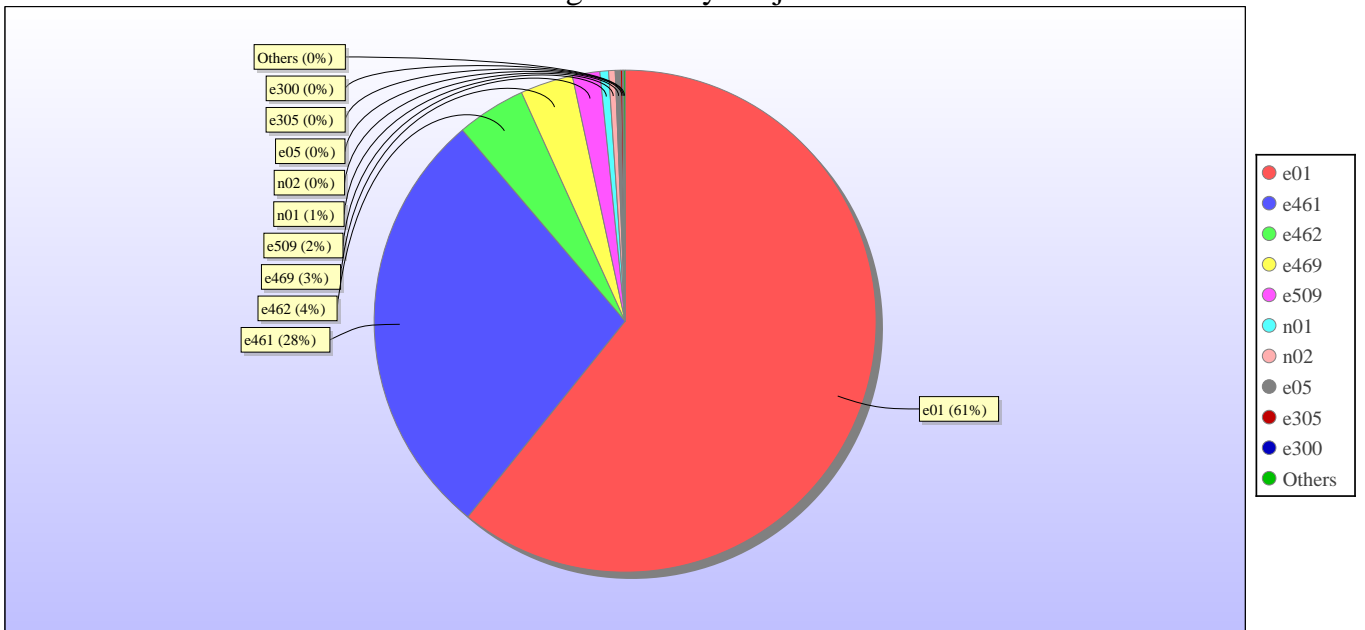
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e524	Research	8	18,525.7	1.41%	18,525.7	1.41%	13,066.3	0.99%
i07	Industrial	0	0.0	0.00%	0.0	0.00%	1,118.6	0.08%
e476	Training	2	23.9	0.00%	23.9	0.00%	0.0	0.00%
e495	Training	192	225.4	0.02%	225.4	0.02%	2,286.9	0.17%
e508	Training	131	1,419.0	0.11%	1,419.0	0.11%	2,673.3	0.20%
e521	Training	298	4,616.6	0.35%	4,616.6	0.35%	2,301.2	0.17%
e538	Training	257	1,947.3	0.15%	1,947.3	0.15%	1,524.6	0.12%
<b>EPSRC Total</b>		<b>39,867</b>	<b>805,024.9</b>	<b>61.09%</b>	<b>822,204.7</b>	<b>62.39%</b>	<b>898,935.2</b>	<b>68.22%</b>
n01	Consortia	5,355	76,827.8	5.83%	76,645.9	5.82%	33,972.6	2.58%
n02	Consortia	15,414	105,956.3	8.04%	102,750.7	7.80%	127,397.3	9.67%
n03	Consortia	2,765	101,045.3	7.67%	101,045.8	7.67%	50,958.9	3.87%
<b>NERC Total</b>		<b>23,534</b>	<b>283,829.4</b>	<b>21.54%</b>	<b>280,442.4</b>	<b>21.28%</b>	<b>212,328.8</b>	<b>16.11%</b>
b16	Class1a	0	0.0	0.00%	0.0	0.00%	9.5	0.00%
<b>BBSRC Total</b>		<b>0</b>	<b>0.0</b>	<b>0.00%</b>	<b>0.0</b>	<b>0.00%</b>	<b>9.5</b>	<b>0.00%</b>
pr1u1352	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	187.5	0.01%
pr1u1353	DECI: EXEC	6	4,763.2	0.36%	4,763.2	0.36%	4,755.3	0.36%
pr1u1354	DECI: EXEC	11	2,416.7	0.18%	2,416.7	0.18%	2,237.8	0.17%
pr1u1355	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,958.1	0.15%
pr1u1356	DECI: EXEC	182	934.3	0.07%	934.3	0.07%	820.2	0.06%
pr1u1357	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,435.4	0.11%
pr1u1358	DECI: EXEC	98	1,975.3	0.15%	1,975.3	0.15%	4,141.8	0.31%
pr1u1359	DECI: EXEC	53	6,802.1	0.52%	6,802.1	0.52%	1,839.0	0.14%
pr1u1360	DECI: EXEC	52	1,760.5	0.13%	1,760.5	0.13%	3,491.4	0.26%
pr1u1362	DECI: EXEC	251	1,157.5	0.09%	1,160.2	0.09%	824.5	0.06%
pr1u1363	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,691.4	0.20%
pr1u1451	DECI: EXEC	7	0.3	0.00%	0.3	0.00%	5,653.5	0.43%
pr1u1452	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	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	0	0.0	0.00%	0.0	0.00%	6,309.3	0.48%
pr1u1455	DECI: EXEC	1	0.0	0.00%	0.0	0.00%	1,607.7	0.12%
pr1u1456	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	5,333.6	0.40%
pr1u1311	DECI: HOME	11	1.5	0.00%	1.5	0.00%	678.3	0.05%
pr1u1401	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1402	DECI: HOME	2	0.5	0.00%	0.5	0.00%	428.7	0.03%
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>674</b>	<b>19,811.7</b>	<b>1.50%</b>	<b>19,814.4</b>	<b>1.50%</b>	<b>64,181.4</b>	<b>4.87%</b>
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	26.5	0.00%
ecse0706	eCSE	72	1,495.9	0.11%	1,495.9	0.11%	139.6	0.01%
ecse0709	eCSE	0	0.0	0.00%	0.0	0.00%	11.6	0.00%
ecse0715	eCSE	0	0.0	0.00%	0.0	0.00%	42.0	0.00%
ecse0716	eCSE	0	0.0	0.00%	0.0	0.00%	61.8	0.00%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	46.4	0.00%
ecse0804	eCSE	35	21.8	0.00%	21.8	0.00%	38.1	0.00%
ecse0807	eCSE	95	171.5	0.01%	171.5	0.01%	39.0	0.00%
ecse0810	eCSE	0	0.0	0.00%	0.0	0.00%	34.2	0.00%
ecse0814	eCSE	73	0.1	0.00%	0.1	0.00%	45.5	0.00%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
ecse0904	eCSE	35	0.4	0.00%	0.4	0.00%	42.6	0.00%
ecse0910	eCSE	28	5.5	0.00%	5.5	0.00%	35.2	0.00%
<b>eCSE Total</b>		<b>338</b>	<b>1,695.3</b>	<b>0.13%</b>	<b>1,695.3</b>	<b>0.13%</b>	<b>603.5</b>	<b>0.05%</b>
d43	ECDF	43	435.3	0.03%	435.3	0.03%	3,397.3	0.26%
d25	Research	38	311.5	0.02%	311.5	0.02%	849.3	0.06%
d35	Research	374	184.7	0.01%	184.7	0.01%	424.7	0.03%
d56	Research	210	4,828.7	0.37%	4,828.7	0.37%	5,995.9	0.45%
d60	Research	0	0.0	0.00%	0.0	0.00%	204.0	0.02%

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d67	Research	24	1,028.5	0.08%	1,028.5	0.08%	424.7	0.03%
d71	Research	15	191.1	0.01%	191.1	0.01%	578.0	0.04%
d72	Research	0	0.0	0.00%	0.0	0.00%	169.9	0.01%
d87	Research	8	212.7	0.02%	212.7	0.02%	1,129.4	0.09%
d88	Research	0	0.0	0.00%	0.0	0.00%	21.2	0.00%
d96	Research	0	0.0	0.00%	0.0	0.00%	4,246.6	0.32%
d100	Research	0	0.0	0.00%	0.0	0.00%	363.8	0.03%
d101	Research	266	857.6	0.07%	858.9	0.07%	424.7	0.03%
d107	Research	99	0.8	0.00%	0.8	0.00%	424.7	0.03%
d114	Research	249	20,728.2	1.57%	20,730.3	1.57%	8,341.5	0.63%
d120	Research	0	0.0	0.00%	0.0	0.00%	312.5	0.02%
d121	Research	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
d137	Research	97	7,644.2	0.58%	7,644.6	0.58%	2,547.9	0.19%
d141	Research	0	0.0	0.00%	0.0	0.00%	254.8	0.02%
d142	Research	48	2,398.3	0.18%	2,398.3	0.18%	4,641.3	0.35%
d143	Research	58	2,349.0	0.18%	2,349.0	0.18%	4,211.0	0.32%
d144	Research	4	116.7	0.01%	116.7	0.01%	2,527.7	0.19%
d145	Research	0	0.0	0.00%	0.0	0.00%	2,547.9	0.19%
d146	Research	12	51.9	0.00%	51.9	0.00%	527.2	0.04%
d149	Research	565	3,704.4	0.28%	3,704.4	0.28%	4,246.6	0.32%
d150	Research	18	0.1	0.00%	0.1	0.00%	2,541.0	0.19%
d132	Industrial	4	12.5	0.00%	12.5	0.00%	108.4	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	79.3	0.01%
x08	Industrial	116	398.3	0.03%	398.3	0.03%	1,358.9	0.10%
d74	Training	4	0.3	0.00%	0.3	0.00%	55.2	0.00%
d104	Training	782	148.8	0.01%	148.8	0.01%	171.3	0.01%
d122	Training	41	0.1	0.00%	0.1	0.00%	1,727.0	0.13%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
e482	Training	0	0.0	0.00%	0.0	0.00%	509.6	0.04%
d131	Service	217	161.5	0.01%	161.5	0.01%	851.6	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
w12	Service	8	10.2	0.00%	10.2	0.00%	505.5	0.04%
w13	Service	0	0.0	0.00%	0.0	0.00%	505.5	0.04%
w14	Service	3	71.7	0.01%	71.7	0.01%	505.5	0.04%
w15	Service	0	0.0	0.00%	0.0	0.00%	508.2	0.04%
y01	Service	0	0.0	0.00%	0.0	0.00%	8.5	0.00%
y02	Service	1	0.1	0.00%	0.1	0.00%	169.9	0.01%
y07	Service	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
z02	Service	3	0.0	0.00%	0.0	0.00%	424.7	0.03%
z17	Service	1	11.9	0.00%	11.9	0.00%	0.0	0.00%
z99	Service	36	0.2	0.00%	0.2	0.00%	8.5	0.00%
d84	UoE Seedcorn	4	685.2	0.05%	685.2	0.05%	424.7	0.03%
d147	UoE Seedcorn	216	835.3	0.06%	835.3	0.06%	193.8	0.01%
d148	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	203.3	0.02%
d83	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	5,176.6	0.39%
d108	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	865.2	0.07%
DirectorsTime Total		3,564	47,380.0	3.60%	47,383.7	3.60%	66,266.8	5.03%
y14	Training	1,757	46.3	0.00%	46.3	0.00%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	78.3	0.01%
z19	Service	345	2,246.4	0.17%	2,246.5	0.17%	5,520.5	0.42%
CSE Total		2,102	2,292.7	0.17%	2,292.8	0.17%	6,193.4	0.47%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	3,210.9	0.24%
i20	Industrial	143	167.3	0.01%	167.3	0.01%	534.5	0.04%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	225.5	0.02%
Industrial Total		143	167.3	0.01%	167.3	0.01%	3,970.8	0.30%
w03	Service	0	0.0	0.00%	0.0	0.00%	97.0	0.01%
Internal Total		0	0.0	0.00%	0.0	0.00%	97.0	0.01%
Total		70,222	1,160,201.3	88.04%	1,174,000.6	89.09%	1,252,586.3	95.05%

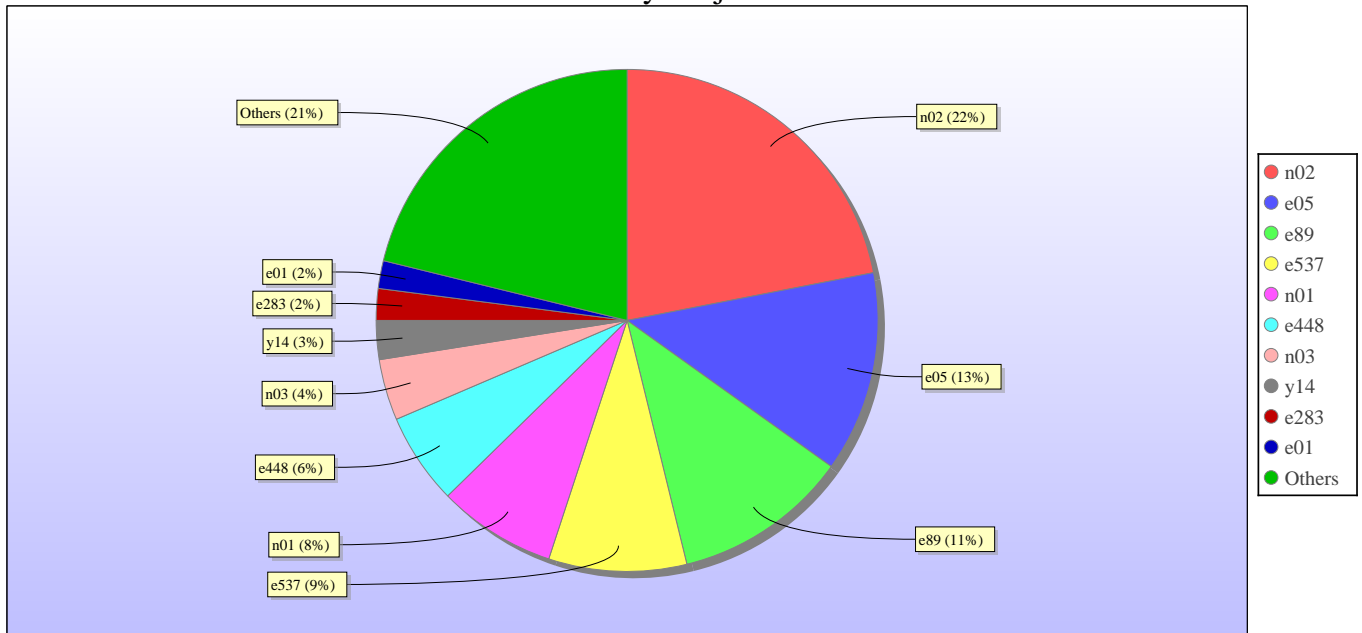
Use by Project



Uncharged Use by Project



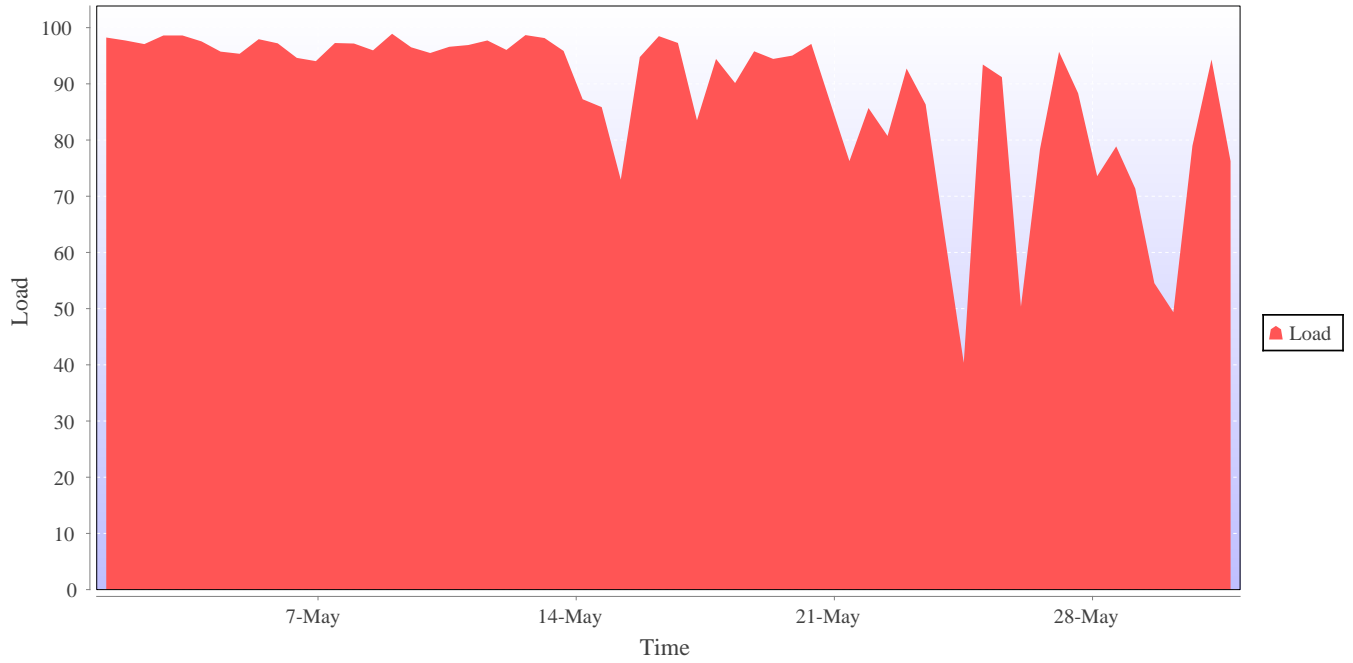
### Jobs by Project



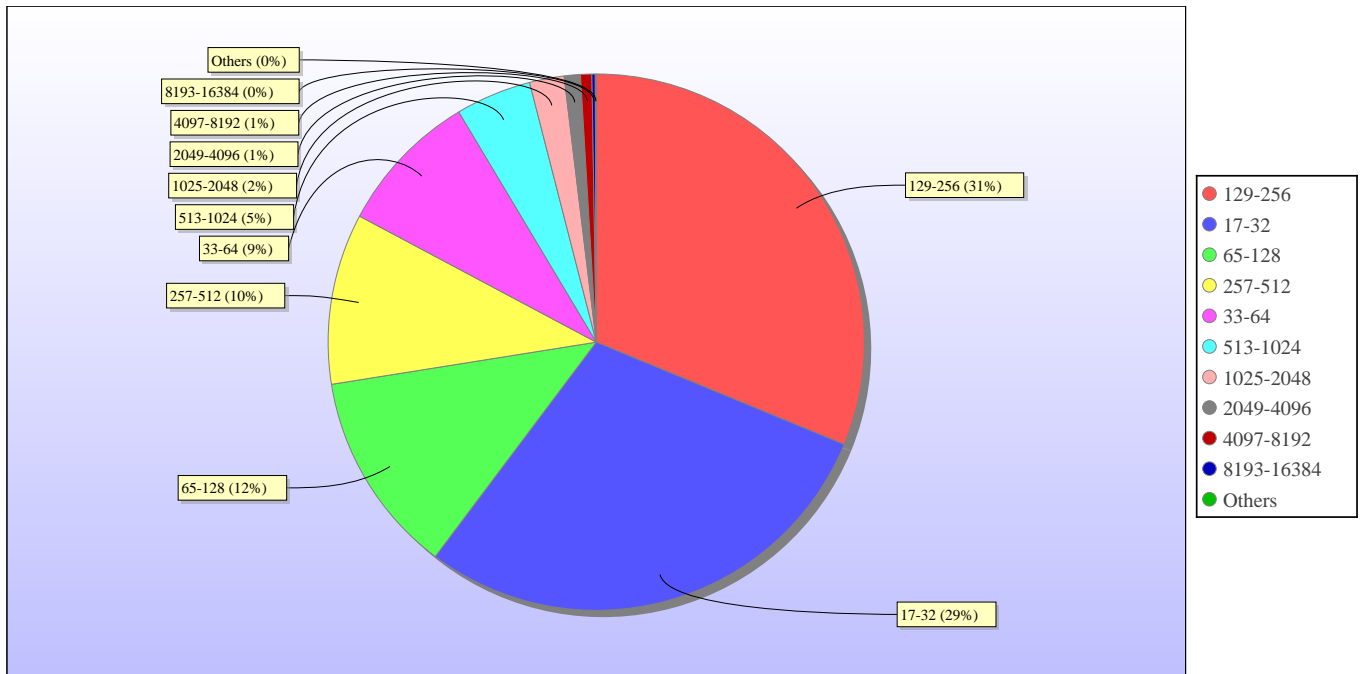
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	17,253.131	20,379
33-64	9,078.38	6,070
65-128	64,871.578	8,590
129-256	169,068.571	21,927
257-512	173,044.721	7,232
513-1024	178,478.315	3,206
1025-2048	181,418.117	1,464
2049-4096	175,495.744	686
4097-8192	103,808.229	478
8193-16384	51,030.528	140
16385-32768	14,939.858	30
32769-65536	10,534.256	11
65537-131072	508.375	2

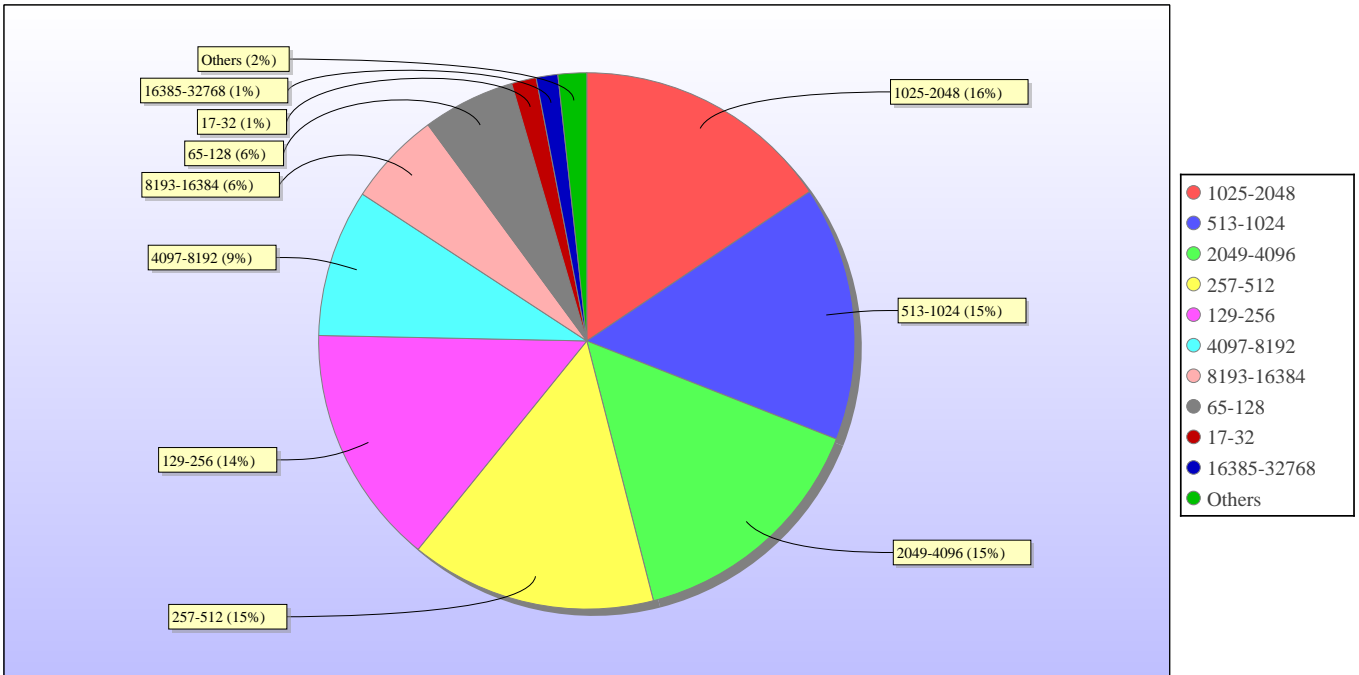
## Load plots



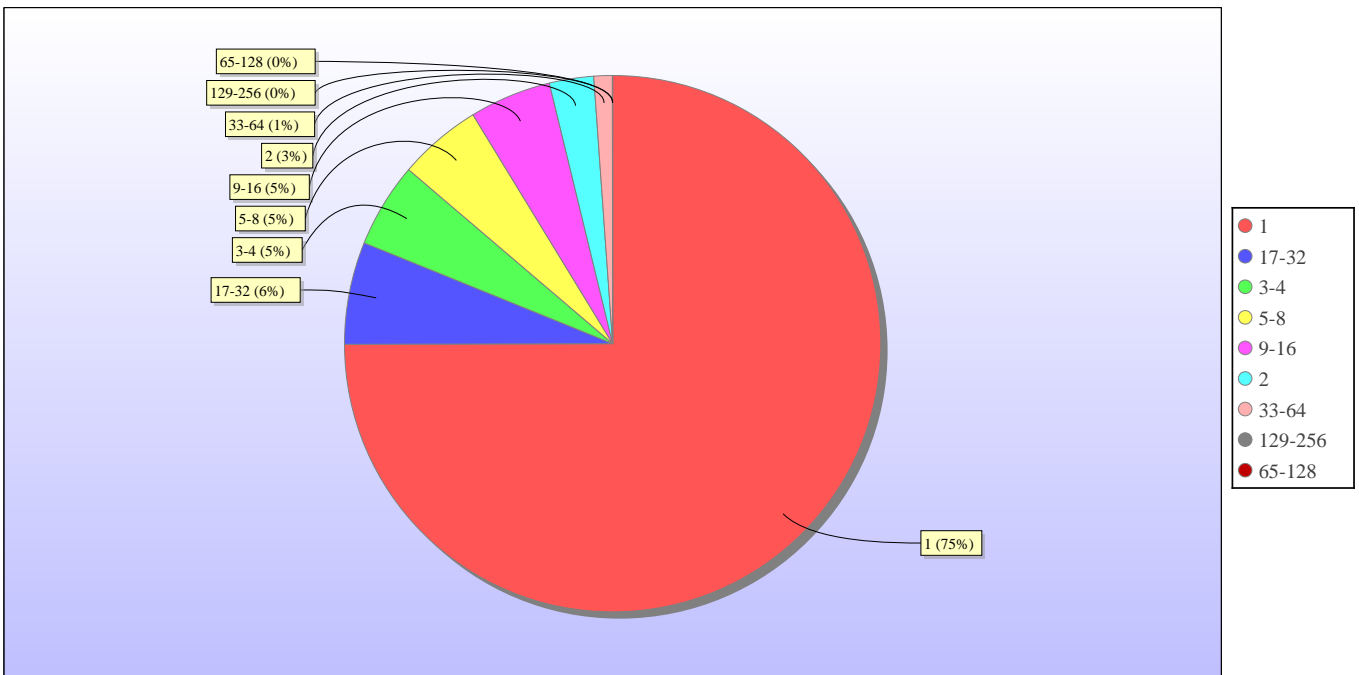
Percentage load on machine



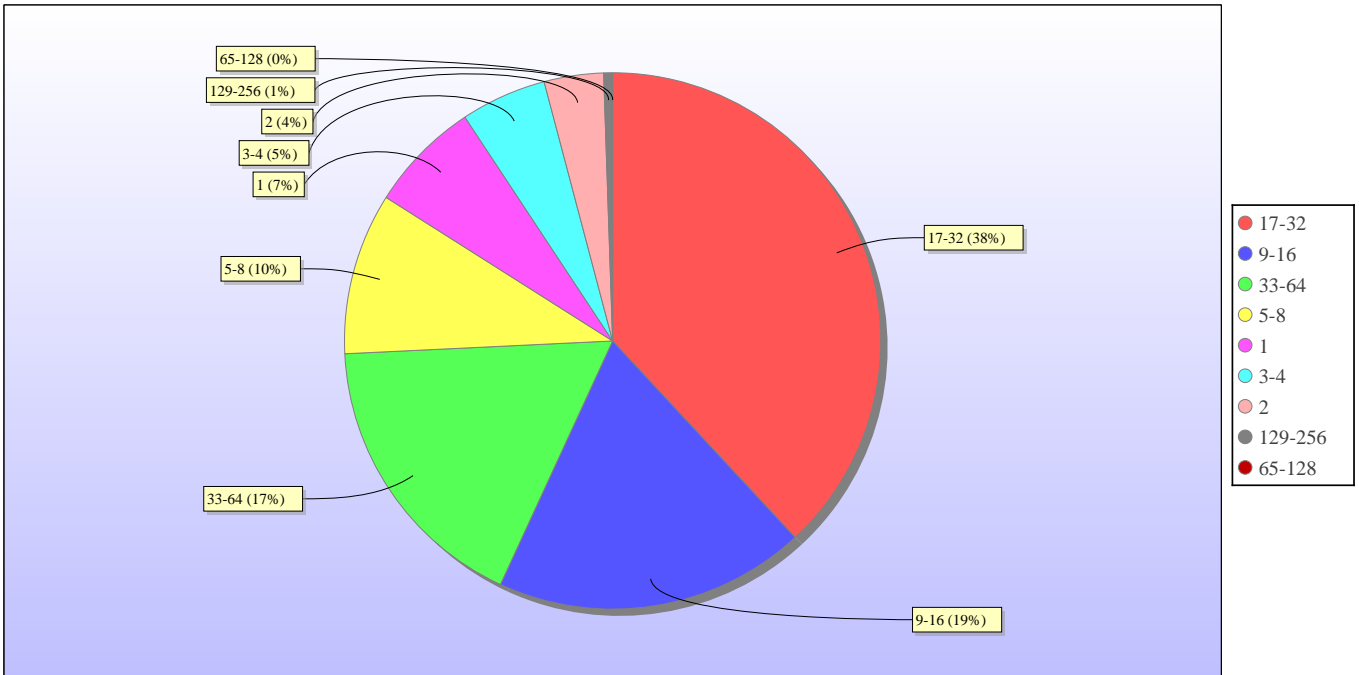




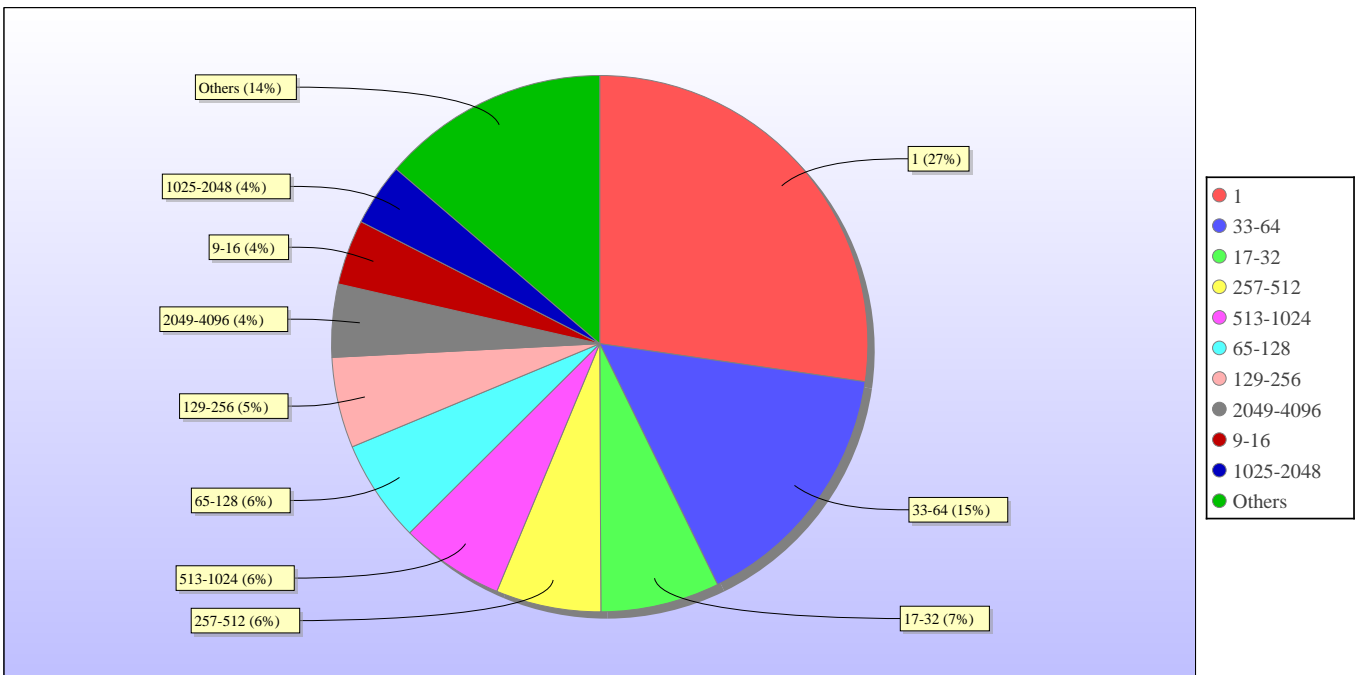
kAUs used by Size



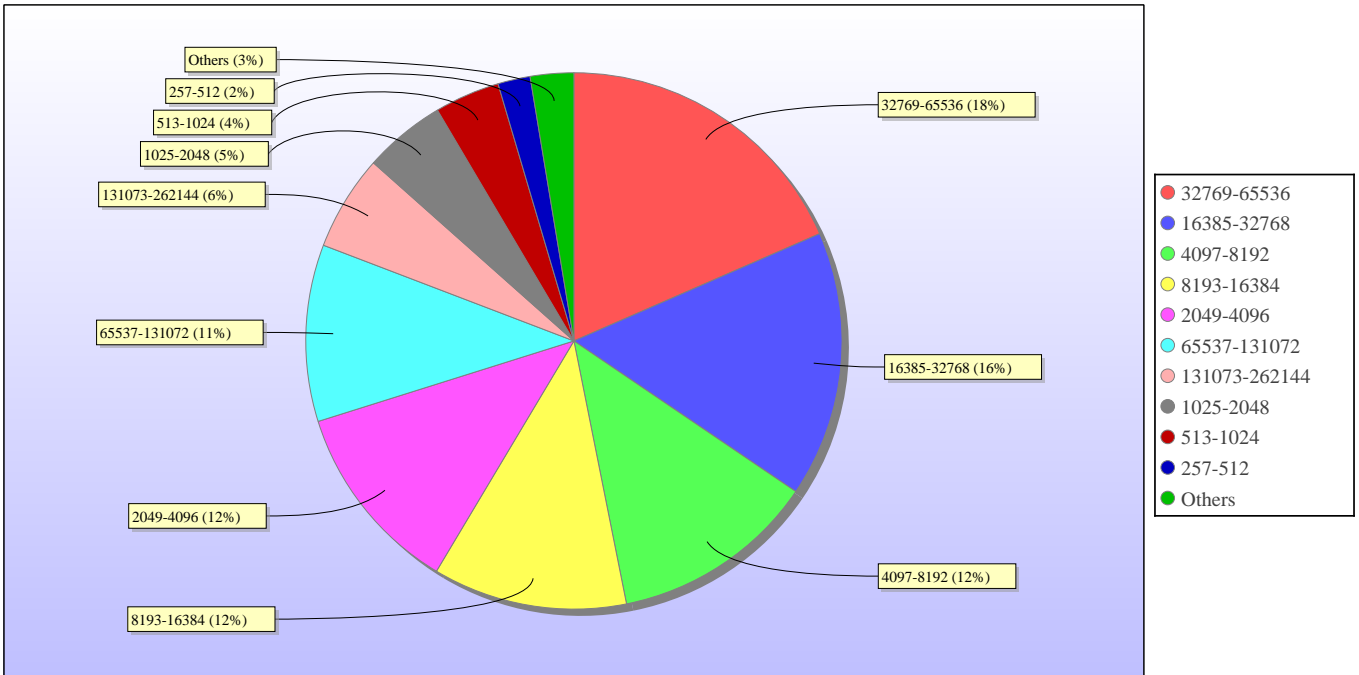
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

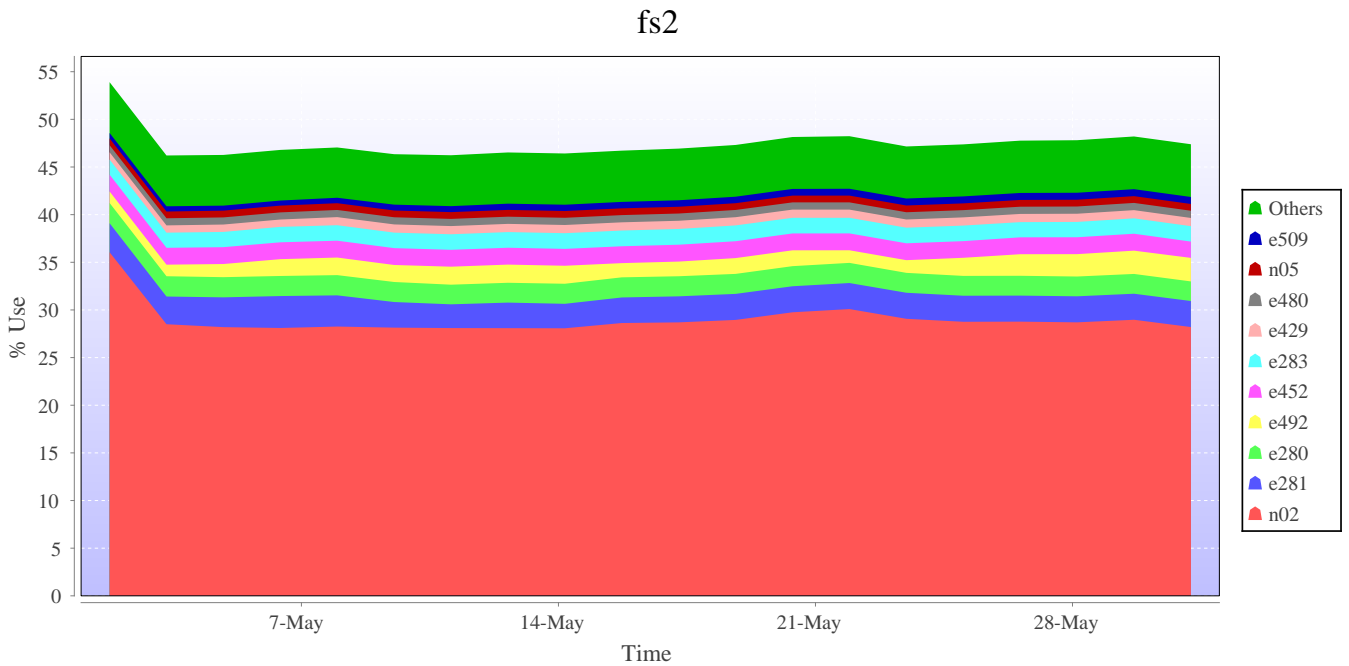


kAUs used grouped by core-hours

## Disk usage

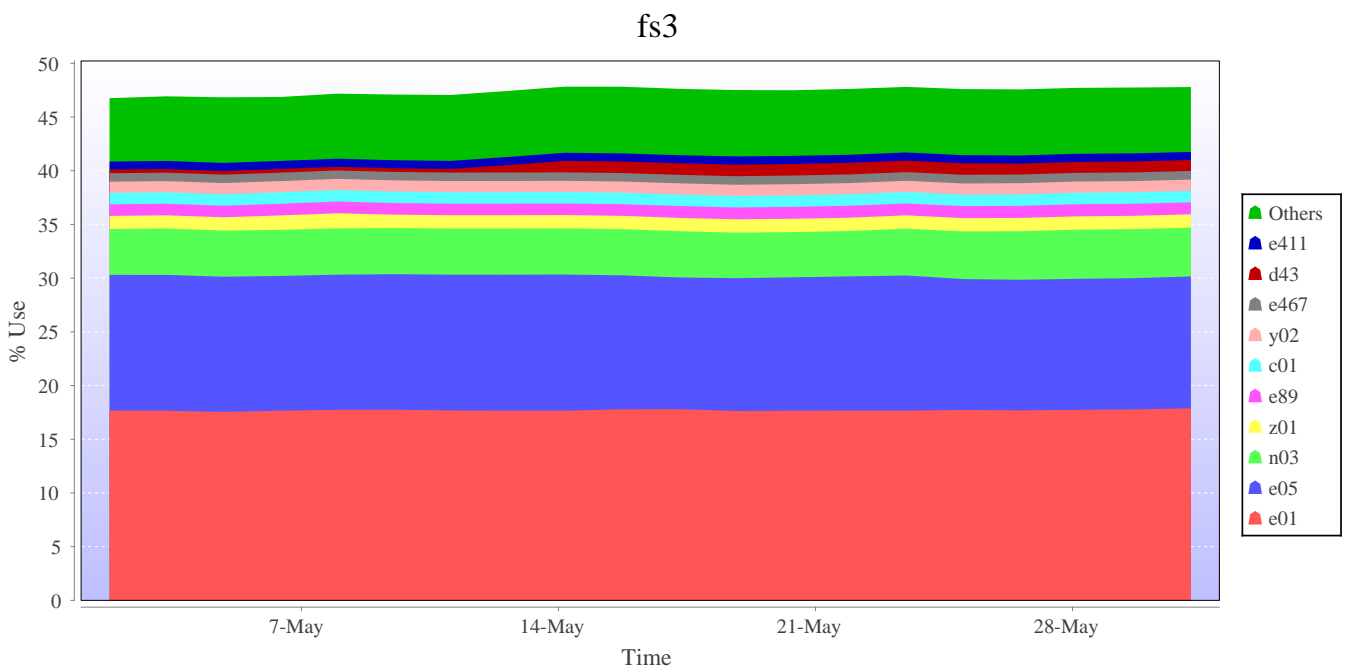
### Disk usage for work ( fs2 )

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.



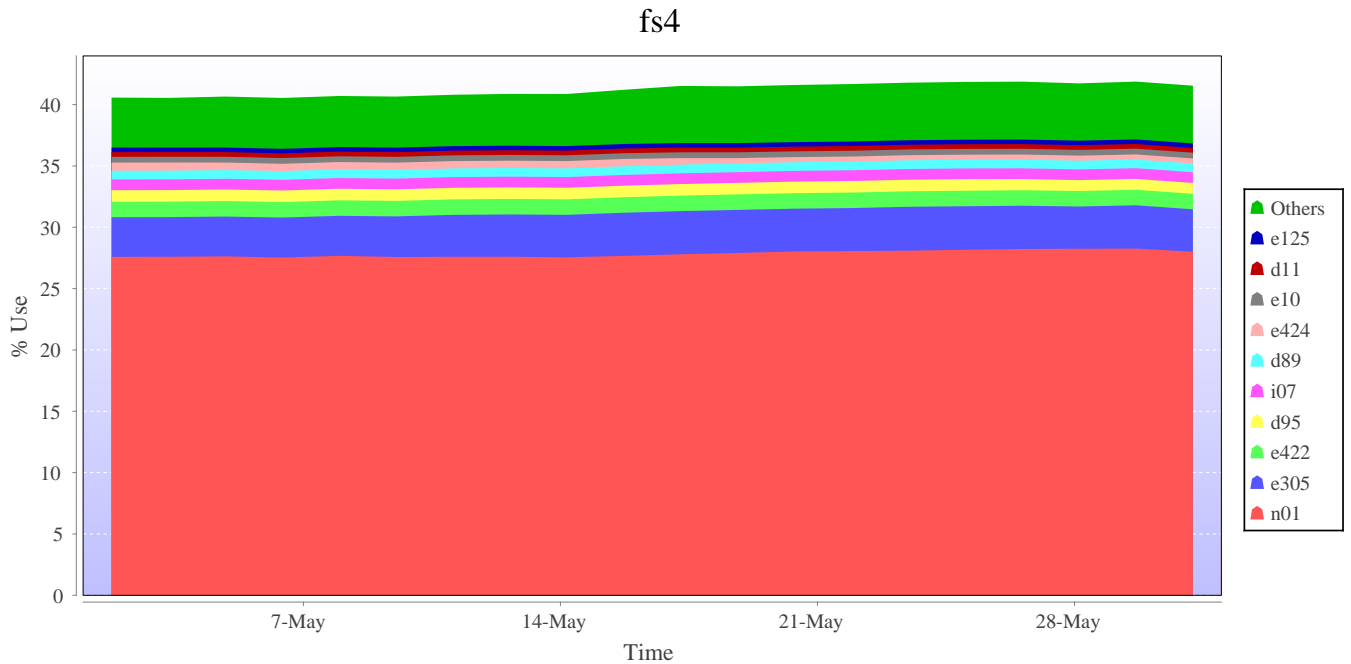
### Disk usage for work ( fs3 )

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.



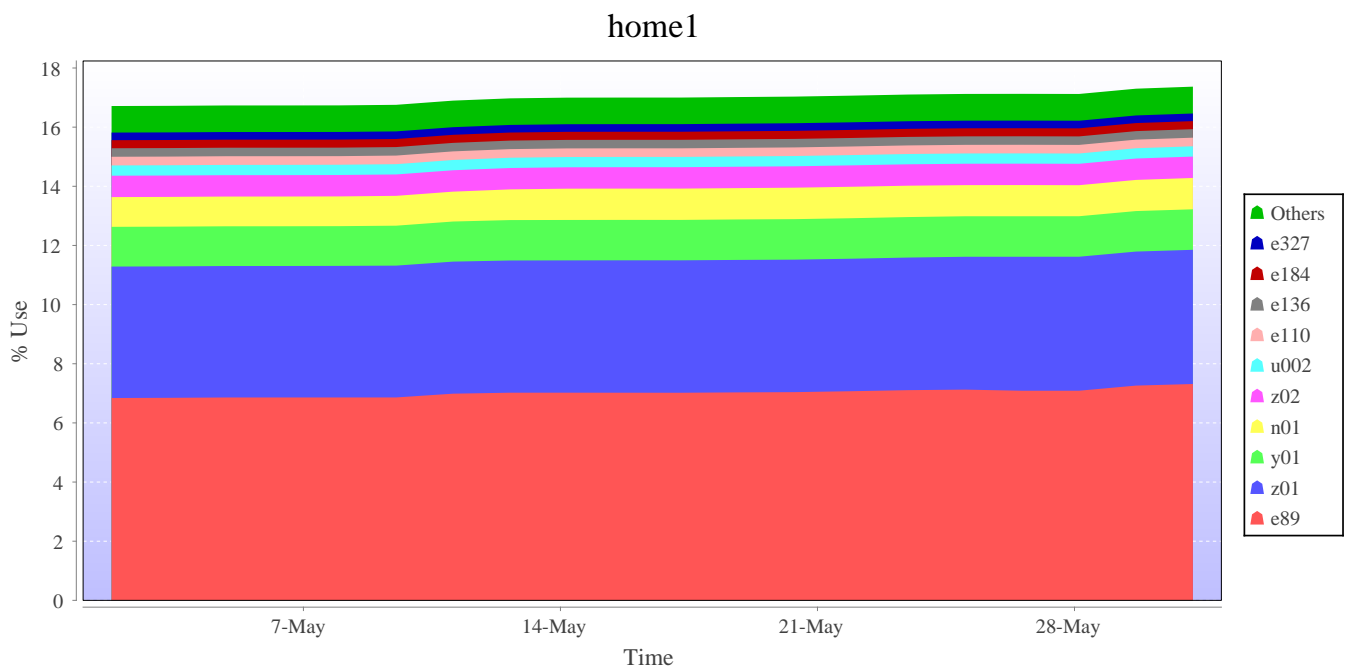
## Disk usage for work ( fs4 )

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.



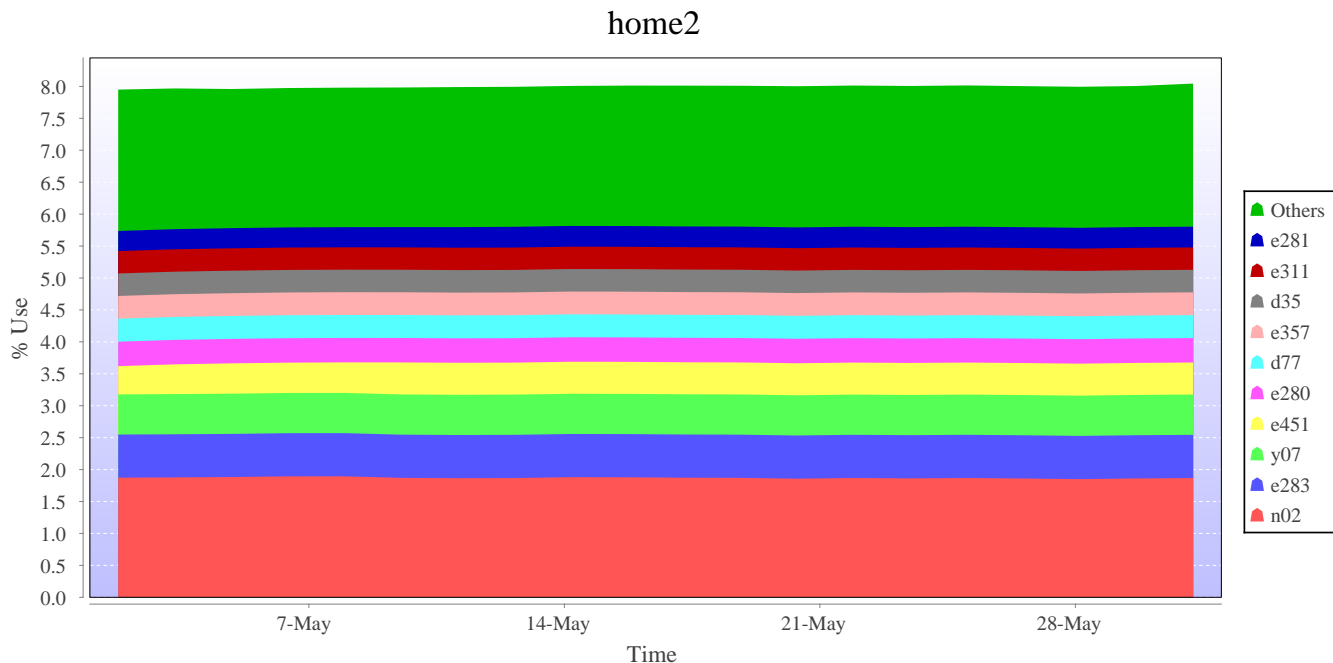
## Disk usage for home ( home1 )

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.



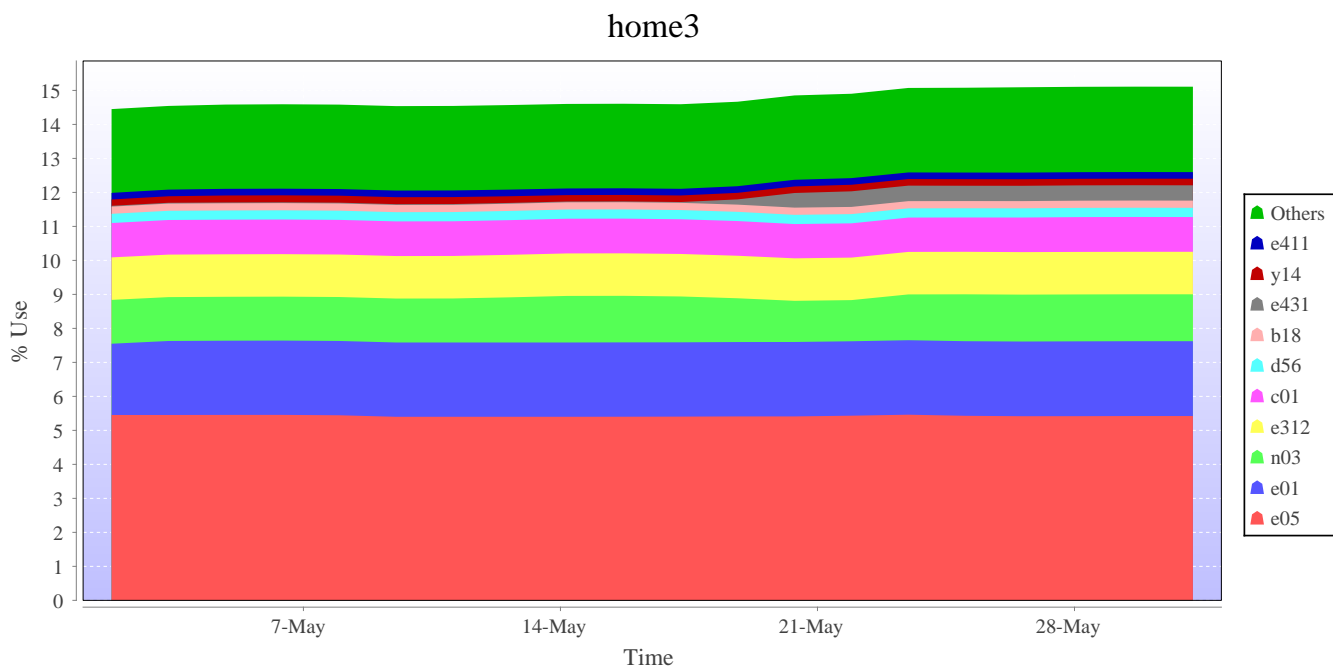
## Disk usage for home ( home2 )

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.

