

# Monthly Reporting

## Report from 01 August 2017 to 31 August 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.

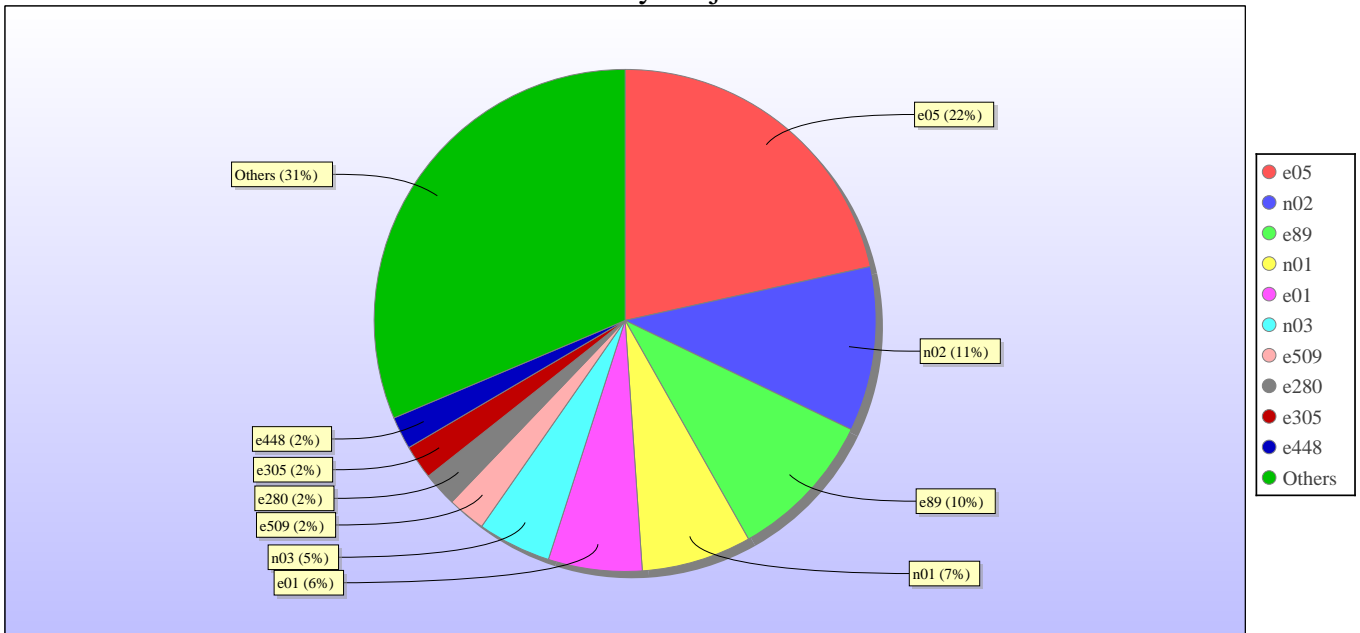
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	2,027	68,784.9	5.22%	68,787.0	5.22%	77,598.2	5.89%
e05	Consortia	9,419	240,269.9	18.23%	245,607.6	18.64%	217,886.1	16.53%
e89	Consortia	4,114	110,099.3	8.35%	110,131.0	8.36%	118,522.1	8.99%
e280	Consortia	563	25,060.8	1.90%	25,150.7	1.91%	40,069.6	3.04%
e281	Consortia	586	16,004.9	1.21%	16,055.4	1.22%	21,375.6	1.62%
e283	Consortia	470	5,461.4	0.41%	5,461.4	0.41%	16,968.2	1.29%
e305	Consortia	1,135	25,043.1	1.90%	25,049.1	1.90%	22,092.4	1.68%
e529	Consortia	246	23,858.9	1.81%	23,858.9	1.81%	13,651.0	1.04%
e453	Leadership Awards	0	0.0	0.00%	0.0	0.00%	5,727.0	0.43%
e461	Leadership Awards	418	10,271.4	0.78%	10,272.4	0.78%	8,264.7	0.63%
e462	Leadership Awards	107	996.6	0.08%	1,054.6	0.08%	4,502.9	0.34%
e464	Leadership Awards	53	2,225.7	0.17%	2,225.7	0.17%	9,914.8	0.75%
e465	Leadership Awards	38	2,989.9	0.23%	2,989.9	0.23%	10,538.5	0.80%
e466	Leadership Awards	24	17,105.9	1.30%	17,106.0	1.30%	8,927.3	0.68%
e507	Leadership Awards	194	22,447.5	1.70%	22,447.5	1.70%	10,200.8	0.77%
e509	Leadership Awards	217	27,697.6	2.10%	27,995.5	2.12%	18,803.3	1.43%
e510	Leadership Awards	0	0.0	0.00%	0.0	0.00%	8,422.0	0.64%
e526	Leadership Awards	49	20,821.1	1.58%	20,821.1	1.58%	4,847.6	0.37%
e539	Leadership Awards	0	0.0	0.00%	0.0	0.00%	19,795.1	1.50%
n07	Leadership Awards	3	479.6	0.04%	479.6	0.04%	5,097.2	0.39%
n08	Leadership Awards	36	0.3	0.00%	0.3	0.00%	12,311.8	0.93%
c01	Class1a	6,050	21,630.7	1.64%	21,659.2	1.64%	4,507.1	0.34%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	463.6	0.04%
e272	Class1a	114	995.7	0.08%	995.7	0.08%	3,388.0	0.26%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	201.3	0.02%
e300	Class1a	5	4,092.0	0.31%	4,092.0	0.31%	150.2	0.01%
e304	Class1a	144	1,885.5	0.14%	1,885.5	0.14%	5,256.8	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	328.9	0.02%
e341	Class1a	187	4,483.0	0.34%	4,483.0	0.34%	6,052.7	0.46%
e358	Class1a	26	2,234.7	0.17%	2,234.7	0.17%	658.1	0.05%
e365	Class1a	121	6,785.7	0.51%	6,785.7	0.51%	4,802.6	0.36%
e375	Class1a	109	8,984.4	0.68%	8,984.4	0.68%	2,864.8	0.22%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e378	Class1a	22	775.3	0.06%	775.3	0.06%	4,933.3	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	8,622.5	0.65%
e429	Class1a	53	695.2	0.05%	695.2	0.05%	1,035.7	0.08%
e431	Class1a	113	3,243.5	0.25%	3,243.5	0.25%	1,075.2	0.08%
e432	Class1a	160	1,272.1	0.10%	1,272.1	0.10%	4,969.0	0.38%
e446	Class1a	435	14,647.8	1.11%	14,647.8	1.11%	17,289.2	1.31%
e448	Class1a	714	23,840.1	1.81%	23,948.6	1.82%	42,064.1	3.19%
e451	Class1a	8	3,324.6	0.25%	3,324.6	0.25%	4,931.5	0.37%
e452	Class1a	0	0.0	0.00%	0.0	0.00%	514.8	0.04%
e475	Class1a	92	386.3	0.03%	386.3	0.03%	3,439.4	0.26%
e477	Class1a	155	3,971.0	0.30%	4,042.8	0.31%	4,311.5	0.33%
e480	Class1a	12	630.7	0.05%	630.7	0.05%	3,951.7	0.30%
e499	Class1a	0	0.0	0.00%	0.0	0.00%	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	86	911.4	0.07%	911.4	0.07%	842.2	0.06%
e516	Class1a	210	13,554.7	1.03%	13,554.7	1.03%	12,589.1	0.96%
e518	Class1a	135	1,161.8	0.09%	1,161.8	0.09%	508.2	0.04%
e519	Class1a	772	18,823.0	1.43%	18,823.0	1.43%	8,469.9	0.64%
e520	Class1a	13	5,402.8	0.41%	5,402.8	0.41%	2,526.6	0.19%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	5,053.2	0.38%
e527	Class1a	79	4,159.3	0.32%	4,159.3	0.32%	1,020.5	0.08%
e530	Class1a	33	1,652.7	0.13%	1,652.7	0.13%	508.2	0.04%
e537	Class1a	12	193.2	0.01%	193.2	0.01%	6,552.3	0.50%
e554	Class1b	0	0.0	0.00%	0.0	0.00%	48.9	0.00%
e348	Direct Access: ARCHER RAP	148	5,131.3	0.39%	5,131.3	0.39%	3,670.9	0.28%
e484	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,546.5	0.12%
e541	Direct Access: ARCHER RAP	2	0.0	0.00%	0.0	0.00%	2,715.1	0.21%
e542	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,643.8	0.12%
e543	Direct Access: ARCHER RAP	41	721.7	0.05%	721.7	0.05%	2,142.7	0.16%
e545	Direct Access: ARCHER RAP	76	324.9	0.02%	324.9	0.02%	823.4	0.06%
e546	Direct Access: ARCHER RAP	206	5,434.0	0.41%	5,434.0	0.41%	2,474.0	0.19%
e547	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,526.6	0.19%
e548	Direct Access: ARCHER RAP	330	1,547.5	0.12%	1,547.5	0.12%	2,348.2	0.18%
e549	Direct Access: ARCHER RAP	87	1,918.5	0.15%	1,918.5	0.15%	1,664.3	0.13%
e550	Direct Access: ARCHER RAP	231	2,137.0	0.16%	2,137.0	0.16%	2,547.9	0.19%
e552	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,136.1	0.24%
e553	Direct Access: ARCHER RAP	19	7.5	0.00%	7.5	0.00%	3,102.9	0.24%
e525	Instant Access	0	0.0	0.00%	0.0	0.00%	45.8	0.00%
e528	Instant Access	0	0.0	0.00%	0.0	0.00%	92.8	0.01%
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	77	72.6	0.01%	72.6	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	1	0.5	0.00%	0.5	0.00%	202.1	0.02%
e544	Instant Access	0	0.0	0.00%	0.0	0.00%	194.7	0.01%
e557	Instant Access	0	0.0	0.00%	0.0	0.00%	0.5	0.00%
e495	Training	418	296.1	0.02%	296.1	0.02%	2,286.9	0.17%
e508	Training	115	570.6	0.04%	573.3	0.04%	2,062.2	0.16%
e521	Training	9	191.8	0.01%	191.8	0.01%	1,764.3	0.13%

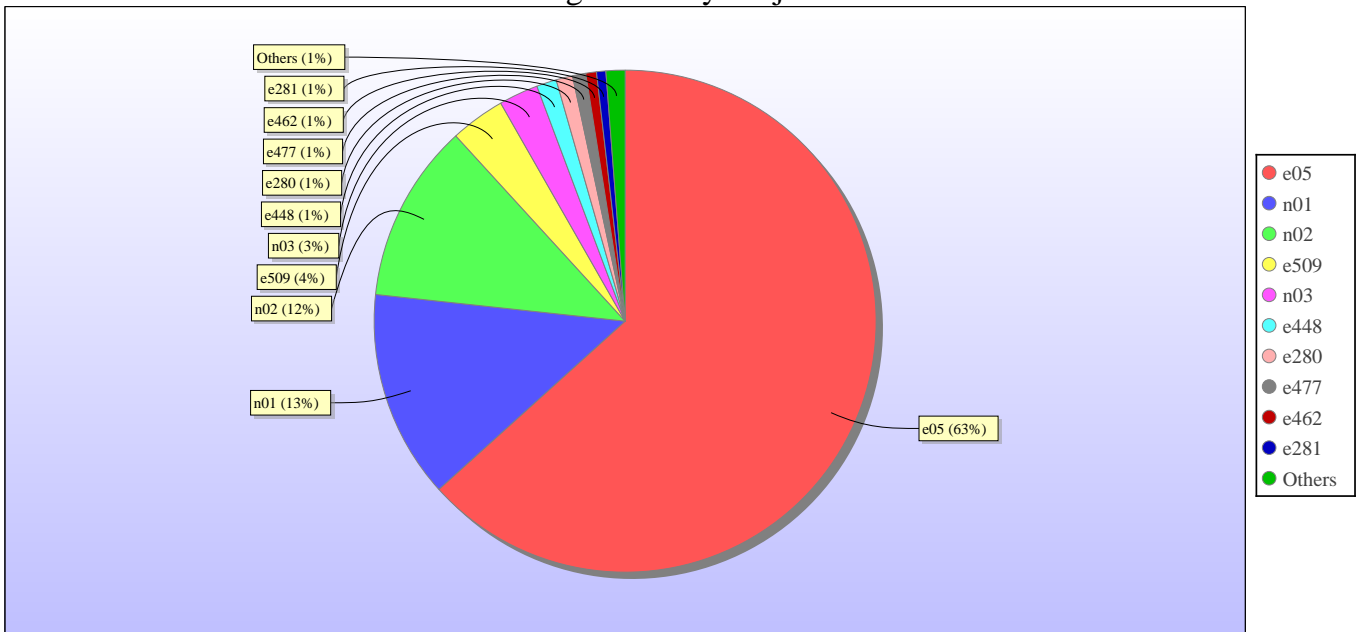
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e538	Training	944	5,672.9	0.43%	5,674.2	0.43%	2,896.7	0.22%
<b>EPSRC Total</b>		<b>32,263</b>	<b>793,382.8</b>	<b>60.21%</b>	<b>799,470.4</b>	<b>60.67%</b>	<b>871,483.9</b>	<b>66.13%</b>
n01	Consortia	3,062	80,570.1	6.11%	80,768.7	6.13%	50,958.9	3.87%
n02	Consortia	10,606	119,846.0	9.09%	120,816.9	9.17%	161,369.9	12.25%
n03	Consortia	3,450	53,779.3	4.08%	53,993.2	4.10%	65,652.1	4.98%
<b>NERC Total</b>		<b>17,118</b>	<b>254,195.4</b>	<b>19.29%</b>	<b>255,578.8</b>	<b>19.39%</b>	<b>277,980.8</b>	<b>21.09%</b>
pr1u1352	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	187.5	0.01%
pr1u1356	DECI: EXEC	98	415.0	0.03%	415.0	0.03%	820.2	0.06%
pr1u1358	DECI: EXEC	5	68.5	0.01%	68.5	0.01%	4,141.8	0.31%
pr1u1360	DECI: EXEC	1	11.5	0.00%	11.5	0.00%	3,491.4	0.26%
pr1u1362	DECI: EXEC	86	1,613.3	0.12%	1,613.3	0.12%	824.5	0.06%
pr1u1363	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,691.4	0.20%
pr1u1451	DECI: EXEC	46	2,699.4	0.20%	2,699.4	0.20%	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	63	8,927.3	0.68%	8,927.3	0.68%	6,309.3	0.48%
pr1u1455	DECI: EXEC	20	477.3	0.04%	477.3	0.04%	1,607.7	0.12%
pr1u1456	DECI: EXEC	0	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	1	0.0	0.00%	0.0	0.00%	195.4	0.01%
pr1u1304	DECI: HOME	565	6,776.5	0.51%	6,776.5	0.51%	4,495.0	0.34%
pr1u1311	DECI: HOME	159	1,144.9	0.09%	1,144.9	0.09%	678.3	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	42	465.0	0.04%	465.0	0.04%	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>1,086</b>	<b>22,598.7</b>	<b>1.71%</b>	<b>22,598.7</b>	<b>1.71%</b>	<b>57,325.4</b>	<b>4.35%</b>
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	26.5	0.00%
ecse0706	eCSE	6	7.6	0.00%	7.6	0.00%	139.6	0.01%
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%	91.2	0.01%
ecse0803	eCSE	4	0.1	0.00%	0.1	0.00%	46.4	0.00%
ecse0804	eCSE	10	110.3	0.01%	110.3	0.01%	38.1	0.00%
ecse0807	eCSE	0	0.0	0.00%	0.0	0.00%	39.0	0.00%
ecse0809	eCSE	0	0.0	0.00%	0.0	0.00%	69.4	0.01%
ecse0814	eCSE	10	0.0	0.00%	0.0	0.00%	45.5	0.00%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
ecse0820	eCSE	17	0.7	0.00%	0.7	0.00%	47.1	0.00%
ecse0904	eCSE	0	0.0	0.00%	0.0	0.00%	42.6	0.00%
ecse0910	eCSE	48	13.3	0.00%	13.3	0.00%	40.4	0.00%
ecse0919	eCSE	0	0.0	0.00%	0.0	0.00%	36.4	0.00%
<b>eCSE Total</b>		<b>95</b>	<b>131.9</b>	<b>0.01%</b>	<b>131.9</b>	<b>0.01%</b>	<b>745.3</b>	<b>0.06%</b>
d43	ECDF	102	13,490.3	1.02%	13,490.3	1.02%	5,945.2	0.45%
d25	Research	129	930.4	0.07%	930.4	0.07%	810.2	0.06%
d35	Research	176	97.3	0.01%	97.3	0.01%	424.7	0.03%
d56	Research	319	5,053.1	0.38%	5,053.1	0.38%	5,053.2	0.38%
d60	Research	0	0.0	0.00%	0.0	0.00%	204.0	0.02%
d67	Research	15	0.9	0.00%	0.9	0.00%	424.7	0.03%
d71	Research	15	129.7	0.01%	129.7	0.01%	578.0	0.04%
d87	Research	8	0.0	0.00%	0.2	0.00%	1,129.4	0.09%
d88	Research	80	20.6	0.00%	20.7	0.00%	13.4	0.00%
d96	Research	0	0.0	0.00%	0.0	0.00%	1,698.6	0.13%
d100	Research	0	0.0	0.00%	0.0	0.00%	363.8	0.03%
d101	Research	100	44.6	0.00%	44.6	0.00%	424.7	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%

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d114	Research	41	469.7	0.04%	469.8	0.04%	10,040.2	0.76%
d121	Research	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
d137	Research	176	7,499.3	0.57%	7,499.3	0.57%	2,547.9	0.19%
d141	Research	0	0.0	0.00%	0.0	0.00%	254.8	0.02%
d142	Research	62	5,727.7	0.43%	5,727.7	0.43%	5,895.4	0.45%
d143	Research	86	9,653.8	0.73%	9,653.8	0.73%	4,211.0	0.32%
d145	Research	0	0.0	0.00%	0.0	0.00%	2,547.9	0.19%
d146	Research	0	0.0	0.00%	0.0	0.00%	527.2	0.04%
d149	Research	18	513.1	0.04%	513.1	0.04%	4,246.6	0.32%
d150	Research	30	1,979.3	0.15%	1,979.3	0.15%	9,769.5	0.74%
d151	Research	0	0.0	0.00%	0.0	0.00%	337.0	0.03%
d152	Research	0	0.0	0.00%	0.0	0.00%	304.9	0.02%
d132	Industrial	1	1.0	0.00%	1.0	0.00%	108.4	0.01%
d153	Industrial	18	2.2	0.00%	2.4	0.00%	1,252.8	0.10%
e540	Industrial	0	0.0	0.00%	0.0	0.00%	1,639.9	0.12%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	79.3	0.01%
i07	Industrial	0	0.0	0.00%	0.0	0.00%	1,118.6	0.08%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	225.5	0.02%
i219	Industrial	31	54.6	0.00%	54.6	0.00%	168.4	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	106	331.1	0.03%	331.1	0.03%	1,358.9	0.10%
d74	Training	0	0.0	0.00%	0.0	0.00%	55.2	0.00%
d122	Training	525	125.5	0.01%	125.5	0.01%	431.8	0.03%
d133	Training	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
d154	Training	0	0.0	0.00%	0.0	0.00%	10.9	0.00%
e482	Training	0	0.0	0.00%	0.0	0.00%	509.6	0.04%
d131	Service	204	258.0	0.02%	258.0	0.02%	851.6	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	202.1	0.02%
w12	Service	8	14.9	0.00%	14.9	0.00%	505.5	0.04%
w13	Service	53	1,191.4	0.09%	1,217.2	0.09%	505.5	0.04%
w14	Service	2	182.1	0.01%	182.1	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	24	1.0	0.00%	3.4	0.00%	169.9	0.01%
y07	Service	24	0.4	0.00%	0.6	0.00%	84.9	0.01%
z02	Service	1	0.2	0.00%	0.2	0.00%	424.7	0.03%
z17	Service	28	224.2	0.02%	224.2	0.02%	336.9	0.03%
z22	Service	0	0.0	0.00%	0.0	0.00%	5.0	0.00%
z99	Service	34	0.5	0.00%	0.5	0.00%	8.5	0.00%
d84	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d147	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	193.8	0.01%
d148	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	203.3	0.02%
d108	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	307.4	0.02%
DirectorsTime Total		2,416	47,996.6	3.64%	48,025.8	3.64%	70,427.3	5.34%
y14	Training	838	272.2	0.02%	181.5	0.01%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	78.3	0.01%
z01	Service	0	0.0	0.00%	0.0	0.00%	42.5	0.00%
z19	Service	435	1,552.1	0.12%	1,552.8	0.12%	5,520.5	0.42%
CSE Total		1,273	1,824.3	0.14%	1,734.2	0.13%	6,235.8	0.47%
i18	Industrial	64	11,974.3	0.91%	11,974.3	0.91%	1,606.5	0.12%
Industrial Total		64	11,974.3	0.91%	11,974.3	0.91%	1,606.5	0.12%
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		54,315	1,132,103.9	85.91%	1,139,514.1	86.47%	1,285,902.0	97.58%

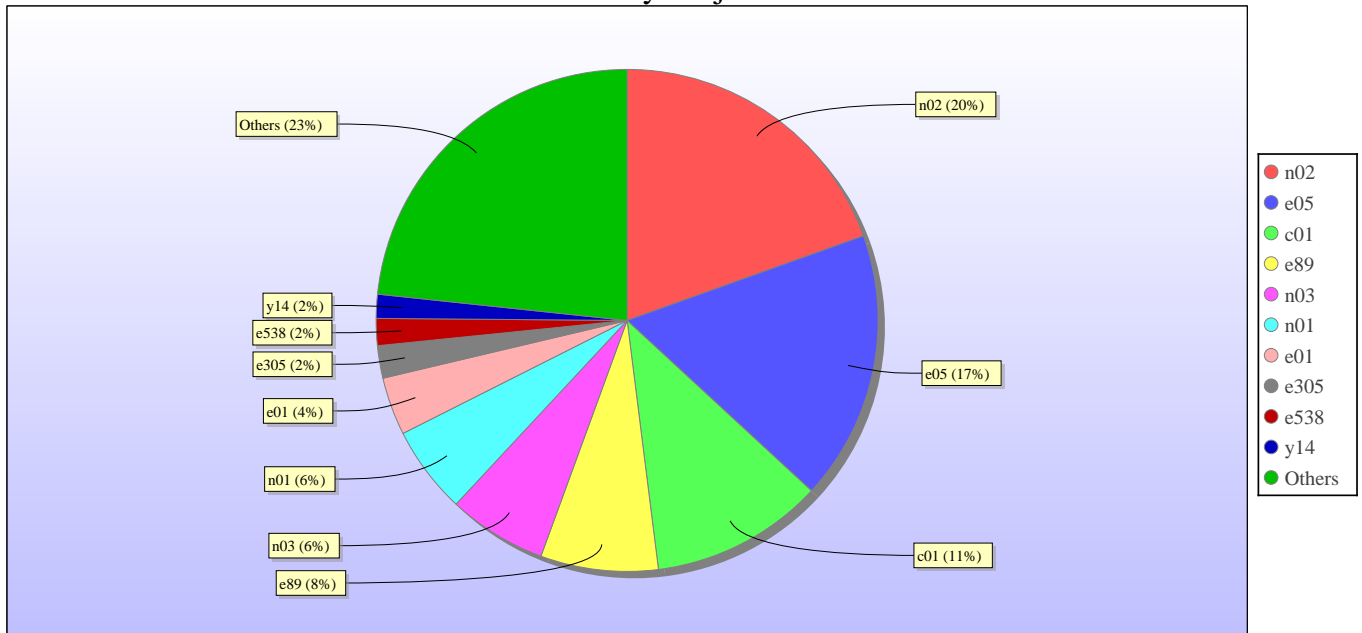
Use by Project



Uncharged Use by Project



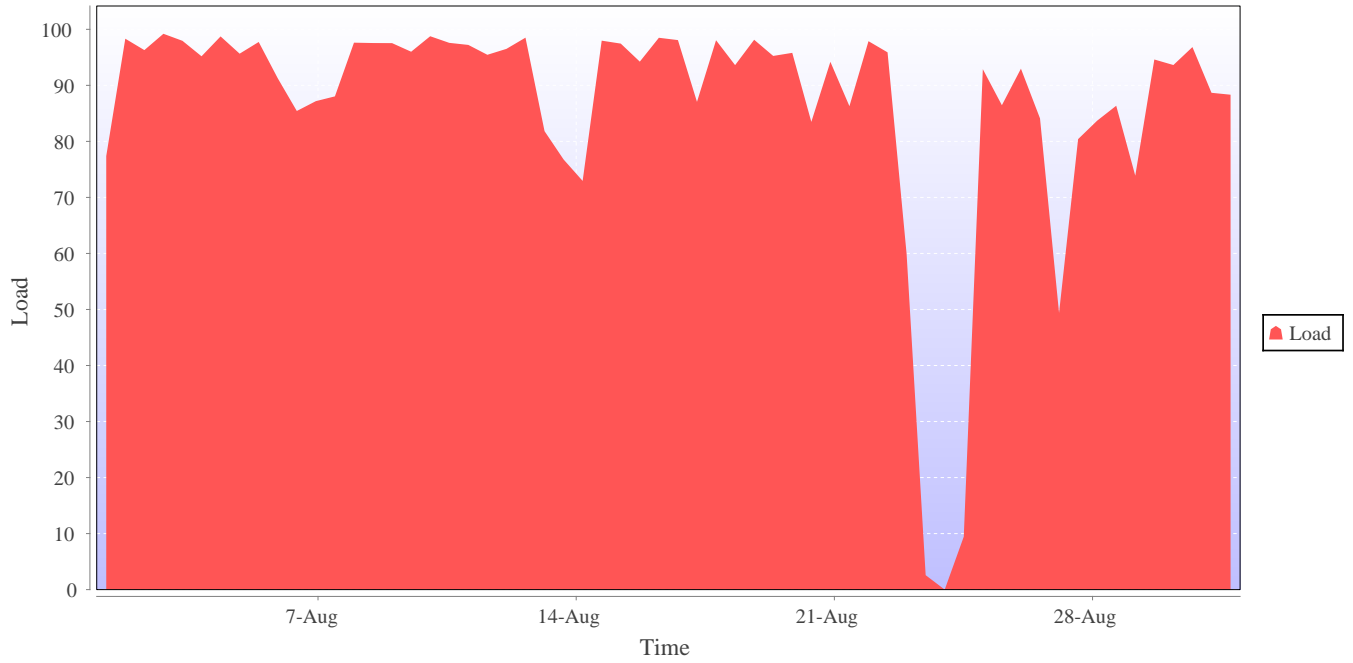
### Jobs by Project



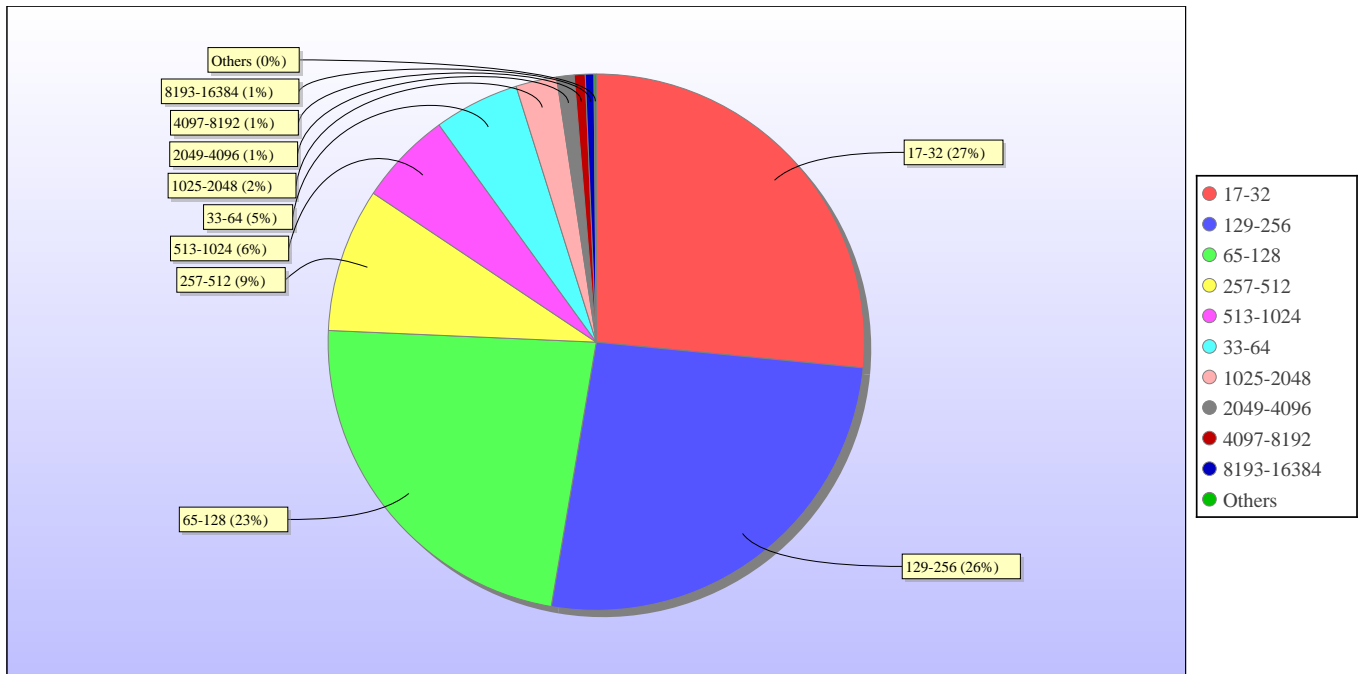
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	7,668.332	14,408
33-64	12,260.479	2,791
65-128	70,704.869	12,495
129-256	194,085.839	14,208
257-512	178,343.246	4,712
513-1024	168,542.065	3,070
1025-2048	160,292.101	1,339
2049-4096	109,852.968	571
4097-8192	104,877.787	360
8193-16384	73,572.887	283
16385-32768	47,159.015	67
32769-65536	1,279.59	5
65537-131072	401.818	1

## Load plots

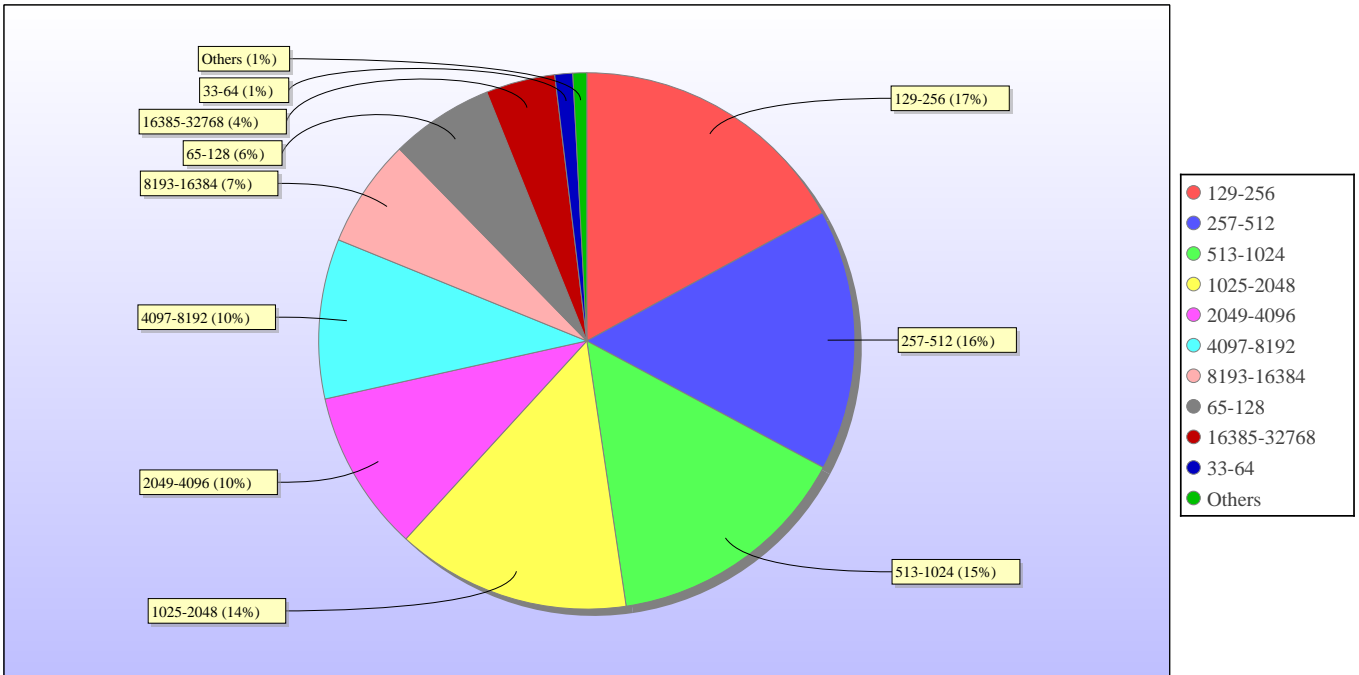


Percentage load on machine

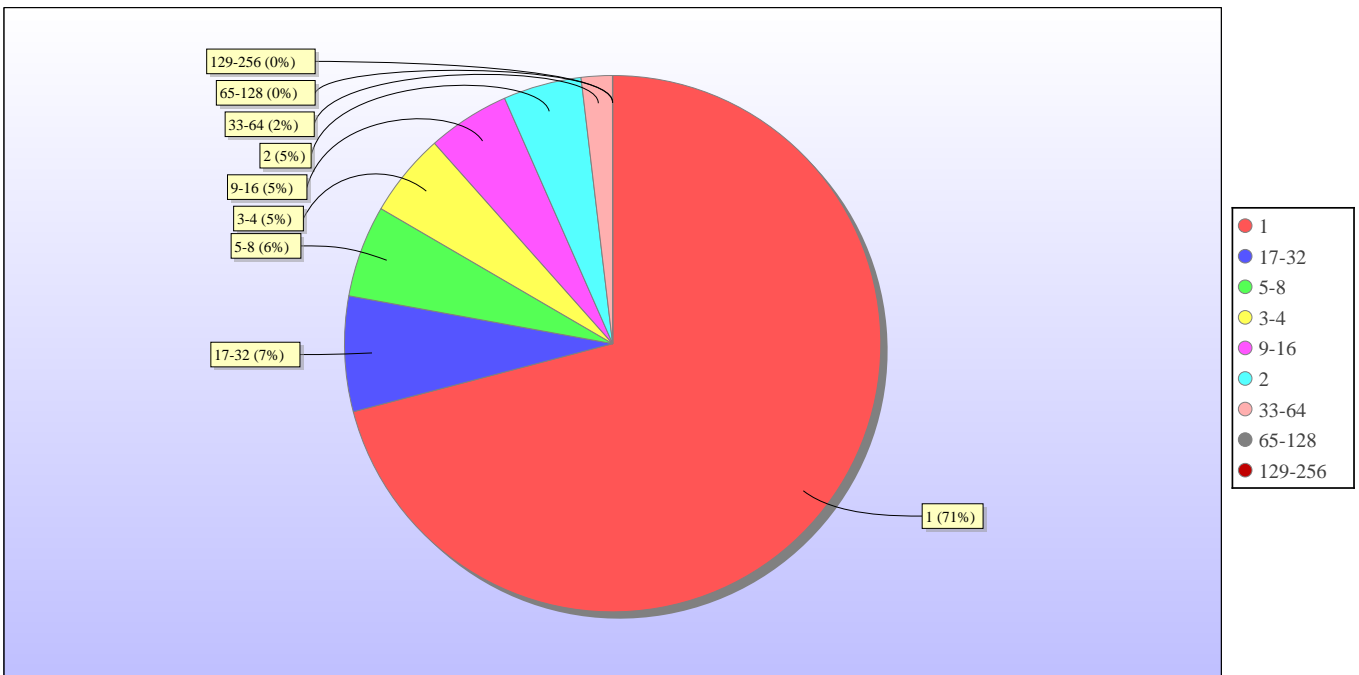


Jobs by Size

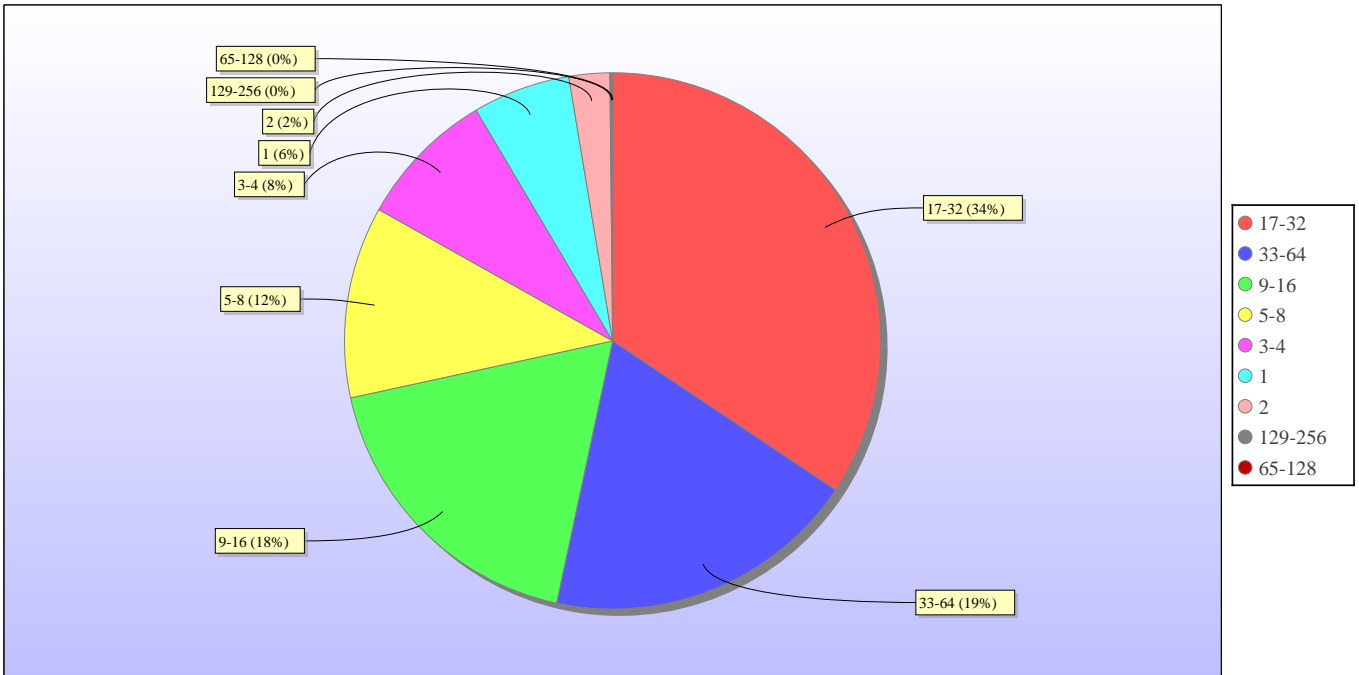




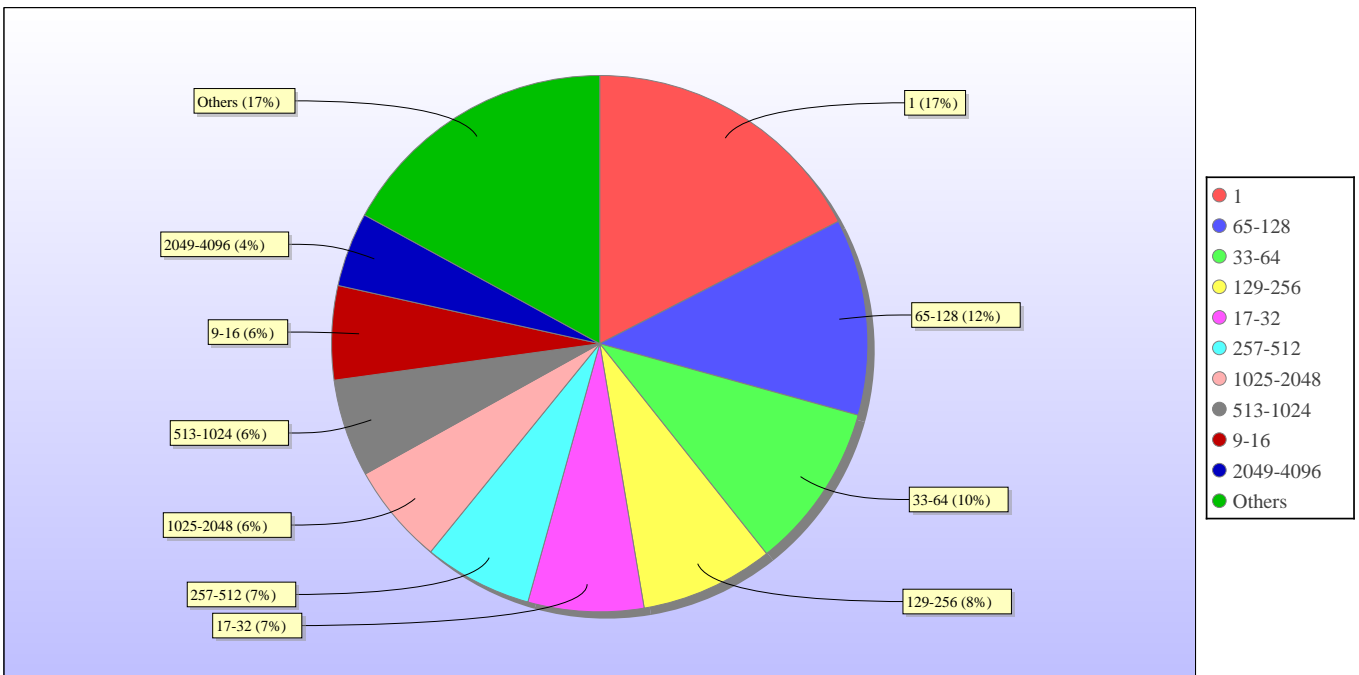
kAUs used by Size



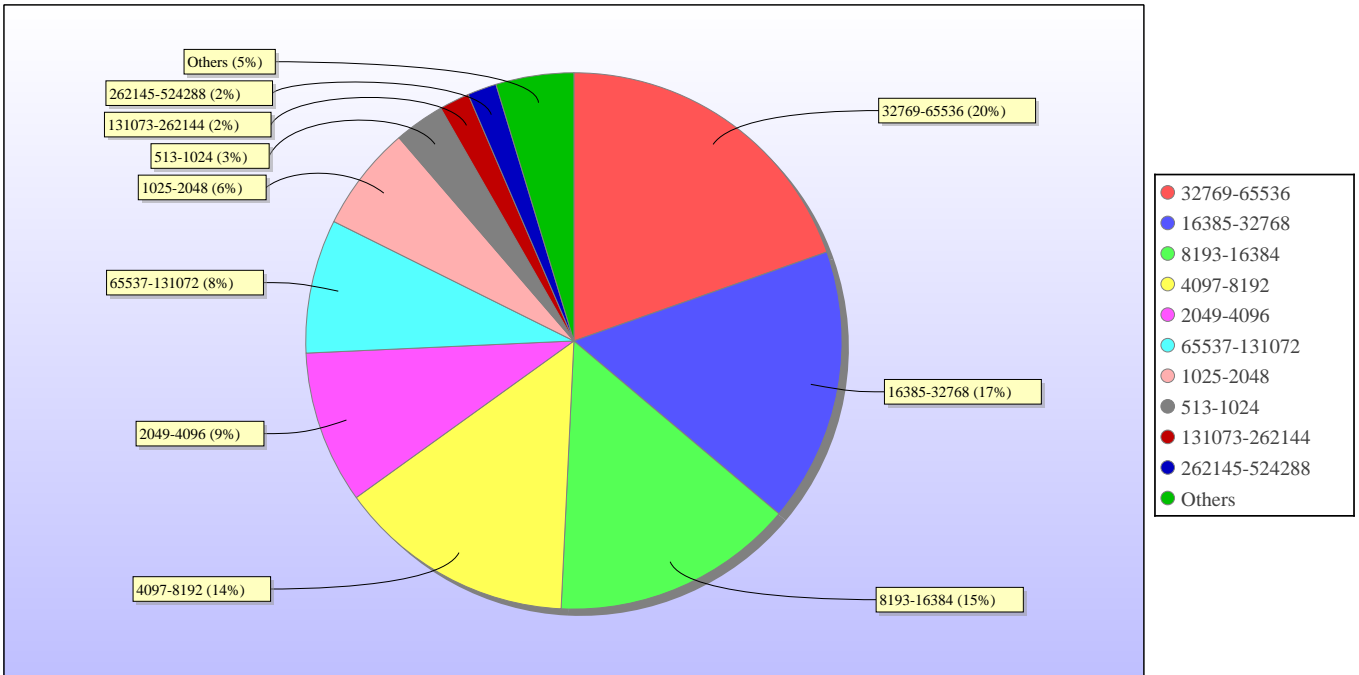
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

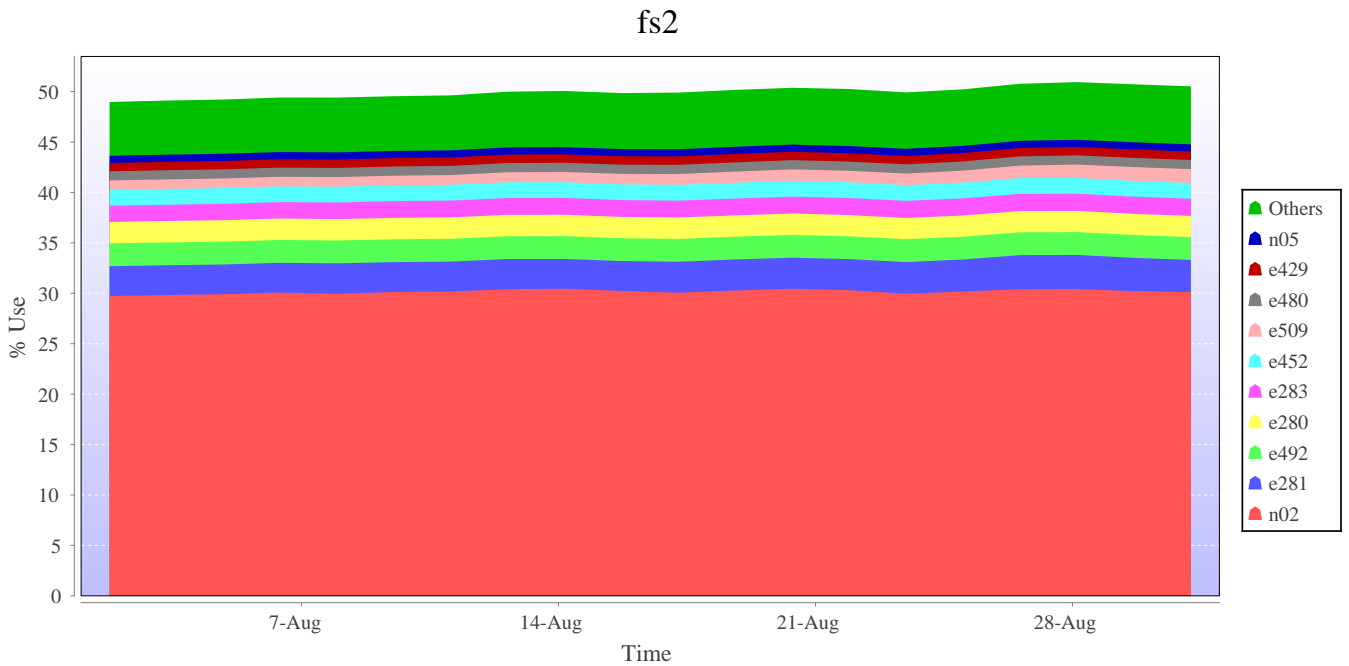


kAUs used grouped by core-hours

## Disk usage

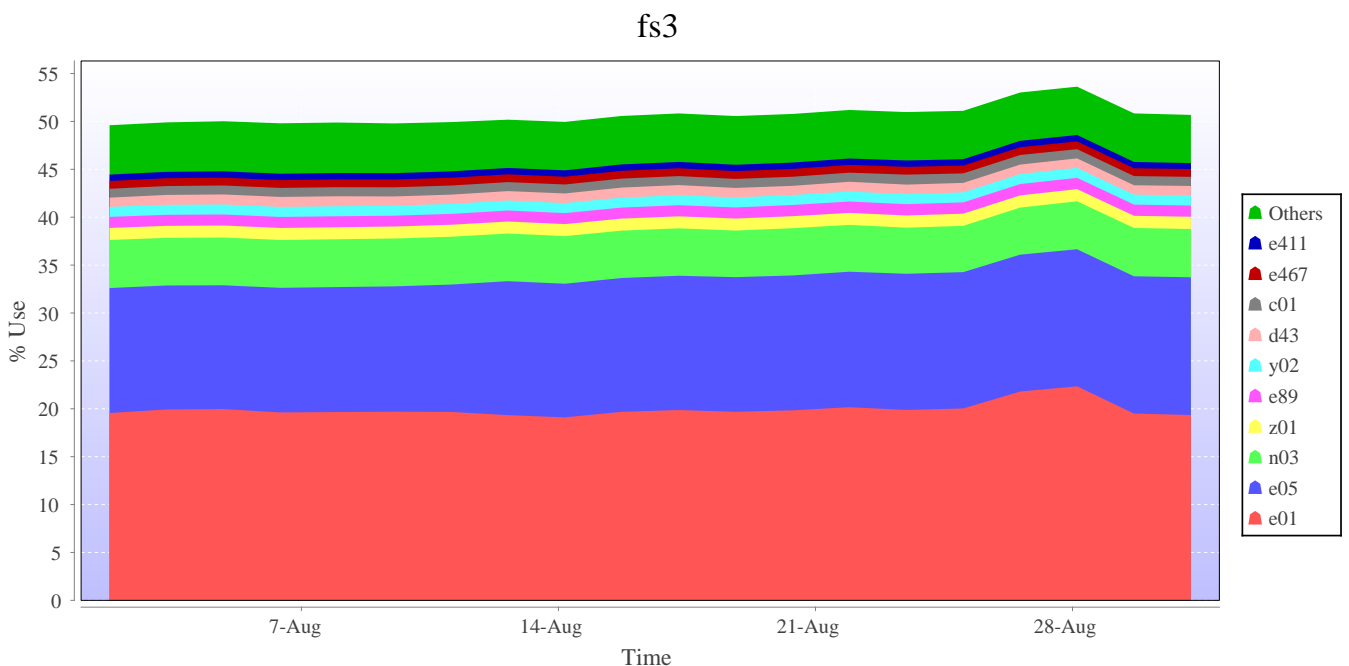
### Disk usage for work ( fs2 )

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.



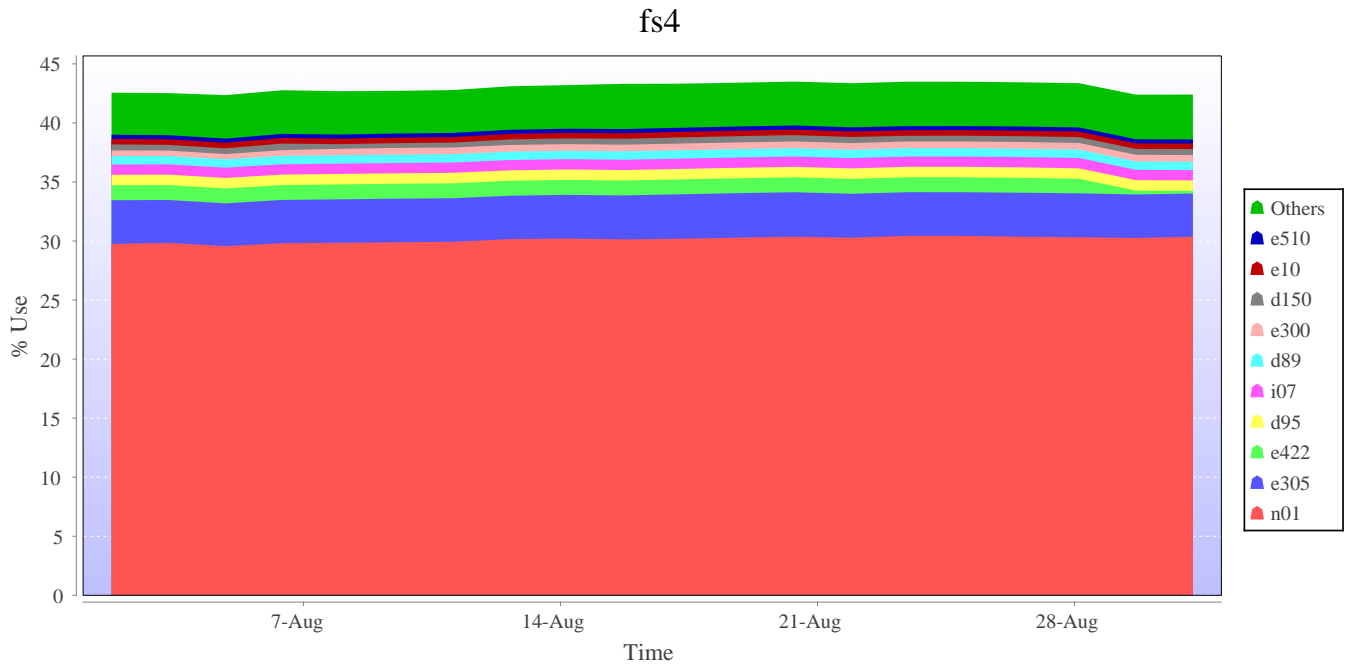
### Disk usage for work ( fs3 )

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.



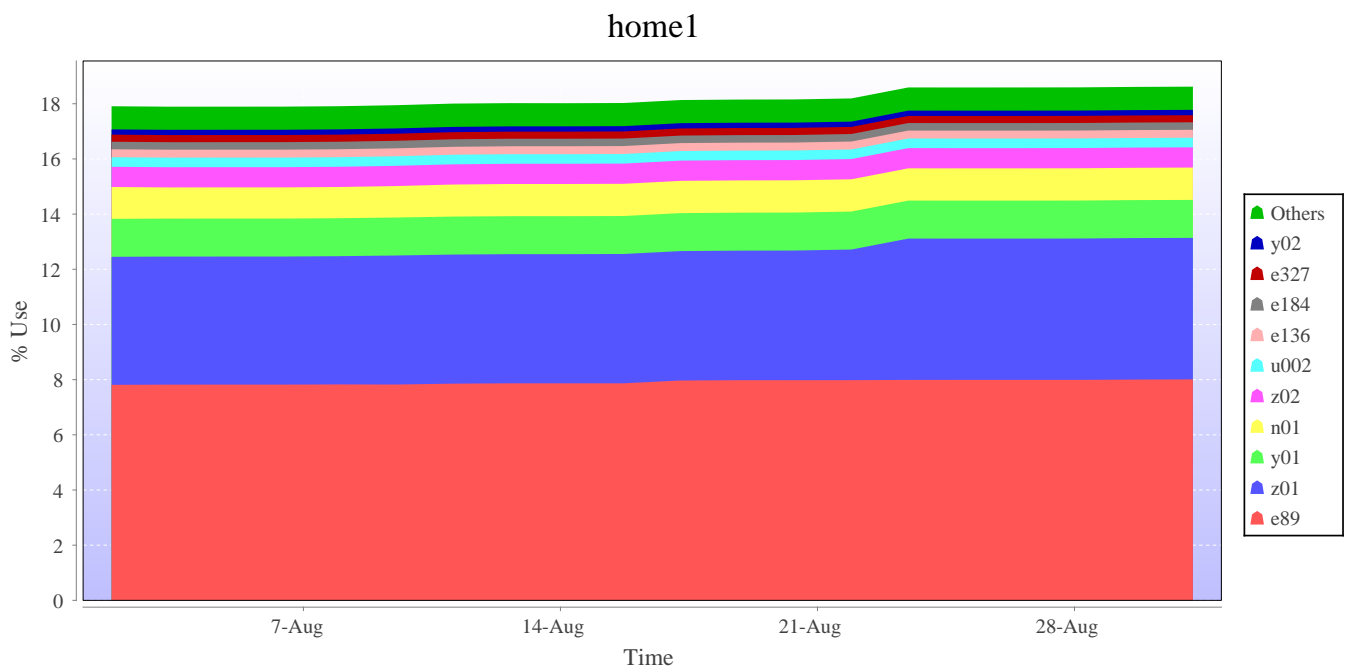
## Disk usage for work ( fs4 )

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.



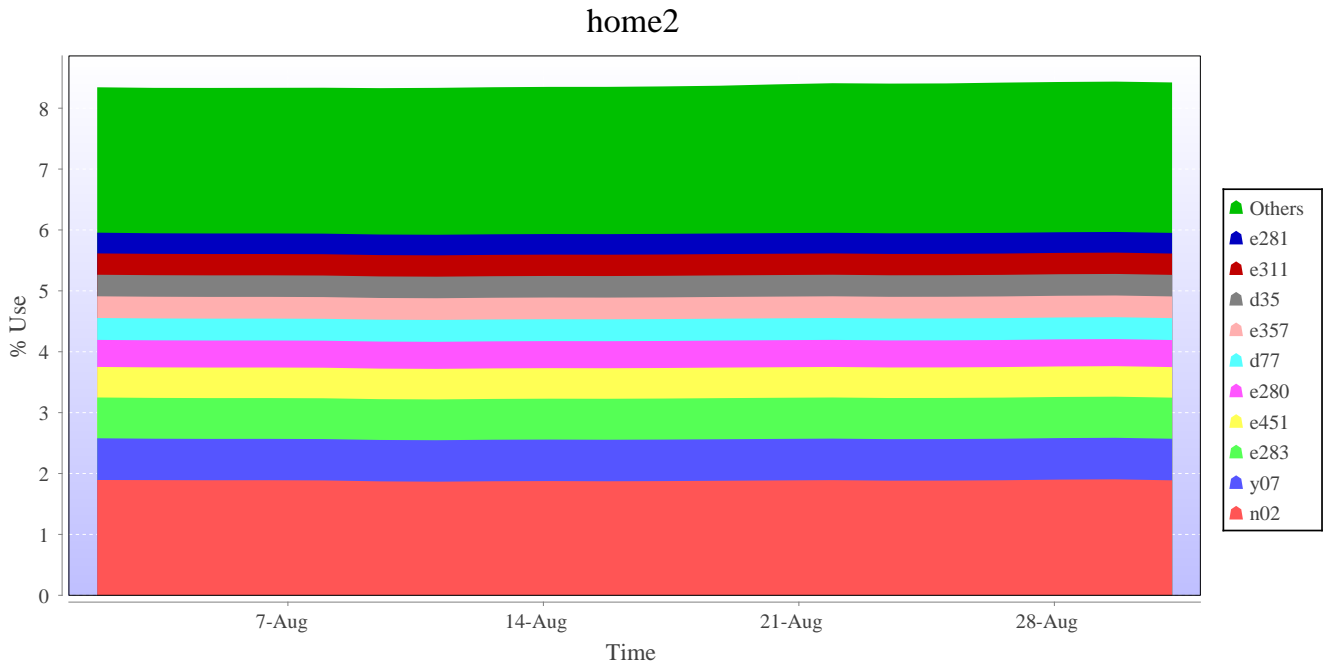
## Disk usage for home ( home1 )

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.

