

# Monthly Reporting

## Report from 01 July 2017 to 31 July 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 then the Use can be larger than the extrapolated Allocation.

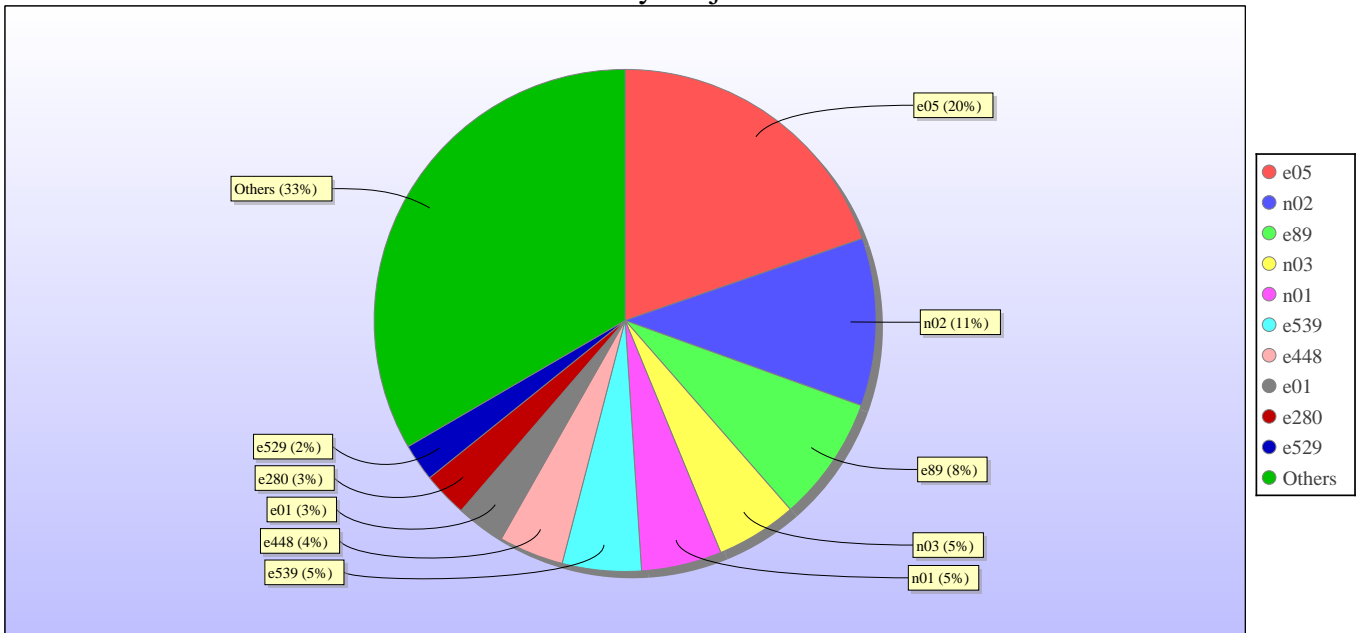
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	1,509	30,156.3	2.29%	34,736.5	2.64%	77,598.2	5.89%
e05	Consortia	14,016	217,145.2	16.48%	219,826.4	16.68%	219,397.3	16.65%
e89	Consortia	11,991	89,801.5	6.81%	89,906.1	6.82%	118,522.1	8.99%
e280	Consortia	1,767	32,182.4	2.44%	32,186.5	2.44%	40,069.6	3.04%
e281	Consortia	1,509	26,209.5	1.99%	26,210.0	1.99%	21,375.6	1.62%
e283	Consortia	915	8,964.3	0.68%	8,964.3	0.68%	16,968.2	1.29%
e305	Consortia	1,268	18,125.8	1.38%	18,168.2	1.38%	22,092.4	1.68%
e529	Consortia	453	26,862.0	2.04%	26,862.0	2.04%	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	1,014	21,808.2	1.65%	21,808.2	1.65%	8,264.7	0.63%
e462	Leadership Awards	477	11,909.3	0.90%	12,009.3	0.91%	4,502.9	0.34%
e464	Leadership Awards	431	10,857.7	0.82%	10,857.7	0.82%	9,914.8	0.75%
e465	Leadership Awards	107	10,975.8	0.83%	10,975.8	0.83%	10,538.5	0.80%
e466	Leadership Awards	161	10,847.7	0.82%	10,851.2	0.82%	8,927.3	0.68%
e467	Leadership Awards	0	0.0	0.00%	0.0	0.00%	921.1	0.07%
e507	Leadership Awards	88	1,056.4	0.08%	1,056.4	0.08%	10,278.6	0.78%
e509	Leadership Awards	103	485.9	0.04%	485.9	0.04%	18,803.3	1.43%
e510	Leadership Awards	1	0.5	0.00%	0.5	0.00%	8,422.0	0.64%
e526	Leadership Awards	33	2,833.8	0.22%	2,833.8	0.22%	3,340.5	0.25%
e539	Leadership Awards	7	56,696.9	4.30%	56,696.9	4.30%	29,221.3	2.22%
n07	Leadership Awards	11	2,646.7	0.20%	2,646.7	0.20%	5,097.2	0.39%
n08	Leadership Awards	226	298.9	0.02%	298.9	0.02%	12,311.8	0.93%
c01	Class1a	1,092	6,610.8	0.50%	6,610.8	0.50%	2,886.2	0.22%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	463.6	0.04%
e272	Class1a	655	6,297.1	0.48%	6,297.1	0.48%	3,388.0	0.26%
e291	Class1a	0	0.0	0.00%	0.0	0.00%	201.3	0.02%
e300	Class1a	20	3,409.7	0.26%	3,411.0	0.26%	581.9	0.04%
e304	Class1a	292	5,171.8	0.39%	5,279.4	0.40%	5,256.8	0.40%
e332	Class1a	0	0.0	0.00%	0.0	0.00%	328.9	0.02%
e341	Class1a	44	927.8	0.07%	927.8	0.07%	6,052.7	0.46%
e358	Class1a	10	26.1	0.00%	26.1	0.00%	658.1	0.05%

Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e365	Class1a	69	3,996.9	0.30%	3,996.9	0.30%	1,565.3	0.12%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	2,864.8	0.22%
e378	Class1a	32	798.4	0.06%	798.4	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	65	17,167.2	1.30%	17,719.7	1.34%	4,555.8	0.35%
e431	Class1a	136	11,414.5	0.87%	11,414.5	0.87%	2,905.0	0.22%
e432	Class1a	350	10,487.8	0.80%	10,487.8	0.80%	4,969.0	0.38%
e446	Class1a	564	17,735.6	1.35%	17,735.6	1.35%	17,289.2	1.31%
e448	Class1a	3,639	46,557.8	3.53%	46,557.8	3.53%	42,064.1	3.19%
e451	Class1a	0	0.0	0.00%	0.0	0.00%	4,931.5	0.37%
e452	Class1a	0	0.0	0.00%	0.0	0.00%	514.8	0.04%
e475	Class1a	50	224.0	0.02%	224.0	0.02%	3,426.2	0.26%
e477	Class1a	73	4,476.3	0.34%	4,476.3	0.34%	4,311.5	0.33%
e480	Class1a	53	3,504.8	0.27%	3,504.8	0.27%	3,951.7	0.30%
e499	Class1a	1	17.3	0.00%	17.3	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	544	1,431.2	0.11%	1,431.2	0.11%	856.6	0.06%
e516	Class1a	183	13,082.4	0.99%	13,082.4	0.99%	12,589.1	0.96%
e518	Class1a	7	61.7	0.00%	61.7	0.00%	508.2	0.04%
e519	Class1a	26,488	14,718.2	1.12%	14,718.2	1.12%	8,469.9	0.64%
e520	Class1a	0	0.0	0.00%	0.0	0.00%	2,526.6	0.19%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	5,053.2	0.38%
e527	Class1a	27	490.9	0.04%	490.9	0.04%	359.8	0.03%
e530	Class1a	14	651.7	0.05%	651.7	0.05%	508.2	0.04%
e537	Class1a	3,641	10,471.6	0.79%	10,471.6	0.79%	6,552.3	0.50%
e348	Direct Access: ARCHER RAP	177	4,912.3	0.37%	4,912.3	0.37%	3,670.9	0.28%
e491	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	623.6	0.05%
e492	Direct Access: ARCHER RAP	554	3,581.6	0.27%	3,595.4	0.27%	4,129.5	0.31%
e504	Direct Access: ARCHER RAP	157	869.1	0.07%	869.1	0.07%	811.1	0.06%
e505	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	417.5	0.03%
e542	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,166.5	0.09%
e543	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,520.7	0.12%
e545	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	584.4	0.04%
e546	Direct Access: ARCHER RAP	120	2,464.9	0.19%	2,464.9	0.19%	1,516.4	0.12%
e547	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	1,548.6	0.12%
e548	Direct Access: ARCHER RAP	201	1,523.2	0.12%	1,523.2	0.12%	1,439.2	0.11%
e549	Direct Access: ARCHER RAP	35	885.2	0.07%	885.2	0.07%	1,020.1	0.08%
e550	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	411.0	0.03%
e522	Instant Access	0	0.0	0.00%	0.0	0.00%	13.3	0.00%
e525	Instant Access	0	0.0	0.00%	0.0	0.00%	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	0	0.0	0.00%	0.0	0.00%	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	33	170.7	0.01%	170.7	0.01%	202.1	0.02%
e544	Instant Access	140	2,618.9	0.20%	2,618.9	0.20%	150.8	0.01%
e495	Training	68	74.3	0.01%	74.3	0.01%	2,286.9	0.17%
e508	Training	132	867.1	0.07%	867.1	0.07%	2,062.2	0.16%

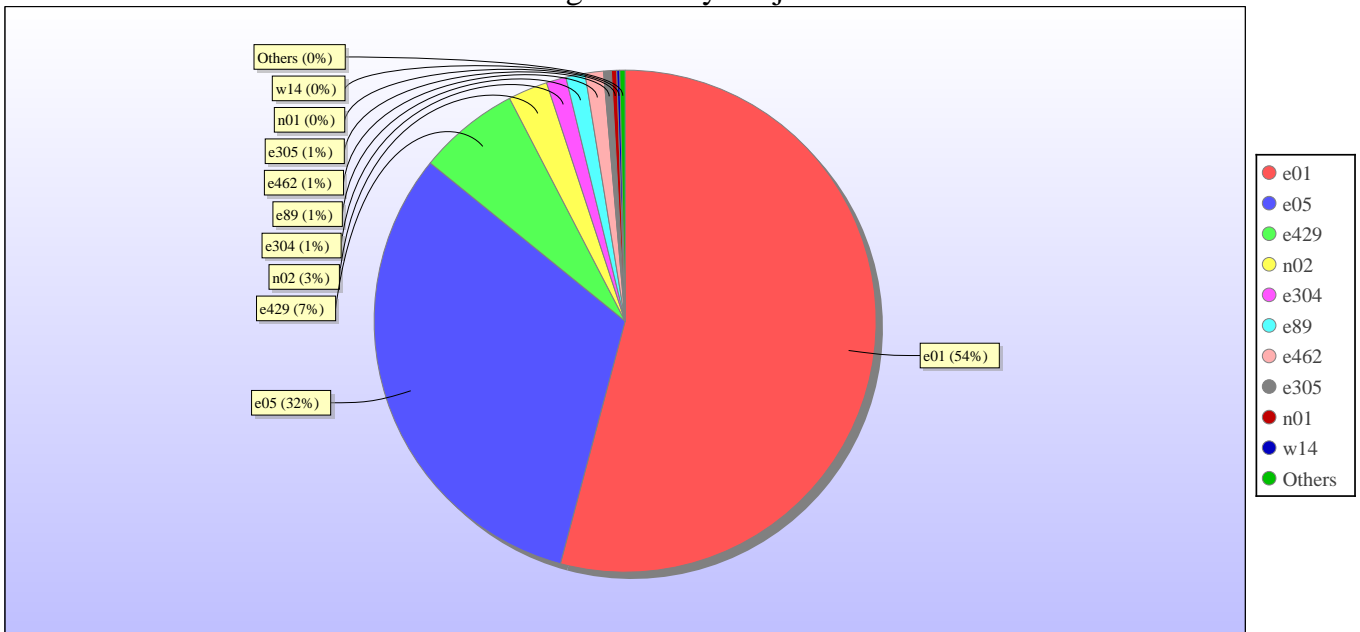
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e521	Training	45	182.4	0.01%	182.4	0.01%	1,764.3	0.13%
e538	Training	1,967	5,044.0	0.38%	5,044.4	0.38%	2,896.7	0.22%
<b>EPSRC Total</b>		<b>77,765</b>	<b>782,790.1</b>	<b>59.40%</b>	<b>790,982.1</b>	<b>60.02%</b>	<b>870,883.3</b>	<b>66.09%</b>
n01	Consortia	1,815	58,867.0	4.47%	57,759.9	4.38%	50,958.9	3.87%
n02	Consortia	14,286	121,844.8	9.25%	120,440.3	9.14%	161,369.9	12.25%
n03	Consortia	3,792	58,142.1	4.41%	58,142.7	4.41%	65,652.1	4.98%
<b>NERC Total</b>		<b>19,893</b>	<b>238,853.9</b>	<b>18.13%</b>	<b>236,342.9</b>	<b>17.94%</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	270	2,964.8	0.22%	2,964.8	0.22%	820.2	0.06%
pr1u1358	DECI: EXEC	147	4,724.4	0.36%	4,724.4	0.36%	4,141.8	0.31%
pr1u1360	DECI: EXEC	4	276.6	0.02%	276.6	0.02%	3,491.4	0.26%
pr1u1362	DECI: EXEC	159	2,009.9	0.15%	2,009.9	0.15%	824.5	0.06%
pr1u1363	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,691.4	0.20%
pr1u1451	DECI: EXEC	42	796.0	0.06%	796.0	0.06%	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	42	607.5	0.05%	607.5	0.05%	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%	210.1	0.02%
pr1utd01	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	195.4	0.01%
pr1u1304	DECI: HOME	483	5,225.4	0.40%	5,225.4	0.40%	4,495.0	0.34%
pr1u1311	DECI: HOME	0	0.0	0.00%	0.0	0.00%	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	71	6,694.2	0.51%	6,694.2	0.51%	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>1,218</b>	<b>23,298.9</b>	<b>1.77%</b>	<b>23,298.9</b>	<b>1.77%</b>	<b>57,284.9</b>	<b>4.35%</b>
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	26.5	0.00%
ecse0706	eCSE	0	0.0	0.00%	0.0	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	0	0.0	0.00%	0.0	0.00%	46.4	0.00%
ecse0804	eCSE	119	310.0	0.02%	310.0	0.02%	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	2	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	0	0.0	0.00%	0.0	0.00%	47.1	0.00%
ecse0904	eCSE	68	0.2	0.00%	0.2	0.00%	42.6	0.00%
ecse0910	eCSE	7	0.0	0.00%	0.0	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>196</b>	<b>310.2</b>	<b>0.02%</b>	<b>310.2</b>	<b>0.02%</b>	<b>745.3</b>	<b>0.06%</b>
d43	ECDF	93	8,751.0	0.66%	8,751.0	0.66%	5,945.2	0.45%
d25	Research	14	108.2	0.01%	108.2	0.01%	849.3	0.06%
d35	Research	217	33.7	0.00%	33.7	0.00%	424.7	0.03%
d56	Research	551	6,510.6	0.49%	6,510.6	0.49%	5,053.2	0.38%
d60	Research	0	0.0	0.00%	0.0	0.00%	204.0	0.02%
d67	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d71	Research	0	0.0	0.00%	0.0	0.00%	578.0	0.04%
d72	Research	10	0.2	0.00%	0.2	0.00%	169.9	0.01%
d87	Research	4	0.0	0.00%	0.1	0.00%	1,129.4	0.09%
d88	Research	87	14.3	0.00%	14.4	0.00%	13.4	0.00%
d96	Research	4	1.4	0.00%	1.4	0.00%	1,698.6	0.13%
d100	Research	0	0.0	0.00%	0.0	0.00%	363.8	0.03%

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d101	Research	84	202.2	0.02%	202.4	0.02%	424.7	0.03%
d107	Research	0	0.0	0.00%	0.0	0.00%	424.7	0.03%
d114	Research	618	11,372.1	0.86%	11,373.3	0.86%	10,040.2	0.76%
d120	Research	0	0.0	0.00%	0.0	0.00%	302.4	0.02%
d121	Research	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
d137	Research	152	6,675.0	0.51%	6,675.1	0.51%	2,547.9	0.19%
d141	Research	419	722.1	0.05%	722.3	0.05%	254.8	0.02%
d142	Research	232	17,533.9	1.33%	17,533.9	1.33%	5,895.4	0.45%
d143	Research	23	1,567.4	0.12%	1,567.4	0.12%	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	440	972.2	0.07%	972.2	0.07%	4,246.6	0.32%
d150	Research	54	3,515.5	0.27%	3,515.5	0.27%	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	0	0.0	0.00%	0.0	0.00%	108.4	0.01%
d153	Industrial	131	269.9	0.02%	270.1	0.02%	808.2	0.06%
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	0	0.0	0.00%	0.0	0.00%	168.4	0.01%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	2.7	0.00%
x08	Industrial	100	298.2	0.02%	298.2	0.02%	1,358.9	0.10%
d74	Training	0	0.0	0.00%	0.0	0.00%	55.2	0.00%
d122	Training	184	41.6	0.00%	41.6	0.00%	431.8	0.03%
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	171	107.5	0.01%	107.5	0.01%	851.6	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	202.1	0.02%
w12	Service	31	107.0	0.01%	107.0	0.01%	505.5	0.04%
w13	Service	41	387.0	0.03%	387.0	0.03%	505.5	0.04%
w14	Service	30	2,251.7	0.17%	2,268.1	0.17%	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	37	11.3	0.00%	13.8	0.00%	169.9	0.01%
y07	Service	11	0.1	0.00%	0.1	0.00%	84.9	0.01%
z02	Service	1	0.0	0.00%	0.0	0.00%	424.7	0.03%
z17	Service	28	218.7	0.02%	218.7	0.02%	336.9	0.03%
z22	Service	0	0.0	0.00%	0.0	0.00%	5.0	0.00%
z99	Service	35	0.6	0.00%	0.6	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	23	131.0	0.01%	131.0	0.01%	307.4	0.02%
DirectorsTime Total		3,825	61,804.5	4.69%	61,825.3	4.69%	70,483.3	5.35%
y14	Training	2,516	560.8	0.04%	374.0	0.03%	594.5	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	78.3	0.01%
z01	Service	21	0.2	0.00%	0.2	0.00%	42.5	0.00%
z19	Service	473	2,269.7	0.17%	2,269.7	0.17%	5,520.5	0.42%
CSE Total		3,010	2,830.6	0.21%	2,643.9	0.20%	6,235.8	0.47%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	1,606.5	0.12%
Industrial Total		0	0.0	0.00%	0.0	0.00%	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		105,907	1,109,888.2	84.22%	1,115,403.3	84.64%	1,285,317.0	97.54%

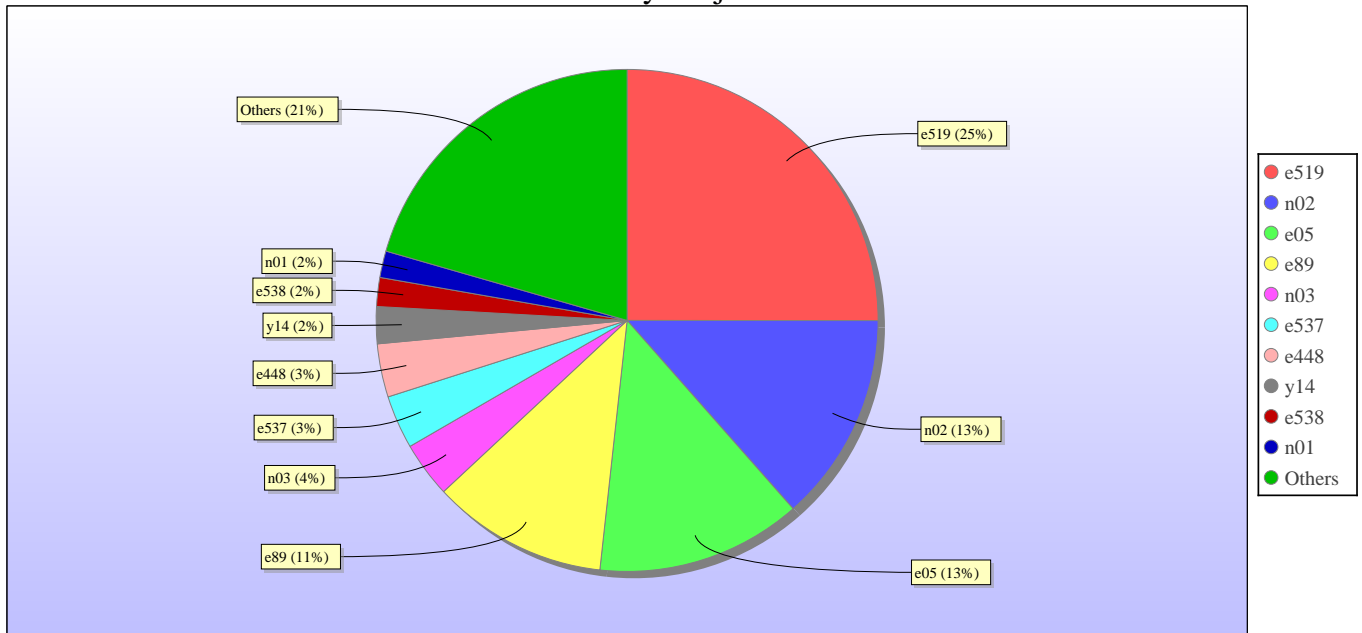
Use by Project



Uncharged Use by Project



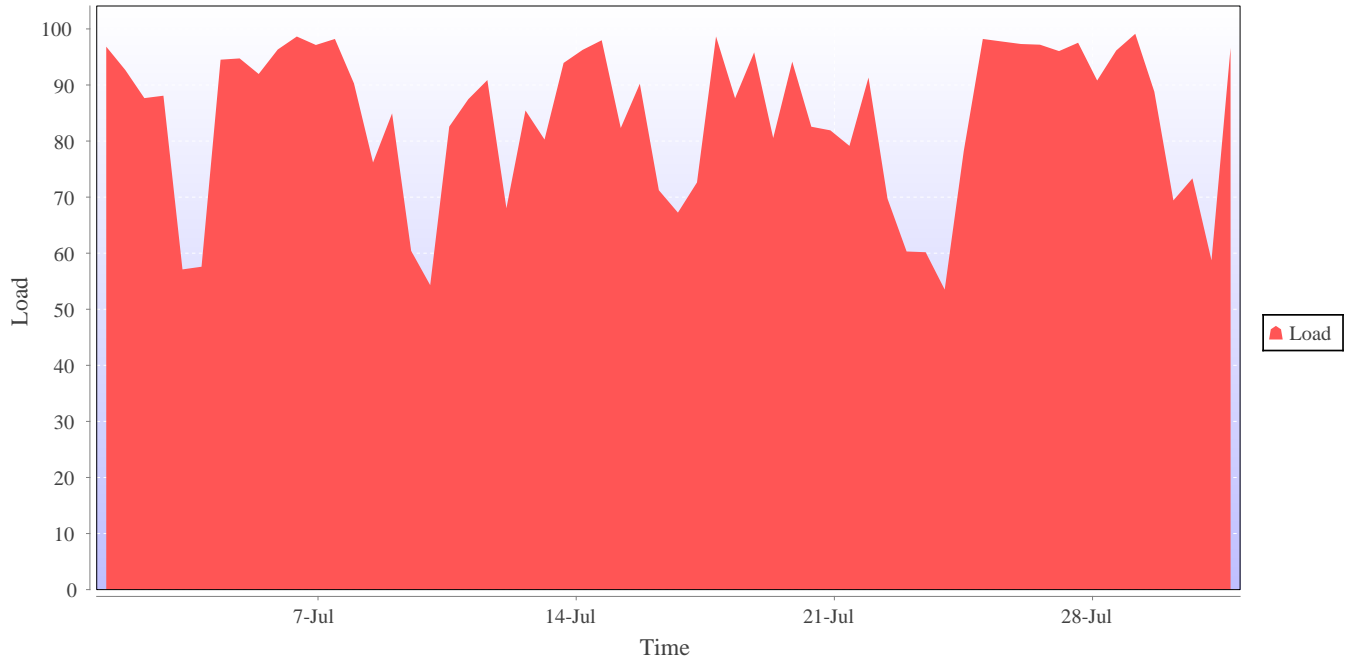
### Jobs by Project



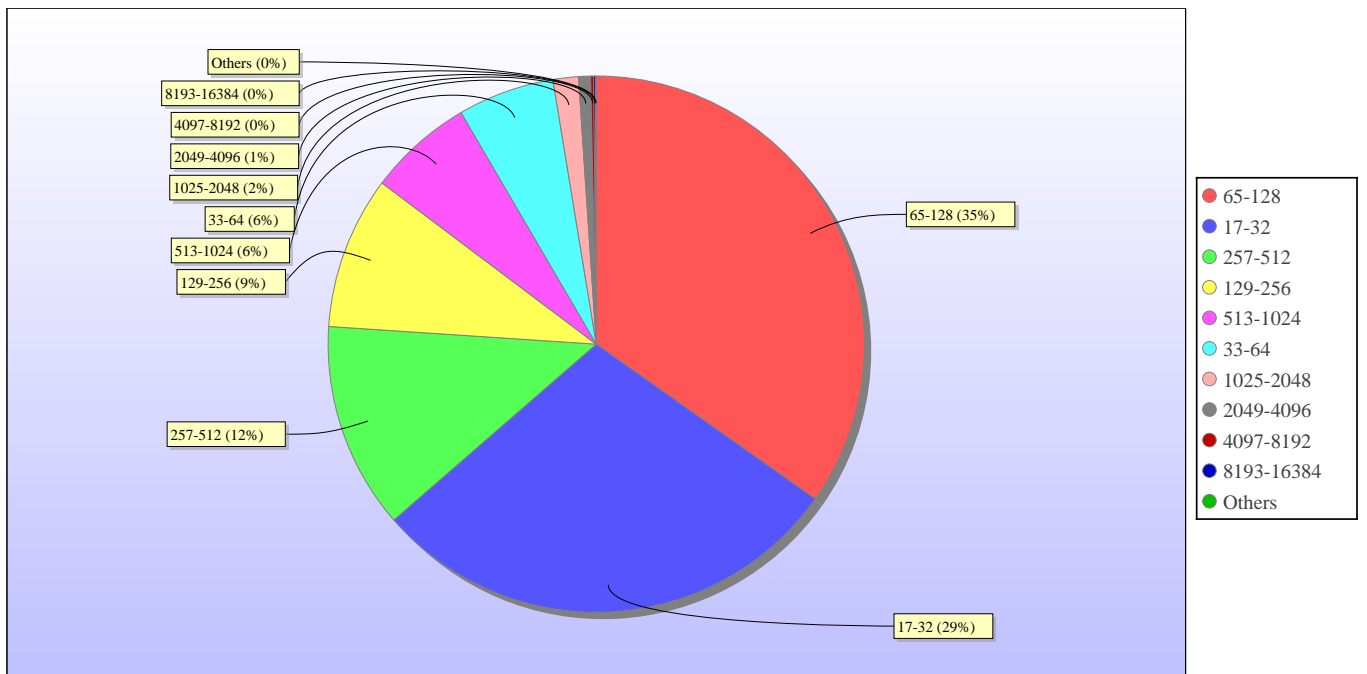
### kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	11,854.432	30,523
33-64	19,179.235	6,165
65-128	81,059.945	36,844
129-256	145,770.037	9,757
257-512	198,771.799	13,168
513-1024	172,584.5	6,695
1025-2048	145,915.424	1,620
2049-4096	122,803.229	768
4097-8192	84,009.674	190
8193-16384	40,328.872	124
16385-32768	78,561.146	39
32769-65536	63.488	1
65537-131072	157.696	1

## Load plots

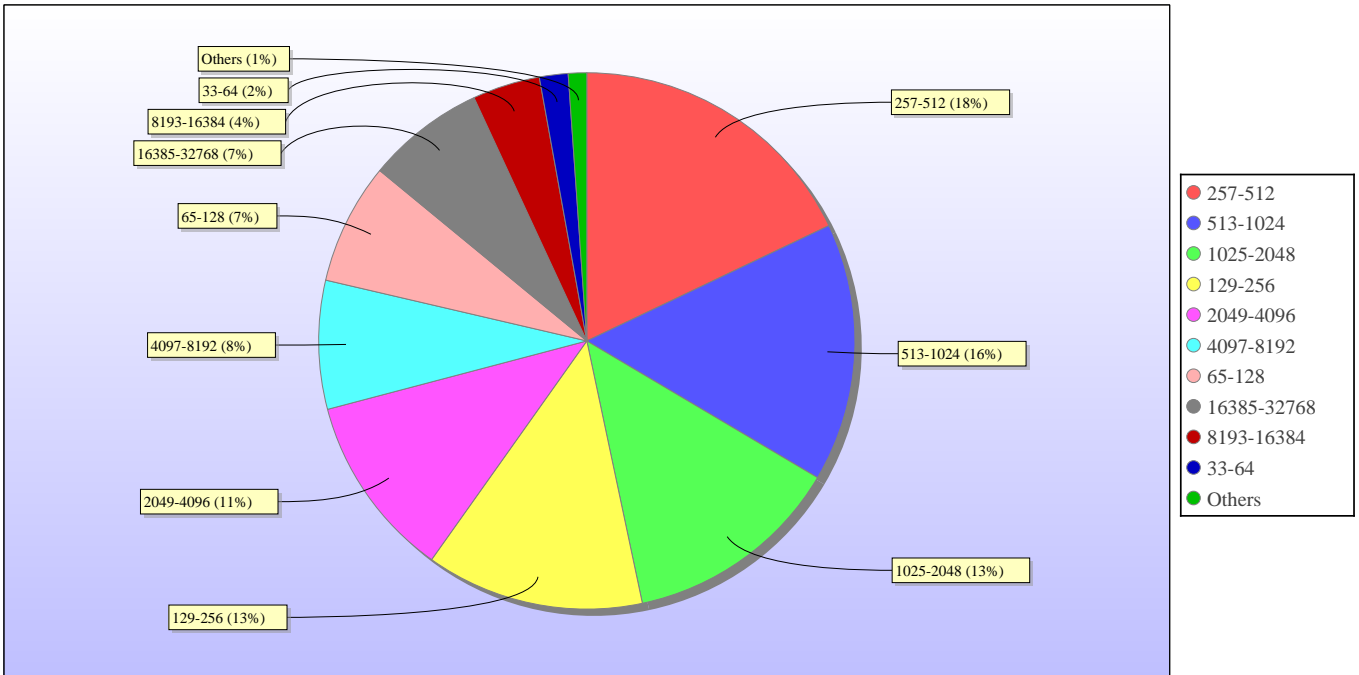


Percentage load on machine

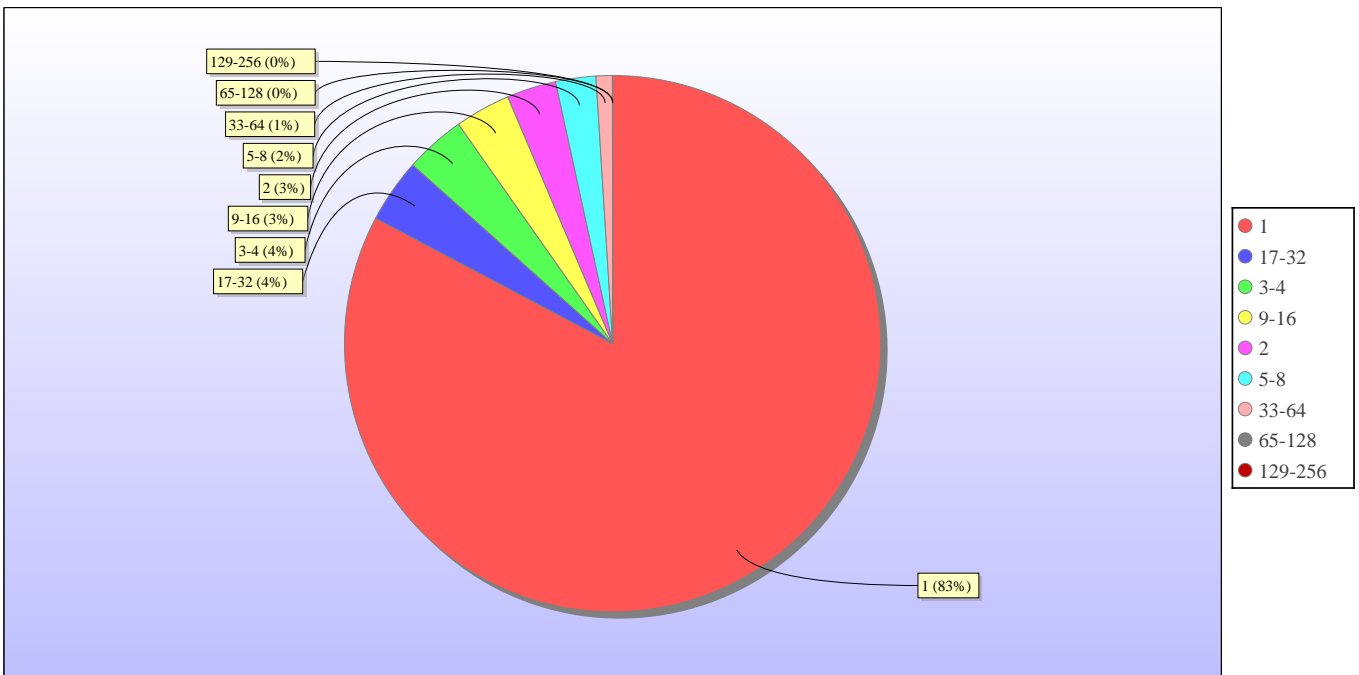


Jobs by Size

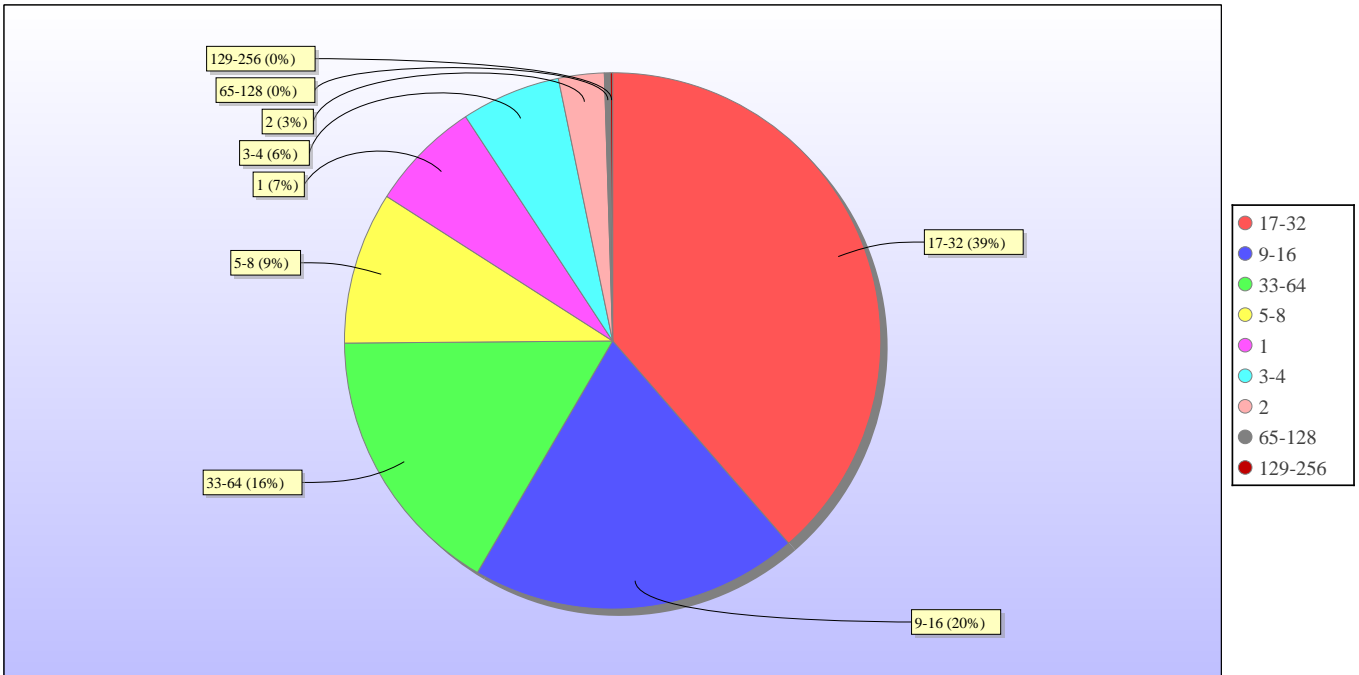




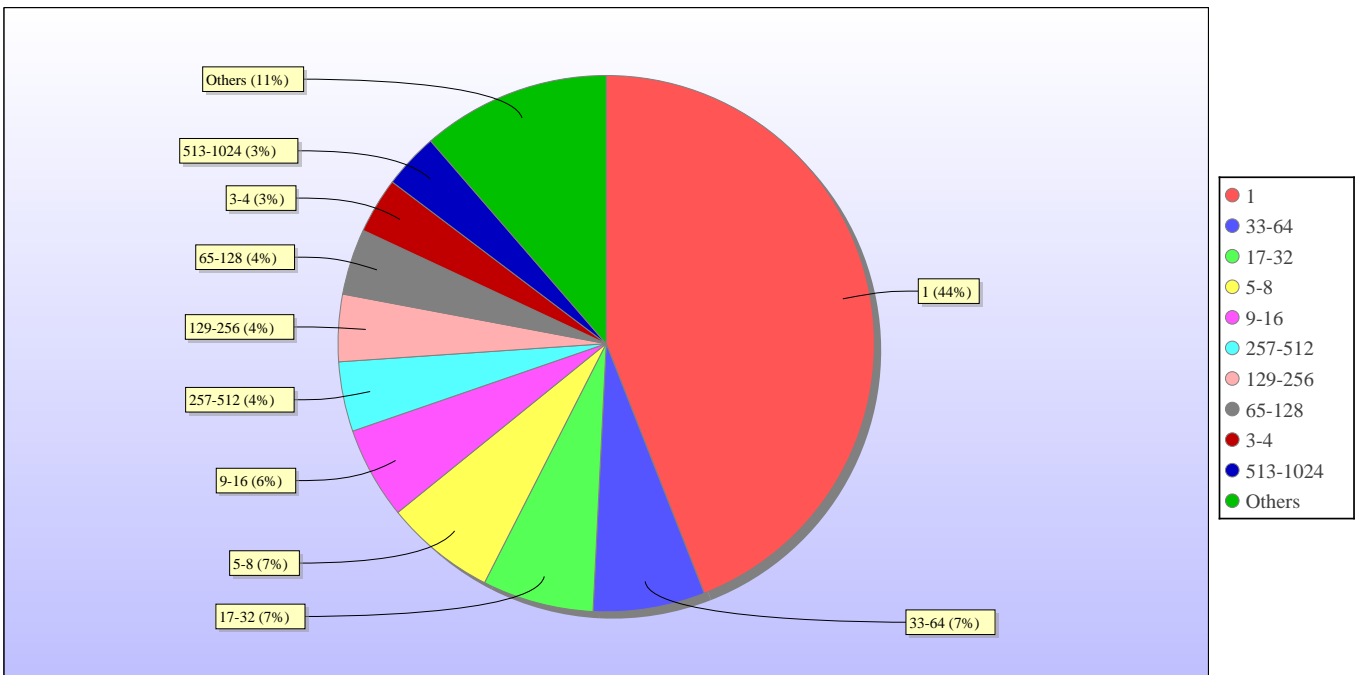
kAUs used by Size



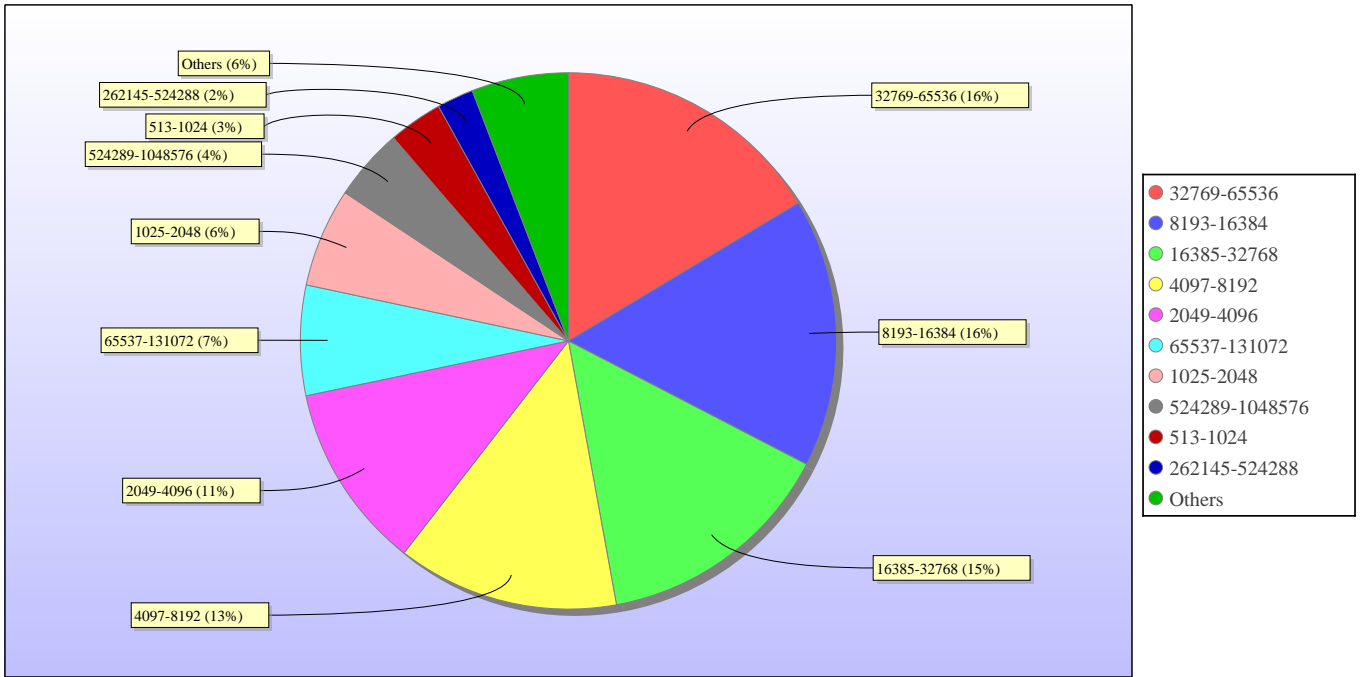
Jobs grouped by wall-clock-hours



kAUs used grouped by wall-clock-hours



Jobs grouped by core-hours

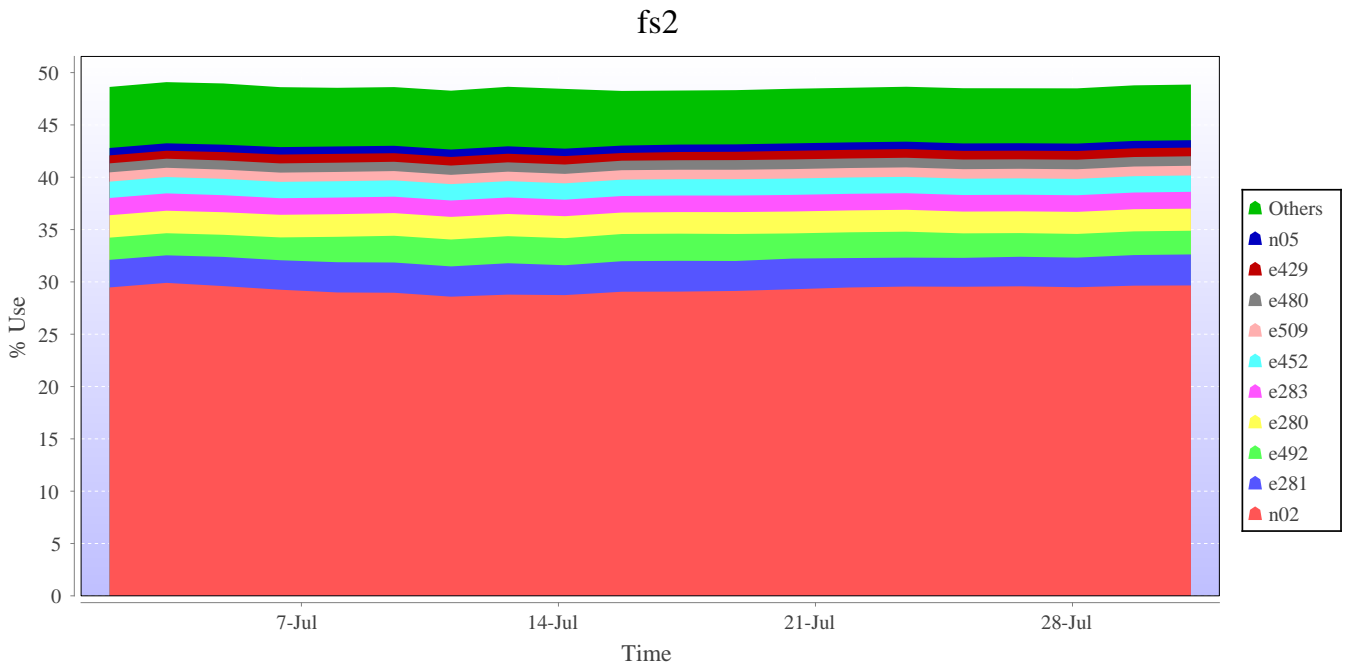


kAUs used grouped by core-hours

## Disk usage

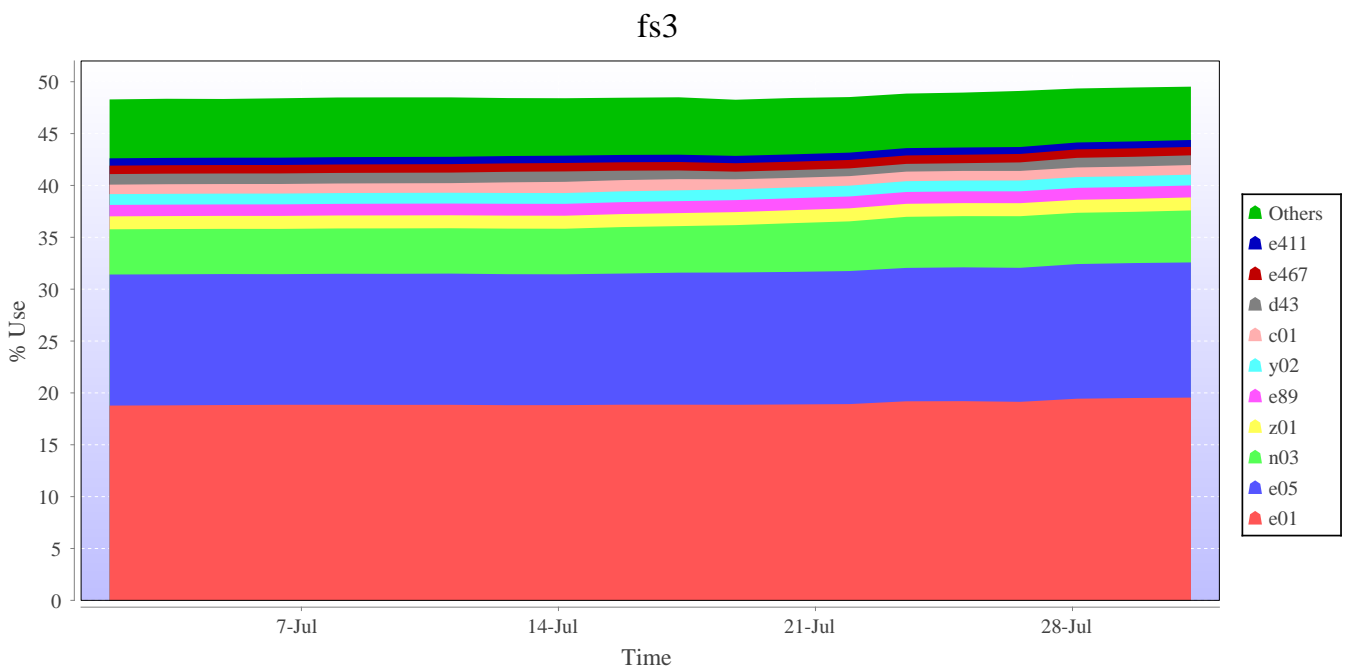
### Disk usage for work ( fs2 )

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.



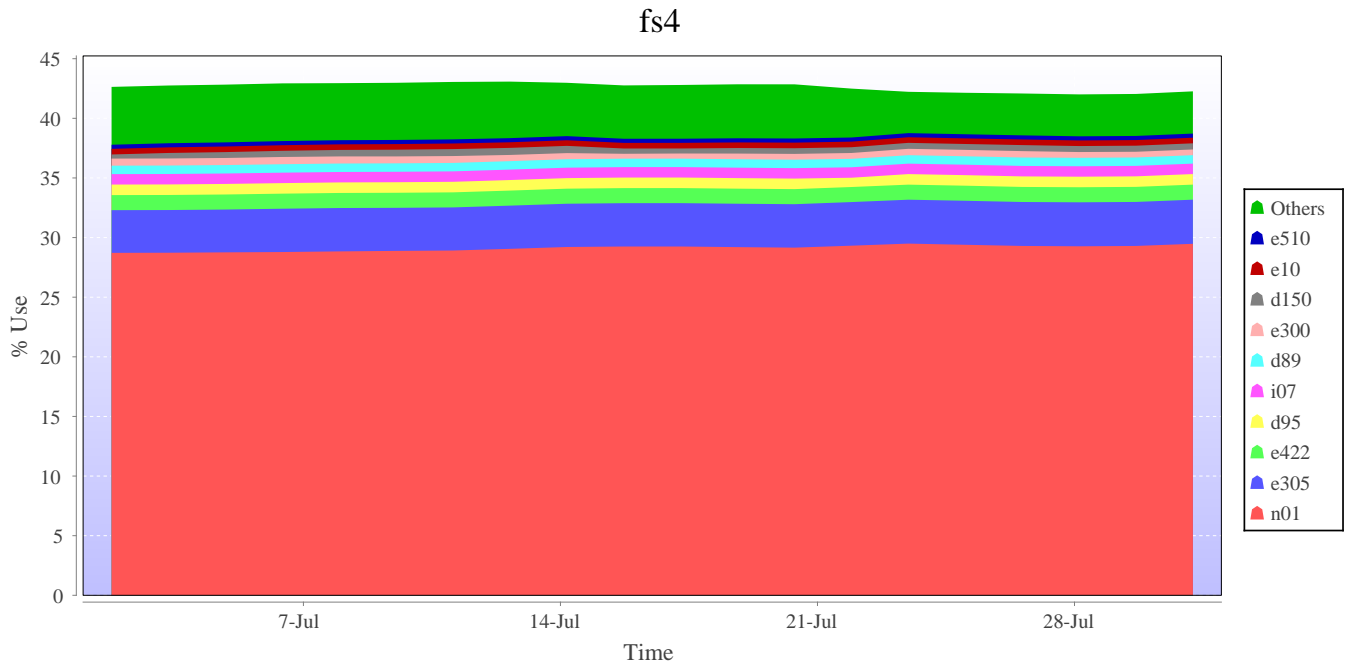
### Disk usage for work ( fs3 )

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.



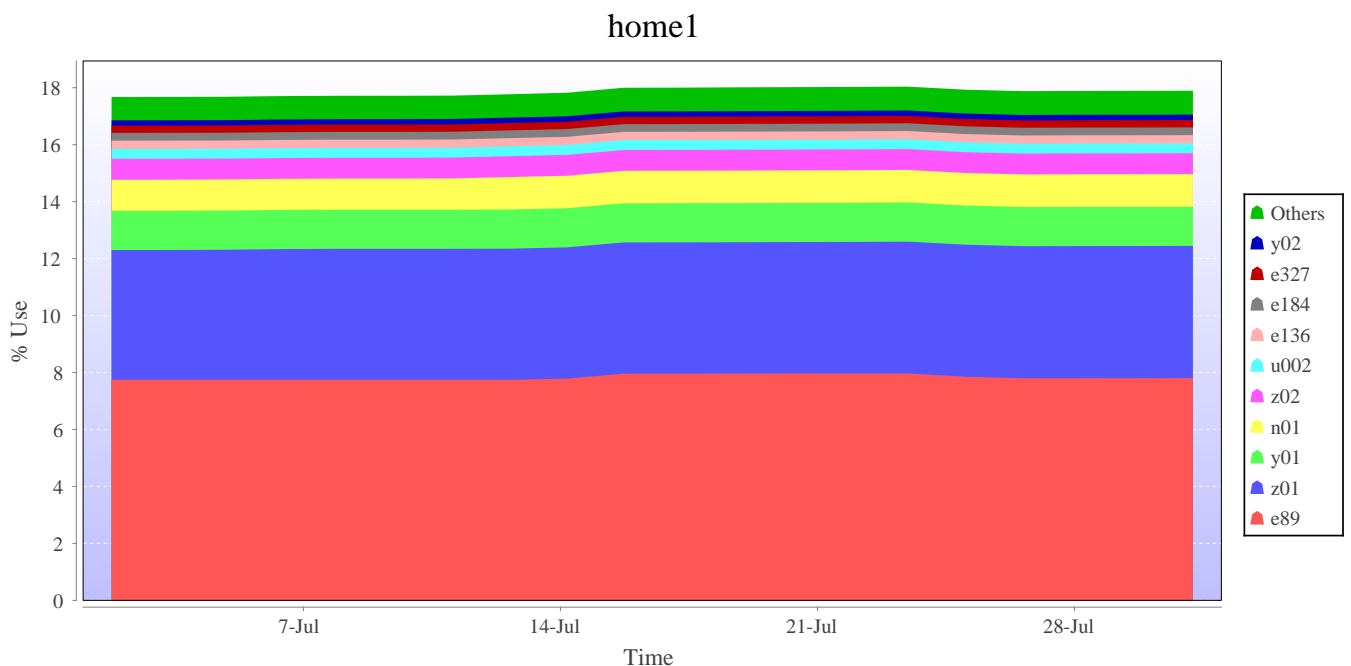
## Disk usage for work ( fs4 )

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.



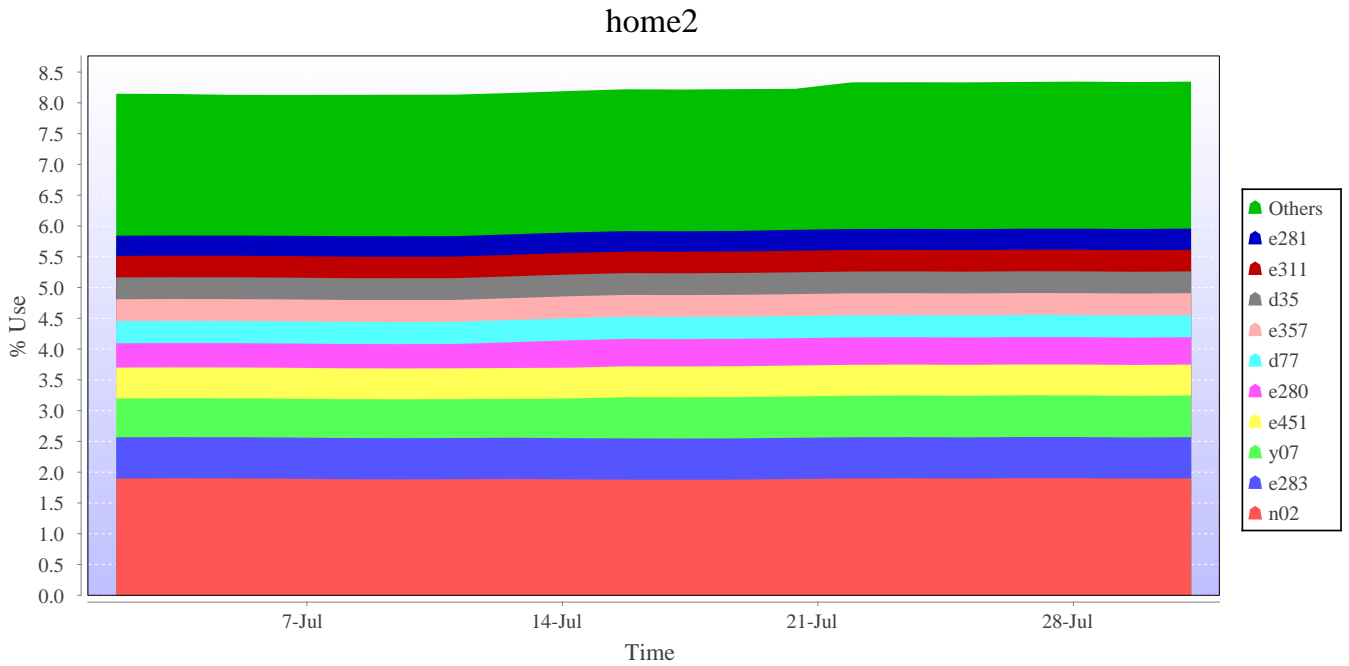
## Disk usage for home ( home1 )

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.



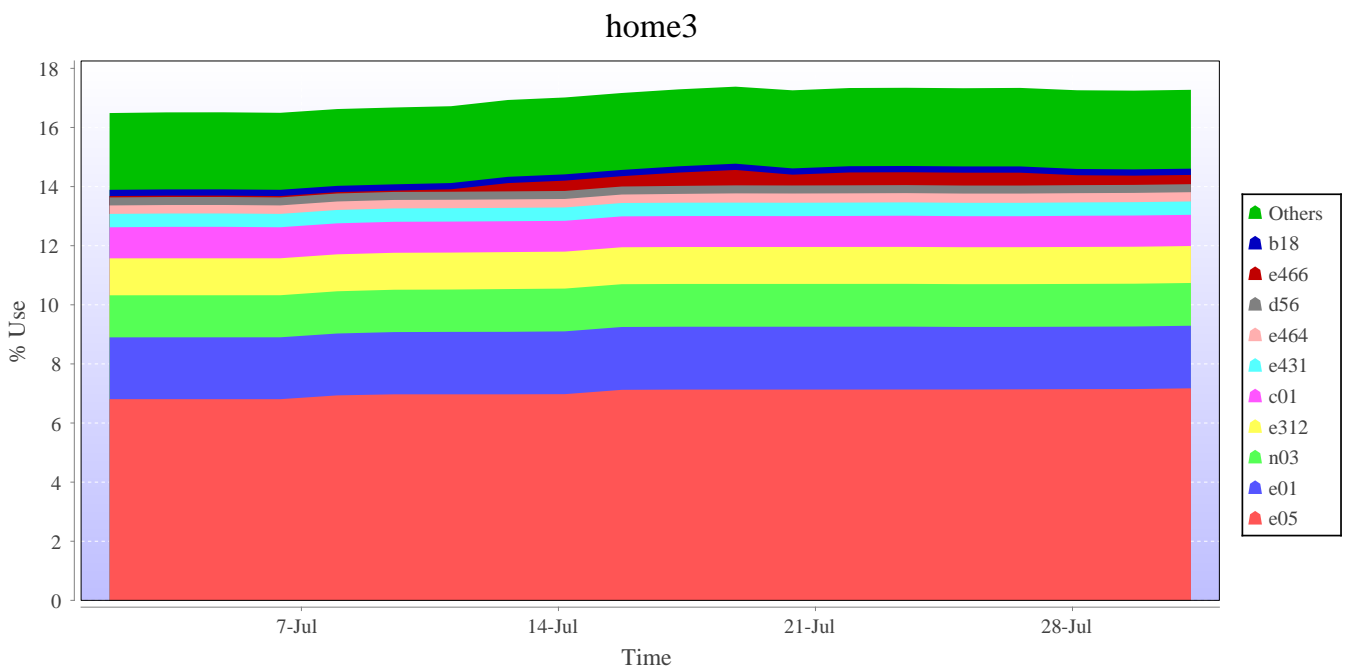
## Disk usage for home ( home2 )

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.



## 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.

