

# Monthly Reporting

## Report from 01 July 2022 to 31 July 2022

### Report for Resource Pool Archer2 on archer2

A total of 4,350,912 CUs 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.

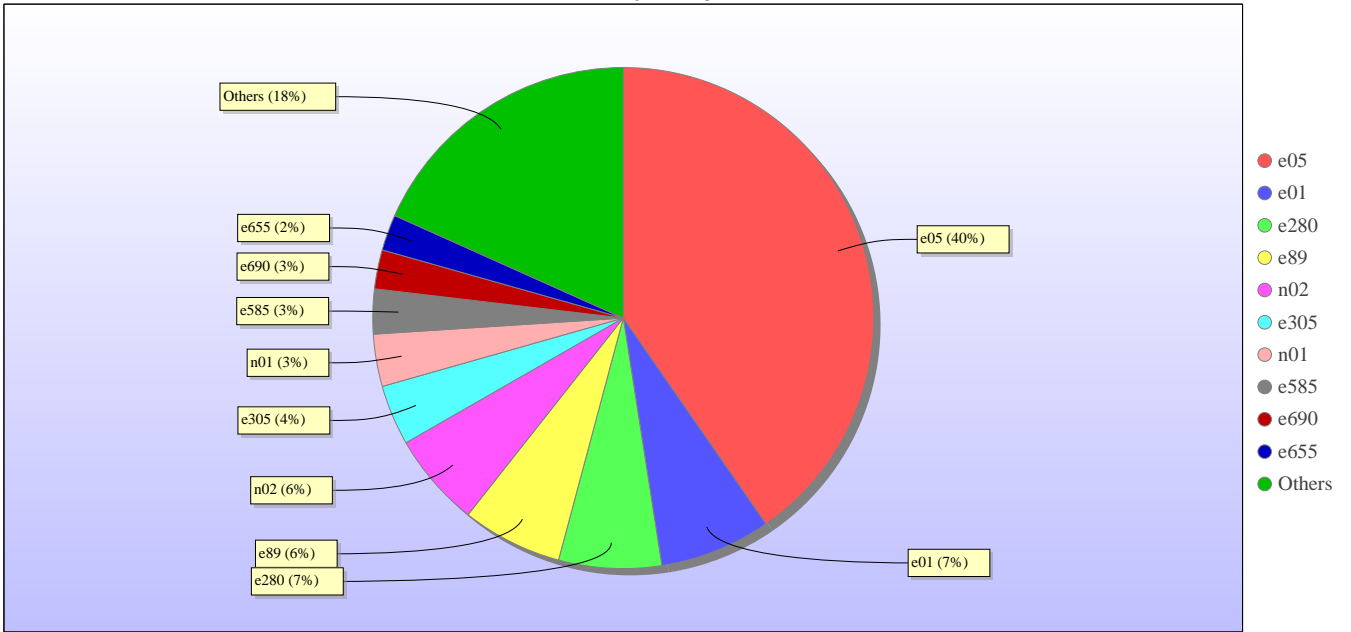
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e756	Leadership Awards	0	0.0	0.00%	0.0	0.00%	10.7	0.00%
e683	Pioneer Projects	78	54.9	0.00%	54.9	0.00%	14,014.2	0.32%
e685	Pioneer Projects	430	6,429.4	0.15%	14,590.5	0.34%	20,718.1	0.48%
e686	Pioneer Projects	293	2,163.0	0.05%	2,269.8	0.05%	18,528.4	0.43%
e687	Pioneer Projects	198	5,309.8	0.12%	5,391.3	0.12%	16,844.0	0.39%
e688	Pioneer Projects	86	9,056.5	0.21%	9,471.5	0.22%	22,318.3	0.51%
e689	Pioneer Projects	29	24,276.4	0.56%	29,059.5	0.67%	27,118.9	0.62%
e690	Pioneer Projects	540	58,269.3	1.34%	98,289.4	2.26%	25,266.0	0.58%
e691	Pioneer Projects	14	5,102.5	0.12%	5,102.5	0.12%	25,759.2	0.59%
e692	Pioneer Projects	14	6,913.2	0.16%	7,362.8	0.17%	19,444.7	0.45%
e693	Pioneer Projects	3	2,700.7	0.06%	2,700.7	0.06%	24,861.8	0.57%
c01	Class1a	1,069	9,396.4	0.22%	9,396.4	0.22%	24,829.0	0.57%
e348	Class1a	110	568.5	0.01%	568.5	0.01%	9,163.1	0.21%
e572	Class1a	5	4.5	0.00%	4.5	0.00%	2,106.5	0.05%
e575	Class1a	174	3,880.1	0.09%	3,896.4	0.09%	3,370.3	0.08%
e607	Class1a	836	3,761.2	0.09%	19,292.5	0.44%	9,962.3	0.23%
e609	Class1a	705	1,698.3	0.04%	10,047.5	0.23%	3,274.6	0.08%
e642	Class1a	0	0.0	0.00%	0.0	0.00%	4,844.5	0.11%
e643	Class1a	220	2,354.2	0.05%	2,354.2	0.05%	3,029.2	0.07%
e645	Class1a	124	2,903.5	0.07%	3,004.2	0.07%	2,691.1	0.06%
e647	Class1a	439	7,055.2	0.16%	7,491.9	0.17%	2,663.2	0.06%
e649	Class1a	1	0.5	0.00%	0.5	0.00%	1,444.1	0.03%
e655	Class1a	461	2,905.1	0.07%	90,677.6	2.08%	3,164.9	0.07%
e663	Class1a	1,292	5,727.2	0.13%	5,742.4	0.13%	3,352.3	0.08%
e664	Class1a	0	0.0	0.00%	0.0	0.00%	894.0	0.02%
e667	Class1a	205	248.1	0.01%	248.1	0.01%	2,204.1	0.05%
e684	Class1a	19	30.9	0.00%	30.9	0.00%	2,094.5	0.05%
e694	Class1a	105	72.3	0.00%	84.3	0.00%	2,832.7	0.07%
e696	Class1a	22	409.4	0.01%	409.4	0.01%	309.2	0.01%
e697	Class1a	124	331.5	0.01%	53,681.2	1.23%	8,772.9	0.20%
e700	Class1a	93	1,055.4	0.02%	1,350.9	0.03%	4,446.8	0.10%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e701	Class1a	0	0.0	0.00%	0.0	0.00%	1,881.4	0.04%
e702	Class1a	43	2,637.2	0.06%	3,143.1	0.07%	1,006.3	0.02%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	848.9	0.02%
e707	Class1a	112	92.1	0.00%	92.1	0.00%	11,945.1	0.27%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	4,044.4	0.09%
e710	Class1a	1	0.0	0.00%	0.0	0.00%	2,022.2	0.05%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	16,844.0	0.39%
e720	Class1a	13,845	16,141.4	0.37%	16,732.8	0.38%	22,688.7	0.52%
e721	Class1a	0	0.0	0.00%	0.0	0.00%	2,236.1	0.05%
e723	Class1a	609	6,107.9	0.14%	6,128.6	0.14%	25,404.1	0.58%
e724	Class1a	0	0.0	0.00%	0.0	0.00%	11,680.5	0.27%
e728	Class1a	67	138.6	0.00%	138.6	0.00%	2,393.3	0.06%
e738	Class1a	55	29.2	0.00%	29.2	0.00%	7,723.0	0.18%
e751	Class1a	0	0.0	0.00%	0.0	0.00%	5,049.8	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	3,557.4	0.08%
e6337	Class1a	41	5,975.3	0.14%	6,375.8	0.15%	2,794.3	0.06%
ec110	Class1a	0	0.0	0.00%	0.0	0.00%	1,011.1	0.02%
e01	Consortia	2,378	199,077.5	4.58%	280,078.2	6.44%	225,740.1	5.19%
e05	Consortia	42,872	691,930.6	15.90%	1,573,753.5	36.17%	714,843.9	16.43%
e89	Consortia	11,657	221,477.0	5.09%	252,582.7	5.81%	338,610.1	7.78%
e280	Consortia	4,985	84,819.3	1.95%	258,426.8	5.94%	150,493.7	3.46%
e281	Consortia	1,785	76,526.5	1.76%	80,761.1	1.86%	75,247.3	1.73%
e283	Consortia	2,124	32,101.3	0.74%	35,435.1	0.81%	37,623.6	0.86%
e305	Consortia	1,605	119,248.9	2.74%	151,762.6	3.49%	112,870.0	2.59%
e585	Consortia	627	17,857.2	0.41%	112,701.9	2.59%	112,870.0	2.59%
e718	Pump Priming	1	0.0	0.00%	0.0	0.00%	64.5	0.00%
e727	Pump Priming	48	843.6	0.02%	843.6	0.02%	3,287.0	0.08%
e741	Pump Priming	0	0.0	0.00%	0.0	0.00%	39.8	0.00%
e749	Pump Priming	154	444.9	0.01%	444.9	0.01%	578.8	0.01%
e750	Pump Priming	0	0.0	0.00%	0.0	0.00%	567.2	0.01%
e753	Pump Priming	0	0.0	0.00%	0.0	0.00%	677.6	0.02%
e755	Pump Priming	39	26.7	0.00%	26.7	0.00%	659.4	0.02%
ta026	Training	0	0.0	0.00%	0.0	0.00%	63.5	0.00%
ta027	Training	0	0.0	0.00%	0.0	0.00%	63.5	0.00%
ta037	Training	0	0.0	0.00%	0.0	0.00%	63.6	0.00%
ta038	Training	2	0.1	0.00%	0.1	0.00%	63.6	0.00%
ta052	Training	0	0.0	0.00%	0.0	0.00%	511.4	0.01%
e507	Access to HPC	4	2,304.1	0.05%	2,304.1	0.05%	0.0	0.00%
e632	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,669.0	0.08%
e673	Access to HPC	124	238.4	0.01%	40,086.1	0.92%	2,473.2	0.06%
e674	Access to HPC	40	348.7	0.01%	348.7	0.01%	3,879.7	0.09%
e675	Access to HPC	3	2,160.2	0.05%	2,160.2	0.05%	0.0	0.00%
e676	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,872.8	0.07%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,316.7	0.17%
e705	Access to HPC	69	125.7	0.00%	125.7	0.00%	3,744.6	0.09%
e730	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,234.1	0.07%
e731	Access to HPC	2	19.9	0.00%	19.9	0.00%	9,171.2	0.21%
e732	Access to HPC	67	869.2	0.02%	878.9	0.02%	5,053.2	0.12%
e733	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,204.3	0.10%
e734	Access to HPC	137	4,048.6	0.09%	4,048.6	0.09%	7,691.8	0.18%
e735	Access to HPC	0	0.0	0.00%	0.0	0.00%	10,478.3	0.24%
e736	Access to HPC	0	0.0	0.00%	0.0	0.00%	12,127.7	0.28%
e742	Access to HPC	7	900.5	0.02%	900.5	0.02%	1,179.6	0.03%
e743	Access to HPC	103	4,861.1	0.11%	4,861.1	0.11%	8,324.7	0.19%
e744	Access to HPC	60	12,109.5	0.28%	13,085.5	0.30%	3,073.7	0.07%
e745	Access to HPC	25	12,371.2	0.28%	25,798.6	0.59%	6,511.5	0.15%
e746	Access to HPC	43	26,404.2	0.61%	26,566.7	0.61%	15,348.5	0.35%
e747	Access to HPC	5	0.7	0.00%	0.7	0.00%	19,440.8	0.45%
e748	Access to HPC	111	43,062.0	0.99%	45,758.7	1.05%	16,851.6	0.39%
<b>EPSRC Total</b>		<b>91,539</b>	<b>1,747,977.5</b>	<b>40.17%</b>	<b>3,328,975.5</b>	<b>76.51%</b>	<b>2,355,050.1</b>	<b>54.13%</b>
n01	Consortia	3,478	100,497.3	2.31%	131,622.1	3.03%	149,989.0	3.45%
n02	Consortia	31,295	120,347.5	2.77%	236,775.7	5.44%	534,813.7	12.29%
n03	Consortia	20,827	65,722.0	1.51%	67,367.3	1.55%	166,465.8	3.83%

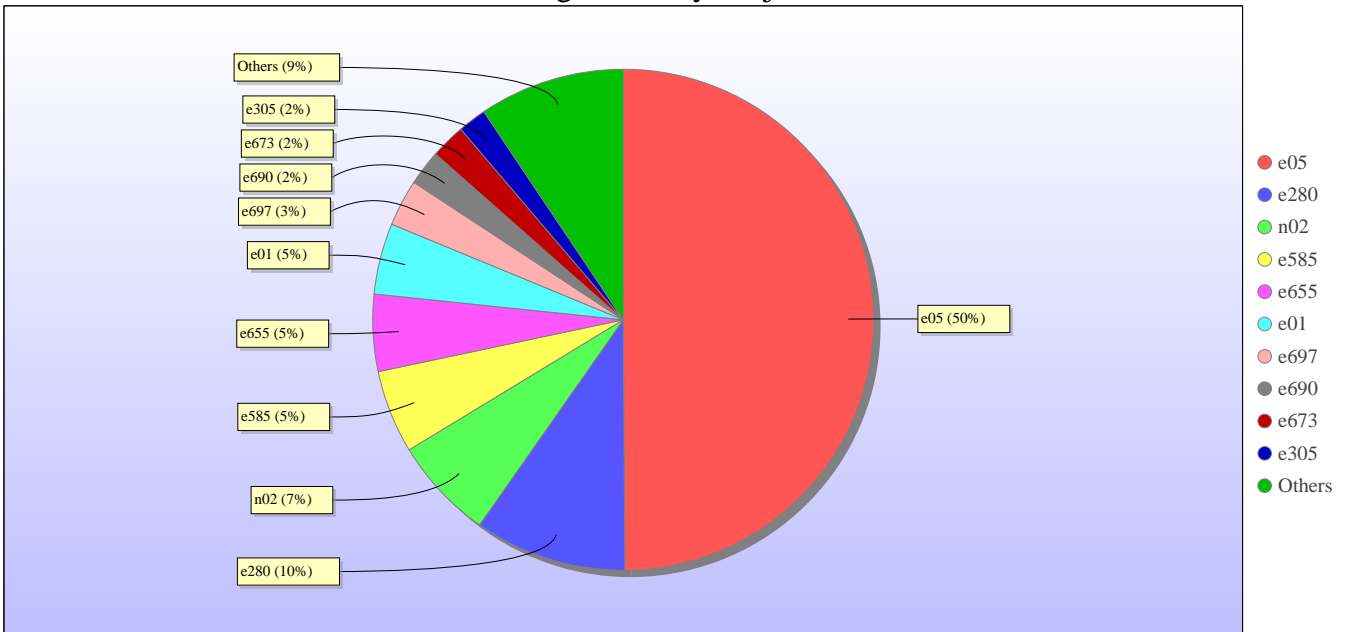
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
<b>NERC Total</b>		<b>55,600</b>	<b>286,566.8</b>	<b>6.59%</b>	<b>435,765.0</b>	<b>10.02%</b>	<b>851,268.5</b>	<b>19.57%</b>
b19	Class1a	41	197.2	0.00%	197.2	0.00%	1,982.7	0.05%
e621	Class1a	251	30,679.6	0.71%	31,335.1	0.72%	1,972.9	0.05%
<b>BBSRC Total</b>		<b>292</b>	<b>30,876.9</b>	<b>0.71%</b>	<b>31,532.3</b>	<b>0.72%</b>	<b>3,955.6</b>	<b>0.09%</b>
pr1u1555	DECI: EXEC	11	5.8	0.00%	5.8	0.00%	637.4	0.01%
pr1u1654	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	675.1	0.02%
pr1u1657	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	532.2	0.01%
pr1u1751	DECI: EXEC	1,272	1,384.0	0.03%	1,385.3	0.03%	1,621.7	0.04%
pr1u1752	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,927.1	0.04%
pr1u1753	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	3,936.2	0.09%
pr1u1754	DECI: EXEC	47	2,503.0	0.06%	2,563.4	0.06%	2,649.8	0.06%
pr1u1755	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,734.4	0.04%
pr1u1756	DECI: EXEC	579	7,550.1	0.17%	7,602.2	0.17%	6,794.7	0.16%
pr1u1757	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	916.8	0.02%
pr1u1758	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	759.9	0.02%
pr1u1759	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,540.7	0.04%
pr1u1760	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	578.1	0.01%
pr1u1702	DECI: HOME	95	490.6	0.01%	509.1	0.01%	1,702.7	0.04%
pr1u1707	DECI: HOME	0	0.0	0.00%	0.0	0.00%	1,475.4	0.03%
pr1ush02	DECI: HOME	52	1,221.1	0.03%	1,221.1	0.03%	3,452.3	0.08%
<b>PRACE Total</b>		<b>2,056</b>	<b>13,154.6</b>	<b>0.30%</b>	<b>13,286.8</b>	<b>0.31%</b>	<b>30,934.6</b>	<b>0.71%</b>
ecseaa11	eCSE	0	0.0	0.00%	0.0	0.00%	78.6	0.00%
ecseaa19	eCSE	0	0.0	0.00%	0.0	0.00%	102.9	0.00%
ecseaa26	eCSE	50	6.4	0.00%	6.4	0.00%	126.5	0.00%
ecseab02	eCSE	0	0.0	0.00%	0.0	0.00%	93.1	0.00%
ecseac02	eCSE	0	0.0	0.00%	0.0	0.00%	56.9	0.00%
ecseac04	eCSE	5	2.9	0.00%	2.9	0.00%	101.4	0.00%
ecseac05	eCSE	0	0.0	0.00%	0.0	0.00%	63.9	0.00%
ecseac06	eCSE	0	0.0	0.00%	0.0	0.00%	78.8	0.00%
ecseac12	eCSE	0	0.0	0.00%	0.0	0.00%	84.2	0.00%
ecseac14	eCSE	0	0.0	0.00%	0.0	0.00%	65.3	0.00%
ecseac15	eCSE	0	0.0	0.00%	0.0	0.00%	134.1	0.00%
ecsead01	eCSE	0	0.0	0.00%	0.0	0.00%	98.2	0.00%
ecsead02	eCSE	0	0.0	0.00%	0.0	0.00%	163.0	0.00%
ecsead03	eCSE	0	0.0	0.00%	0.0	0.00%	128.5	0.00%
ecsead05	eCSE	0	0.0	0.00%	0.0	0.00%	90.6	0.00%
ecsead06	eCSE	45	14.4	0.00%	14.4	0.00%	73.9	0.00%
ecsead08	eCSE	145	2.0	0.00%	6,412.9	0.15%	78.0	0.00%
ecseae03	eCSE	0	0.0	0.00%	0.0	0.00%	93.6	0.00%
ecseae04	eCSE	0	0.0	0.00%	0.0	0.00%	119.5	0.00%
ecseae08	eCSE	0	0.0	0.00%	0.0	0.00%	119.2	0.00%
ecseae09	eCSE	0	0.0	0.00%	0.0	0.00%	116.7	0.00%
ecseaf01	eCSE	54	14.8	0.00%	14.8	0.00%	104.4	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	52.7	0.00%
ecseaf03	eCSE	0	0.0	0.00%	0.0	0.00%	50.7	0.00%
ecseaf04	eCSE	0	0.0	0.00%	0.0	0.00%	65.1	0.00%
ecseaf06	eCSE	0	0.0	0.00%	0.0	0.00%	100.8	0.00%
<b>eCSE Total</b>		<b>299</b>	<b>40.6</b>	<b>0.00%</b>	<b>6,451.5</b>	<b>0.15%</b>	<b>2,440.5</b>	<b>0.06%</b>
d35	Research	163	33.0	0.00%	33.0	0.00%	92.8	0.00%
d56	Research	213	4,118.3	0.09%	4,118.8	0.09%	10,237.9	0.24%
d114	Research	1,330	14,302.0	0.33%	14,440.6	0.33%	5,226.3	0.12%
d137	Research	1	56.9	0.00%	56.9	0.00%	1,681.6	0.04%
d175	Research	2	2,664.0	0.06%	2,664.0	0.06%	1,405.7	0.03%
d179	Research	0	0.0	0.00%	0.0	0.00%	1,698.6	0.04%
dc129	Research	13,765	1,288.9	0.03%	1,289.2	0.03%	1,698.6	0.04%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	3,030.9	0.07%
d181	Industrial	0	0.0	0.00%	0.0	0.00%	1,274.0	0.03%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	1,698.6	0.04%
d432	Industrial	1,099	2,562.3	0.06%	30,071.3	0.69%	1,246.3	0.03%
d433	Industrial	28	7.3	0.00%	7.3	0.00%	78.3	0.00%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	5.3	0.00%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	2,351.2	0.05%
i21	Industrial	20	371.7	0.01%	371.7	0.01%	16,868.6	0.39%

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i24	Industrial	0	0.0	0.00%	0.0	0.00%	39.0	0.00%
i25	Industrial	8	5.1	0.00%	5.1	0.00%	128.1	0.00%
i26	Industrial	143	129.3	0.00%	129.3	0.00%	276.8	0.01%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	511.9	0.01%
i239	Industrial	321	1,399.6	0.03%	1,400.6	0.03%	800.0	0.02%
i241	Industrial	83	13,204.9	0.30%	13,204.9	0.30%	3,056.7	0.07%
i242	Industrial	1,922	267.8	0.01%	267.8	0.01%	788.8	0.02%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	241.6	0.01%
i244	Industrial	0	0.0	0.00%	0.0	0.00%	2,117.5	0.05%
ic062	Industrial	0	0.0	0.00%	0.0	0.00%	26.5	0.00%
d176	Training	0	0.0	0.00%	0.0	0.00%	31.6	0.00%
d180	Training	2,249	546.4	0.01%	586.7	0.01%	452.3	0.01%
ta046	Training	0	0.0	0.00%	0.0	0.00%	32.0	0.00%
ta047	Training	0	0.0	0.00%	0.0	0.00%	32.0	0.00%
ta053	Training	0	0.0	0.00%	0.0	0.00%	33.6	0.00%
ta067	Training	16	0.1	0.00%	0.1	0.00%	19.1	0.00%
ta068	Training	0	0.0	0.00%	0.0	0.00%	19.1	0.00%
ta069	Training	30	98.4	0.00%	98.4	0.00%	19.1	0.00%
ta070	Training	452	2,608.9	0.06%	4,196.8	0.10%	508.2	0.01%
ta071	Training	0	0.0	0.00%	0.0	0.00%	32.3	0.00%
ta073	Training	0	0.0	0.00%	0.0	0.00%	81.7	0.00%
ta074	Training	0	0.0	0.00%	0.0	0.00%	54.9	0.00%
ta075	Training	0	0.0	0.00%	0.0	0.00%	54.9	0.00%
ta076	Training	128	1.2	0.00%	1.2	0.00%	41.3	0.00%
ta077	Training	15	0.3	0.00%	0.3	0.00%	50.0	0.00%
ta078	Training	12	375.1	0.01%	250.1	0.01%	375.0	0.01%
d191	Service	418	0.0	0.00%	489.9	0.01%	4.2	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	74.8	0.00%
y02	Service	45	0.3	0.00%	48.8	0.00%	484.3	0.01%
y23	Service	0	0.0	0.00%	0.0	0.00%	55.6	0.00%
z19	Service	1,120	10,224.5	0.23%	10,225.9	0.24%	84,699.5	1.95%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.6	0.00%
d177	UoE Access	0	0.0	0.00%	0.0	0.00%	84.9	0.00%
DirectorsTime Total		23,583	54,266.4	1.25%	83,958.8	1.93%	143,822.5	3.31%
y07	Service	0	0.0	0.00%	0.0	0.00%	849.3	0.02%
z01	Service	0	0.0	0.00%	0.0	0.00%	849.3	0.02%
z02	Service	33	0.6	0.00%	0.6	0.00%	373.0	0.01%
CSE Total		33	0.6	0.00%	0.6	0.00%	2,071.7	0.05%
Total		173,402	2,132,883.4	49.02%	3,899,970.4	89.64%	3,389,543.5	77.90%

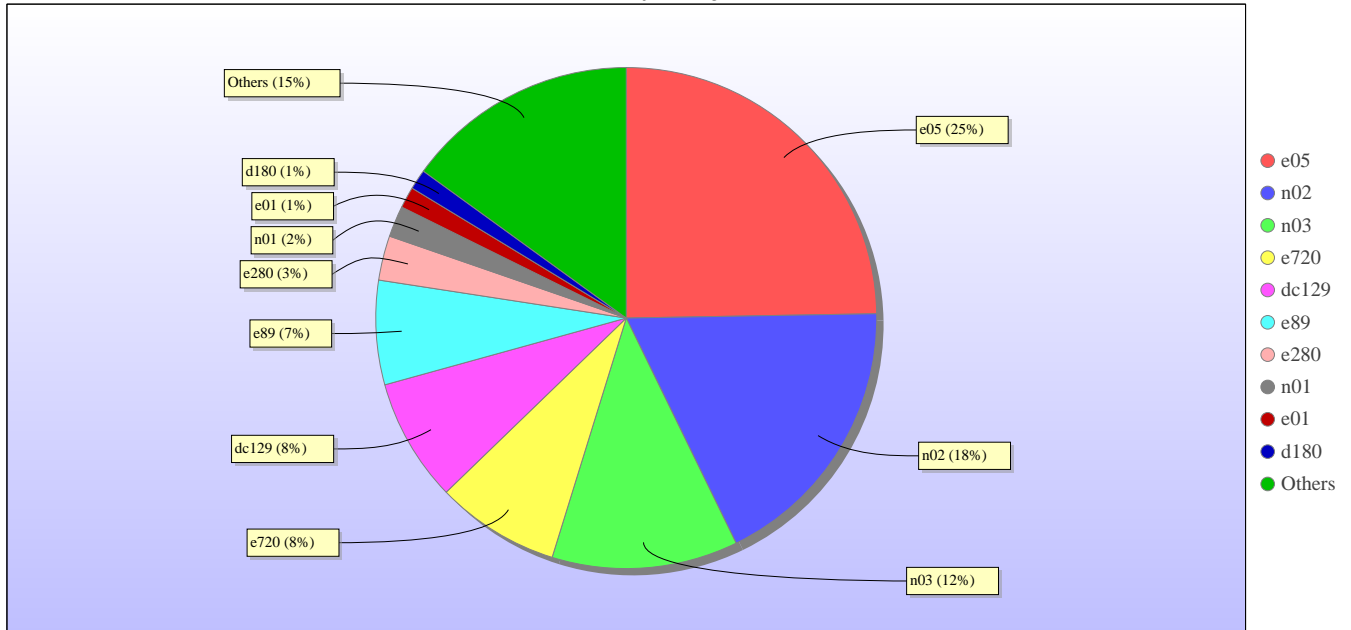
Use by Project



Uncharged Use by Project



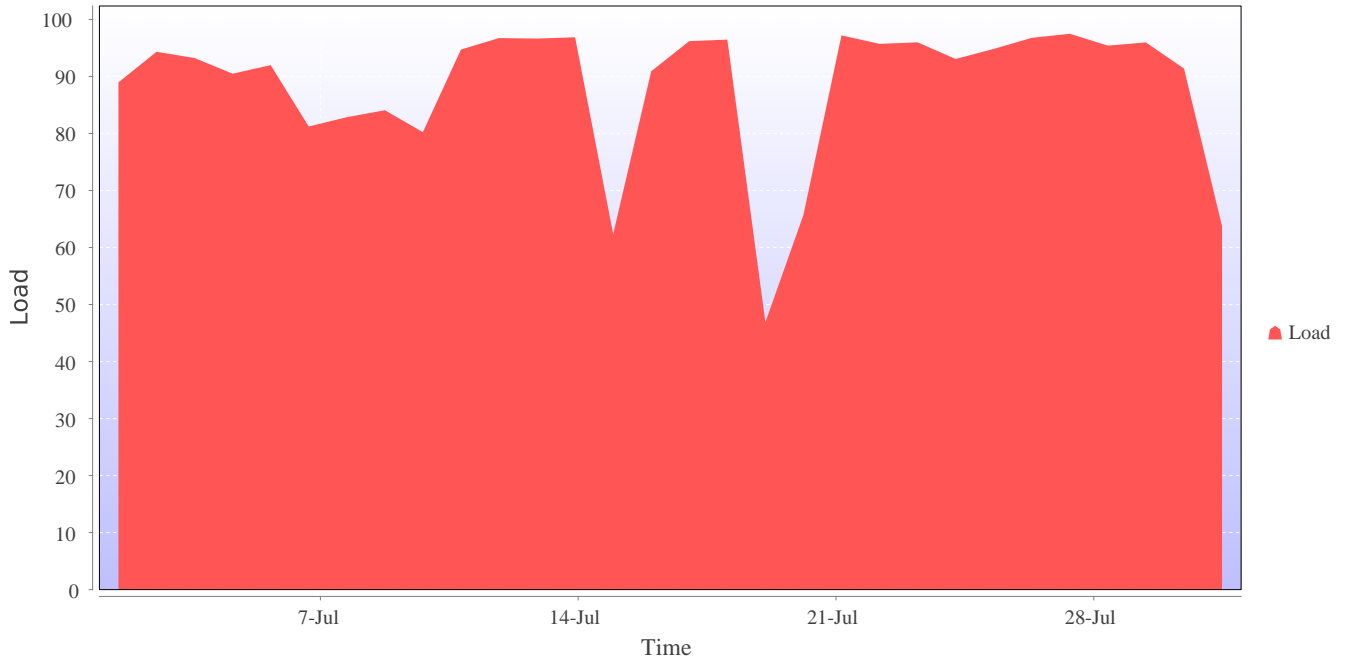
### Jobs by Project



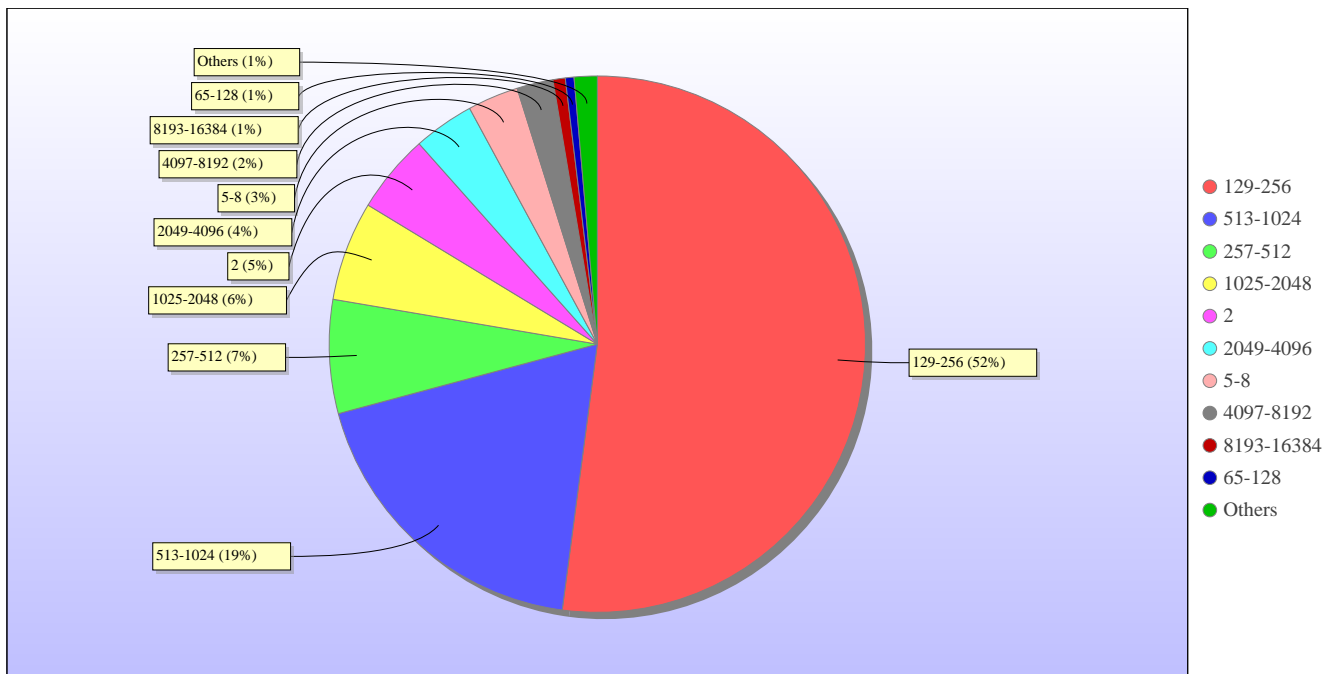
### CUs (by Size)

Size	CUs	Number of Jobs
1	0	156
2	0	8,243
3-4	0	99
5-8	0	5,313
9-16	0	121
17-32	0	270
33-64	0	123
65-128	0	907
129-256	123,983.488	90,324
257-512	104,268.384	11,881
513-1024	301,684.287	32,489
1025-2048	259,084.819	10,401
2049-4096	275,879.387	6,361
4097-8192	358,556.263	3,787
8193-16384	270,937.662	1,285
16385-32768	207,558.449	655
32769-65536	156,332.159	358
65537-131072	61,882.842	406
131073-262144	10,680.604	209
262145-524288	1,170.773	7
524289-1048576	489.244	1

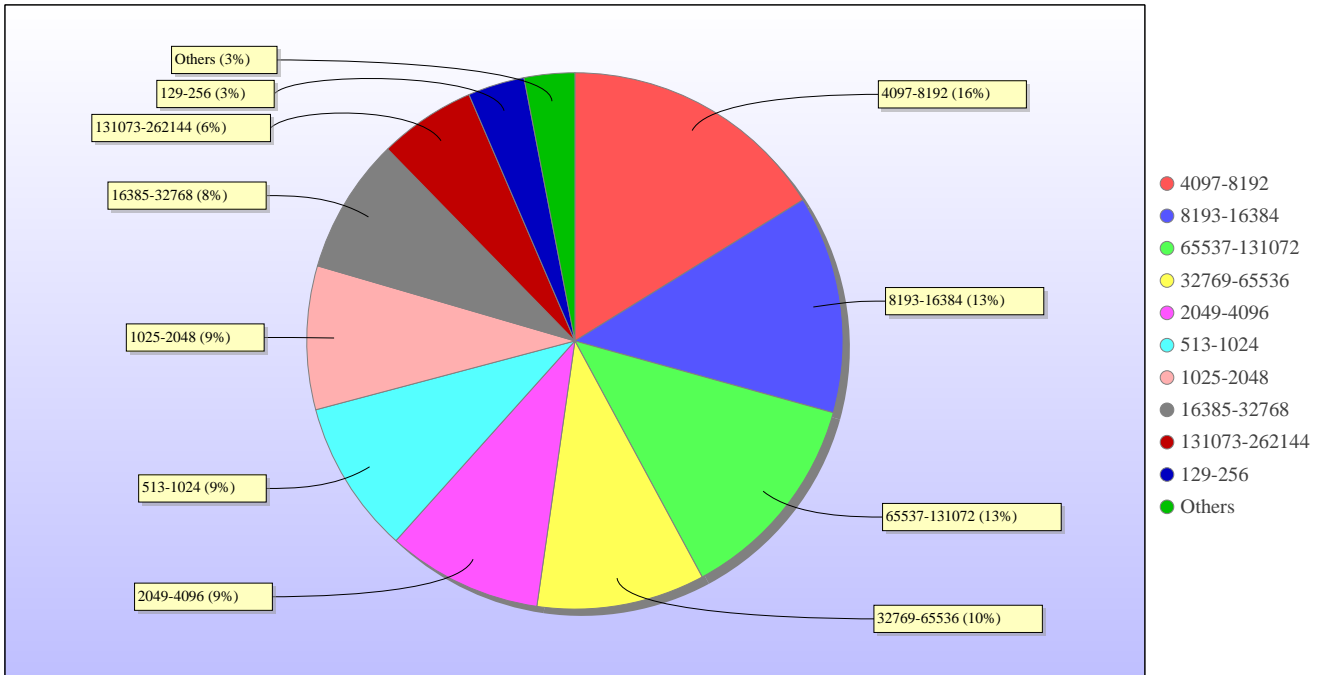
## Load plots



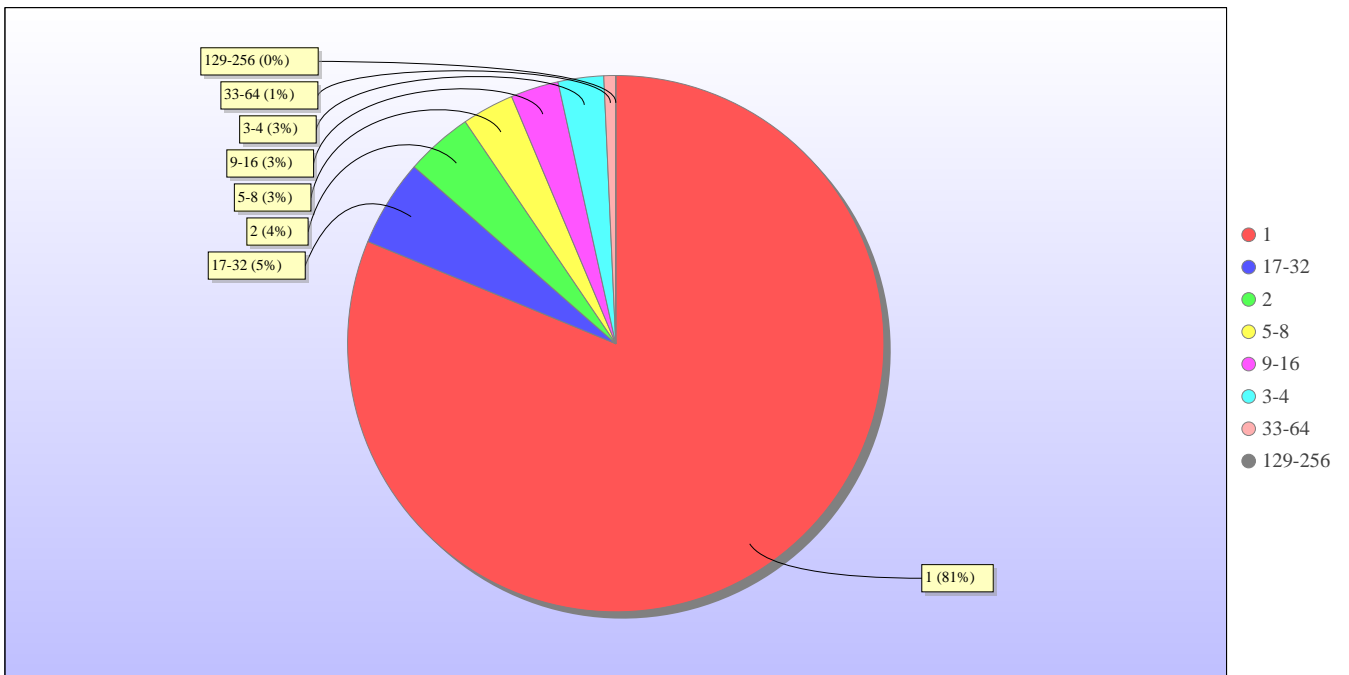
Percentage load on machine



Jobs by Size

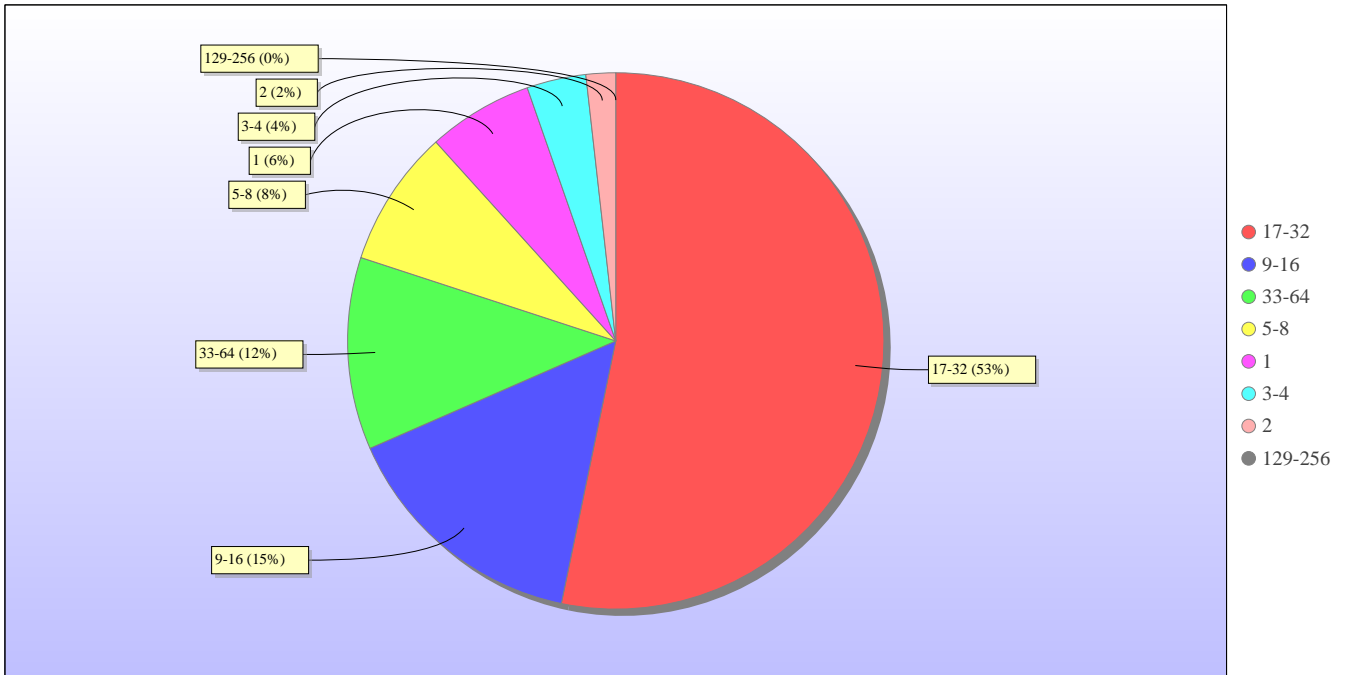


CUs used by Size

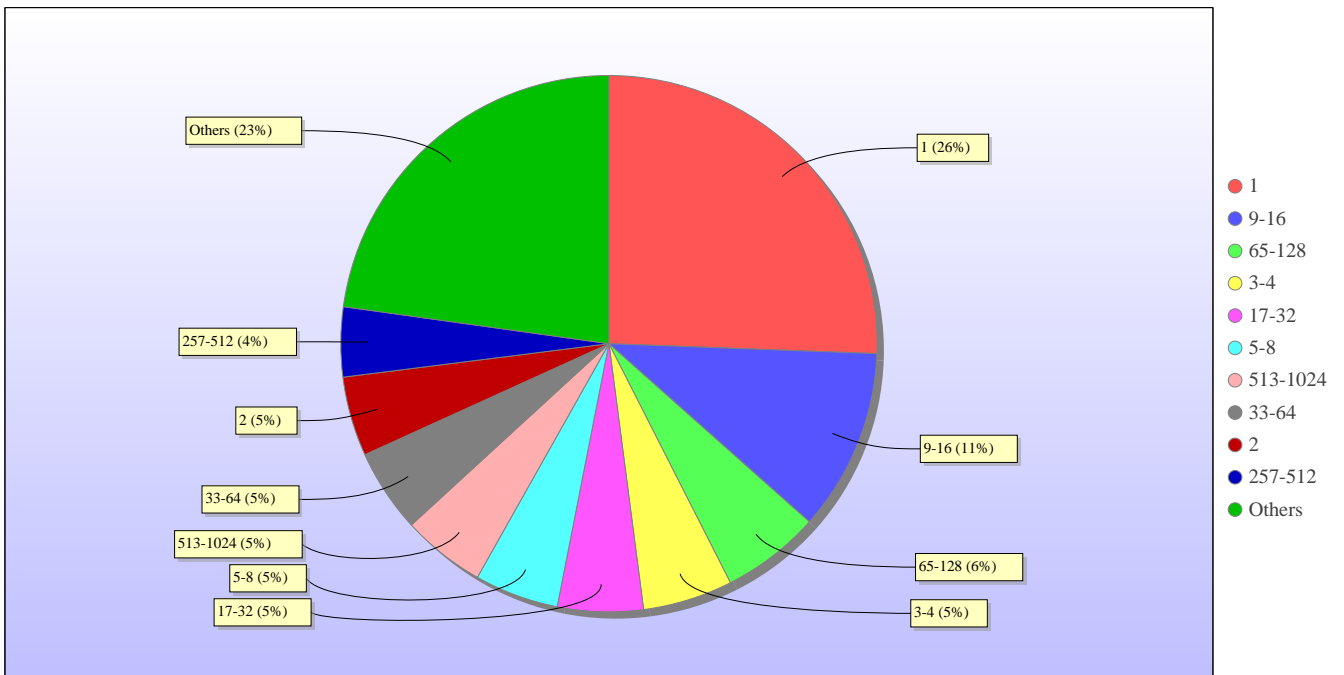


Jobs grouped by wall-clock-hours

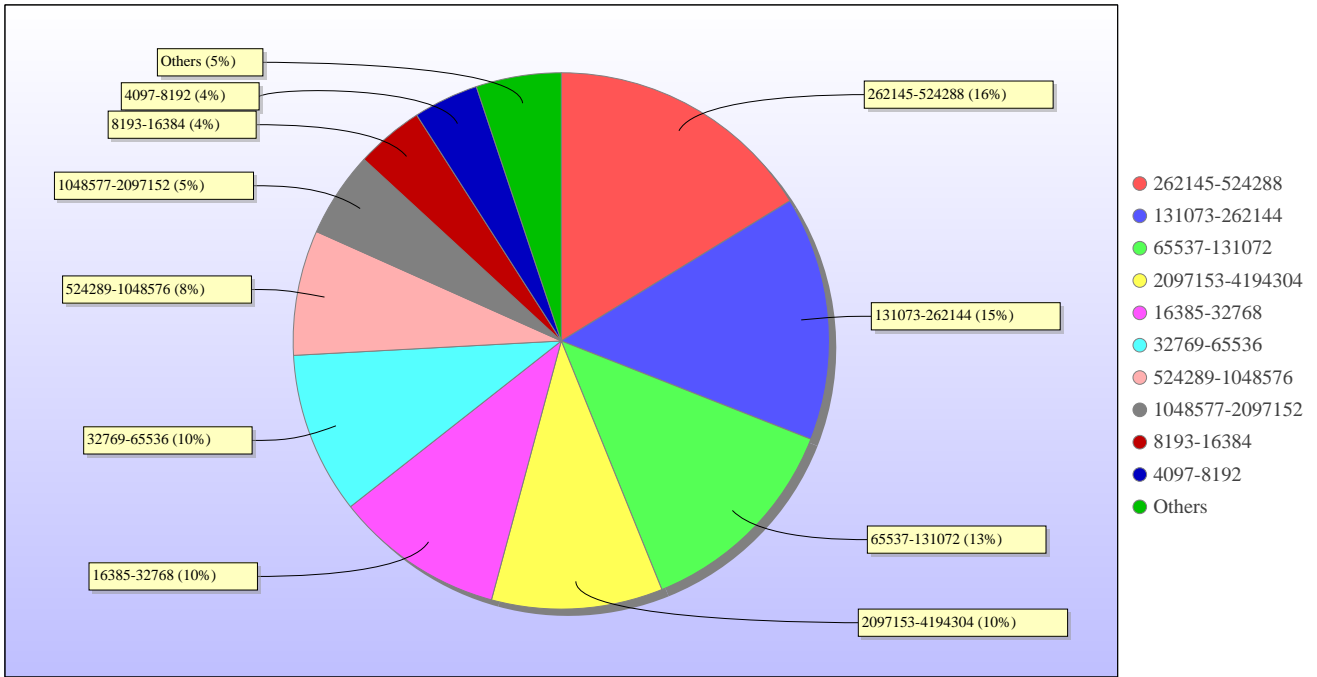




CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

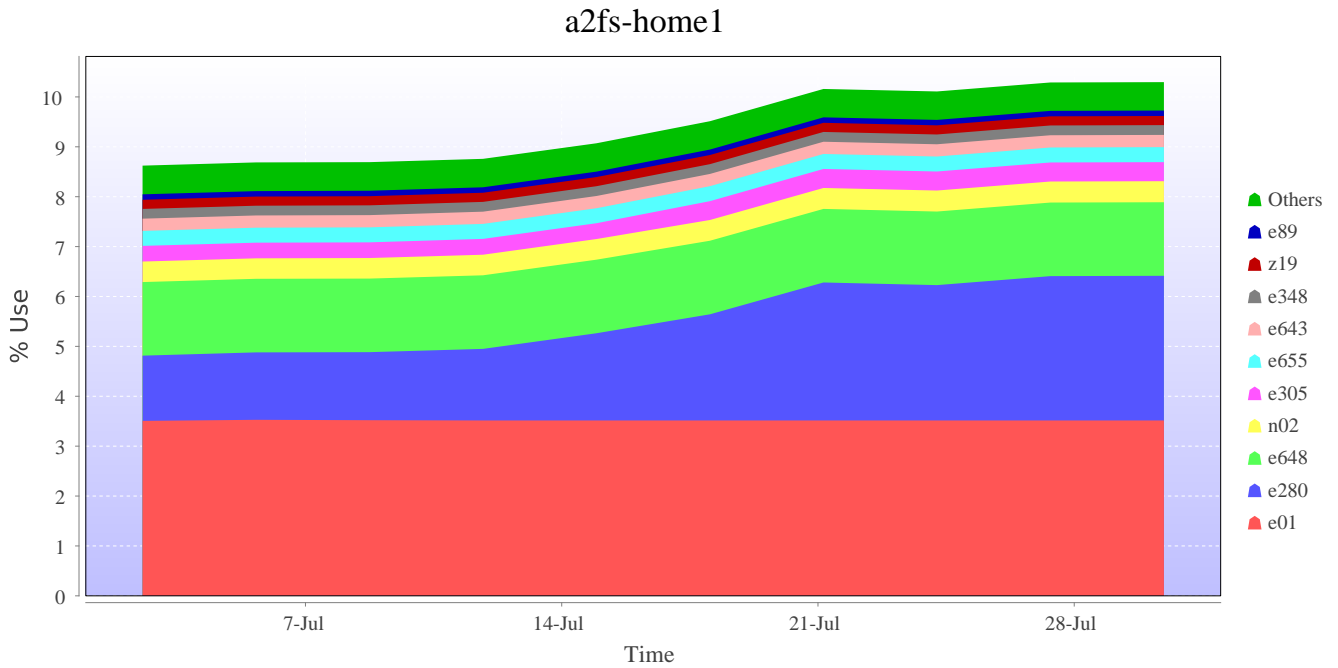


CUs used grouped by core-hours

## Disk usage

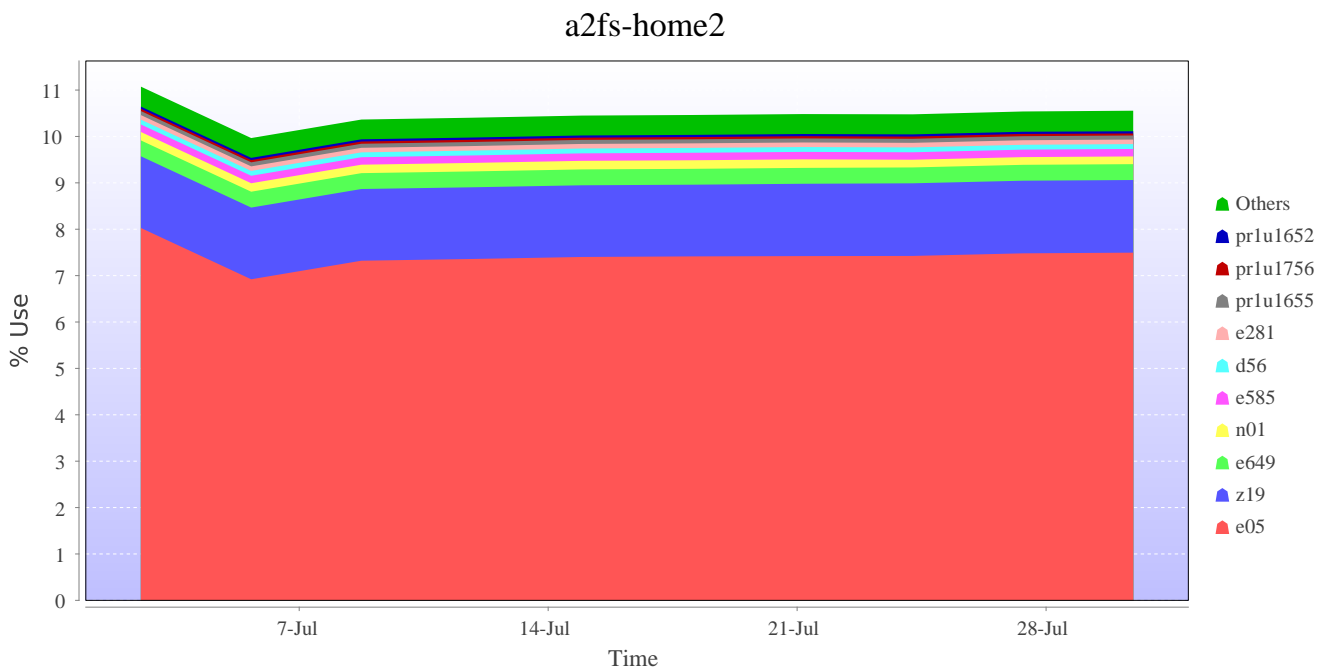
### Disk usage for home ( a2fs-home1 )

This is a plot of Disk Use on a2fs-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.



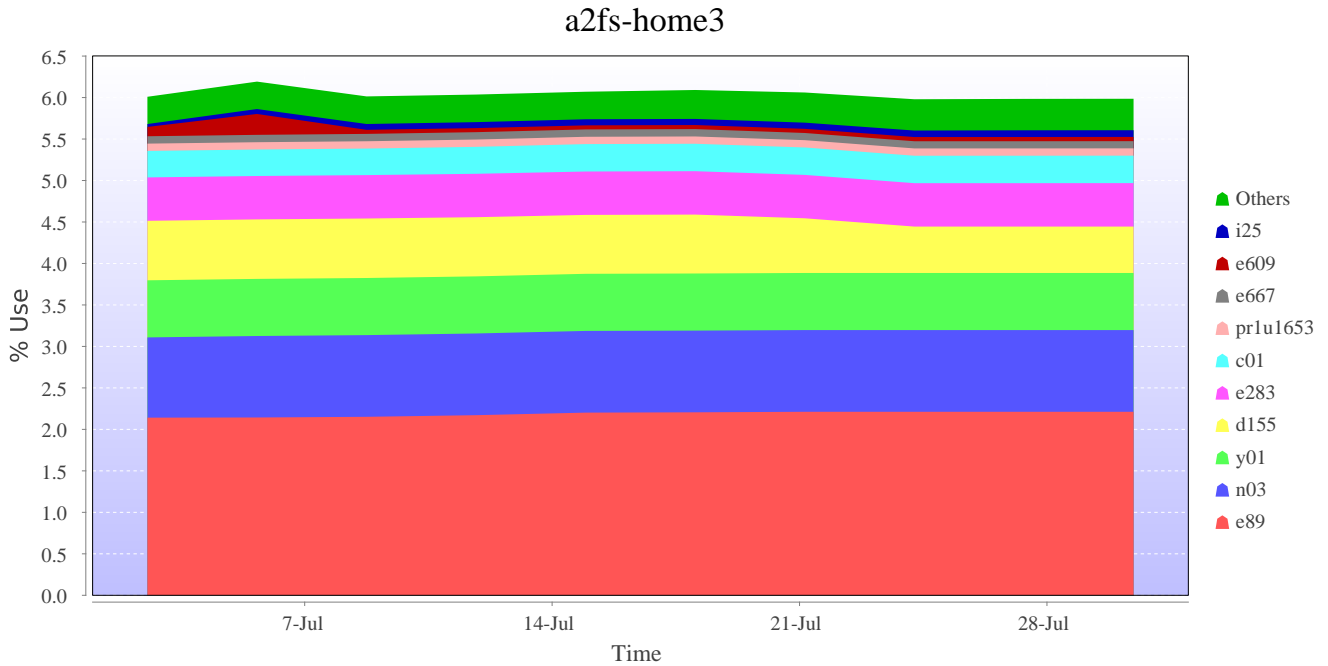
### Disk usage for home ( a2fs-home2 )

This is a plot of Disk Use on a2fs-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.



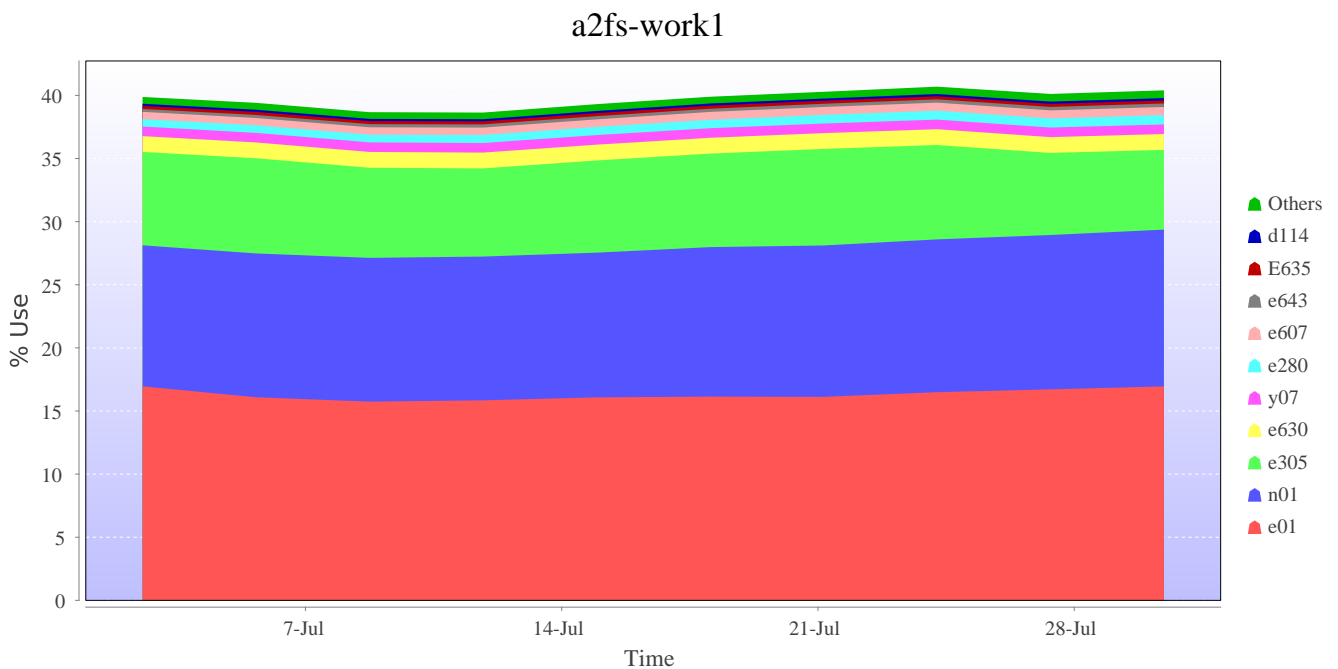
### Disk usage for home ( a2fs-home3 )

This is a plot of Disk Use on a2fs-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 work ( a2fs-work1 )

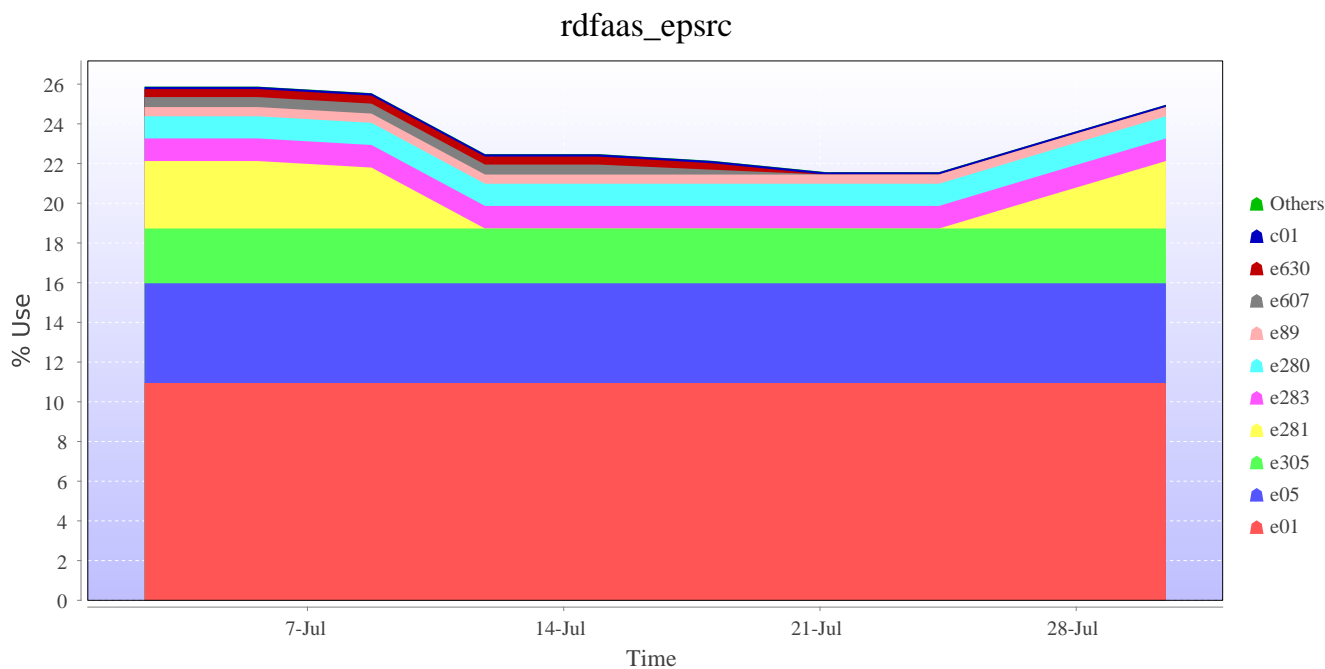
This is a plot of Disk Use on a2fs-work1 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.





## Disk usage for epsrc ( rdfaas\_epsrc )

This is a plot of Disk Use on rdfaas\_epsrc 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 general ( rdfaas\_general )

This is a plot of Disk Use on rdfaas\_general 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.

