

# Monthly Reporting

## Report from 01 August 2021 to 31 August 2021

### Report for Resource Pool Archer2 on archer2-4c

A total of 761,856 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.

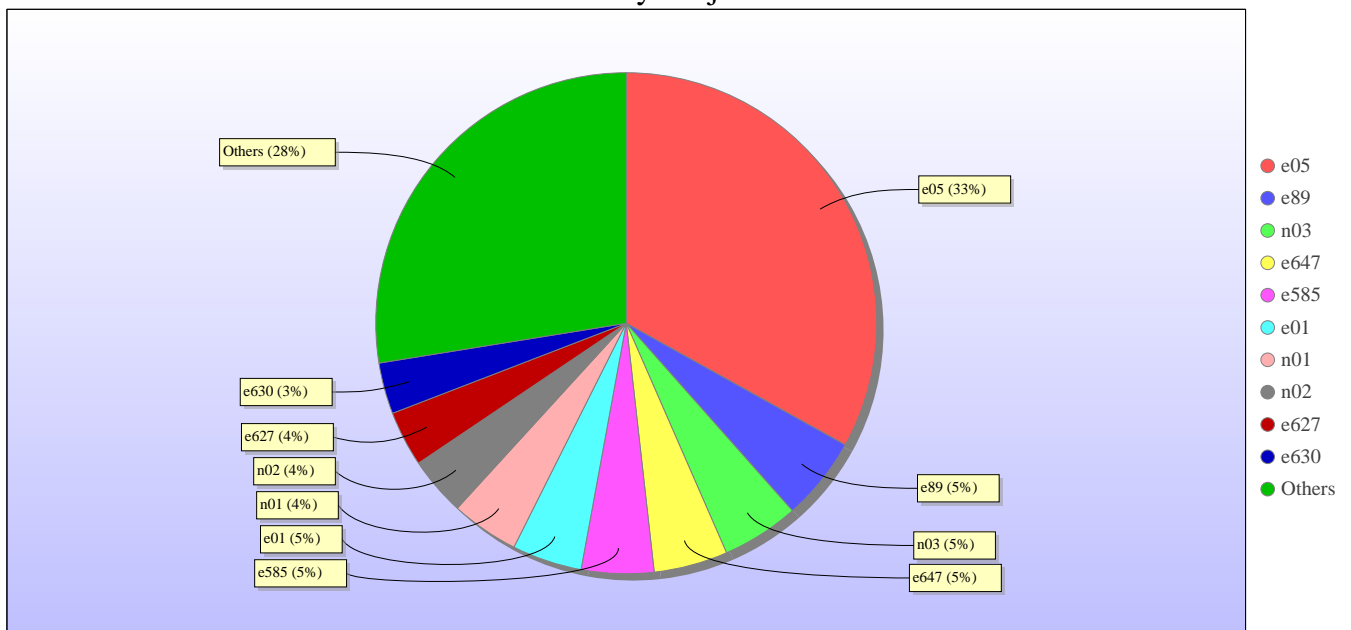
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseaa13	Early use	0	0.0	0.00%	0.0	0.00%	184.4	0.02%
e683	Pioneer Projects	1,006	13,319.4	1.75%	13,319.4	1.75%	9,377.5	1.23%
e685	Pioneer Projects	87	10,095.4	1.33%	10,095.4	1.33%	20,718.1	2.72%
e686	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	29.0	0.00%
e687	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	50.4	0.01%
e688	Pioneer Projects	213	1,569.1	0.21%	1,569.1	0.21%	22,318.3	2.93%
e689	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	50.4	0.01%
e690	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	50.4	0.01%
e691	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	50.4	0.01%
e692	Pioneer Projects	17	0.9	0.00%	0.9	0.00%	50.4	0.01%
e693	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	50.4	0.01%
E635	Class1a	695	1,043.0	0.14%	1,043.0	0.14%	3,352.3	0.44%
c01	Class1a	1,536	6,646.2	0.87%	6,646.2	0.87%	57,606.5	7.56%
e432	Class1a	47	152.8	0.02%	152.8	0.02%	5,220.8	0.69%
e448	Class1a	0	0.0	0.00%	0.0	0.00%	5,828.8	0.77%
e537	Class1a	0	0.0	0.00%	0.0	0.00%	1,245.7	0.16%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	2,586.4	0.34%
e572	Class1a	0	0.0	0.00%	0.0	0.00%	837.4	0.11%
e575	Class1a	3	11.8	0.00%	11.8	0.00%	846.4	0.11%
e606	Class1a	71	206.5	0.03%	206.5	0.03%	7,532.4	0.99%
e607	Class1a	163	2,658.3	0.35%	2,658.3	0.35%	10,618.2	1.39%
e608	Class1a	69	6,380.1	0.84%	6,380.1	0.84%	3,217.3	0.42%
e609	Class1a	225	4,071.9	0.53%	4,071.9	0.53%	1,547.3	0.20%
e610	Class1a	0	0.0	0.00%	0.0	0.00%	1,558.0	0.20%
e613	Class1a	60	1,433.3	0.19%	1,433.3	0.19%	874.8	0.11%
e627	Class1a	499	23,597.9	3.10%	23,597.9	3.10%	8,469.9	1.11%
e630	Class1a	50	21,806.2	2.86%	21,809.5	2.86%	36,918.1	4.85%
e637	Class1a	10	23.1	0.00%	23.1	0.00%	1,676.2	0.22%
e642	Class1a	0	0.0	0.00%	0.0	0.00%	4,836.5	0.63%
e643	Class1a	34	184.0	0.02%	184.0	0.02%	4,778.9	0.63%
e645	Class1a	0	0.0	0.00%	0.0	0.00%	2,691.1	0.35%
e647	Class1a	1,271	31,141.1	4.09%	31,478.8	4.13%	11,418.0	1.50%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e648	Class1a	4	45.0	0.01%	45.0	0.01%	1,613.9	0.21%
e649	Class1a	27	1,918.9	0.25%	1,918.9	0.25%	6,706.2	0.88%
e651	Class1a	326	5,785.3	0.76%	5,785.3	0.76%	1,344.3	0.18%
e655	Class1a	42	404.9	0.05%	593.1	0.08%	4,404.1	0.58%
e663	Class1a	64	1,149.1	0.15%	1,149.1	0.15%	2,793.6	0.37%
e667	Class1a	20	462.0	0.06%	462.0	0.06%	2,167.2	0.28%
e668	Class1a	20	45.0	0.01%	45.0	0.01%	1,614.3	0.21%
e681	Class1a	0	0.0	0.00%	0.0	0.00%	595.1	0.08%
e682	Class1a	87	36.7	0.00%	36.7	0.00%	2,454.3	0.32%
e684	Class1a	0	0.0	0.00%	0.0	0.00%	1,047.2	0.14%
e694	Class1a	13	1.6	0.00%	1.6	0.00%	1,895.4	0.25%
e696	Class1a	0	0.0	0.00%	0.0	0.00%	75.0	0.01%
e697	Class1a	39	1,383.9	0.18%	1,383.9	0.18%	2,935.1	0.39%
e700	Class1a	6	0.2	0.00%	0.2	0.00%	409.1	0.05%
e701	Class1a	515	1,476.9	0.19%	1,476.9	0.19%	2,070.5	0.27%
e702	Class1a	74	298.8	0.04%	298.8	0.04%	1,000.2	0.13%
e707	Class1a	24	8,168.3	1.07%	8,168.3	1.07%	4,778.0	0.63%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	50.0	0.01%
e710	Class1a	0	0.0	0.00%	0.0	0.00%	52.9	0.01%
e6337	Class1a	10	1,589.9	0.21%	1,589.9	0.21%	2,235.4	0.29%
e01	Consortia	1,487	29,435.6	3.86%	29,728.6	3.90%	51,731.5	6.79%
e05	Consortia	8,573	197,733.5	25.95%	218,049.2	28.62%	164,209.3	21.55%
e89	Consortia	4,227	35,525.5	4.66%	35,525.5	4.66%	63,309.4	8.31%
e280	Consortia	174	7,508.7	0.99%	7,508.7	0.99%	35,560.8	4.67%
e281	Consortia	755	21,241.0	2.79%	21,241.0	2.79%	11,320.5	1.49%
e283	Consortia	1,441	9,220.8	1.21%	9,220.8	1.21%	12,481.9	1.64%
e305	Consortia	787	20,509.9	2.69%	21,311.4	2.80%	21,431.9	2.81%
e585	Consortia	801	30,813.6	4.04%	30,813.6	4.04%	22,354.0	2.93%
e695	Pump Priming	0	0.0	0.00%	0.0	0.00%	128.5	0.02%
e698	Pump Priming	0	0.0	0.00%	0.0	0.00%	134.8	0.02%
e699	Pump Priming	0	0.0	0.00%	0.0	0.00%	101.6	0.01%
e703	Pump Priming	0	0.0	0.00%	0.0	0.00%	135.5	0.02%
e704	Pump Priming	3	0.5	0.00%	0.5	0.00%	129.8	0.02%
e709	Pump Priming	20	53.1	0.01%	53.1	0.01%	115.3	0.02%
e711	Pump Priming	0	0.0	0.00%	0.0	0.00%	73.2	0.01%
e348	Direct Access: ARCHER RAP	1,762	5,852.7	0.77%	5,852.7	0.77%	3,671.6	0.48%
e507	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	2,254.2	0.30%
e664	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	894.0	0.12%
e672	Direct Access: ARCHER RAP	410	7,703.3	1.01%	7,703.3	1.01%	2,293.9	0.30%
e676	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	3,452.4	0.45%
e677	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	6,537.8	0.86%
e632	Instant Access	0	0.0	0.00%	0.0	0.00%	4,869.1	0.64%
e669	Instant Access	0	0.0	0.00%	0.0	0.00%	81.0	0.01%
ecseaa12	eCSE	0	0.0	0.00%	0.0	0.00%	67.9	0.01%
ecseac10	eCSE	0	0.0	0.00%	0.0	0.00%	113.1	0.01%
ta021	Training	0	0.0	0.00%	0.0	0.00%	63.9	0.01%
ta026	Training	158	1.8	0.00%	1.8	0.00%	63.5	0.01%
ta027	Training	160	0.5	0.00%	0.5	0.00%	84.9	0.01%
ta030	Training	0	0.0	0.00%	0.0	0.00%	393.9	0.05%
ta031	Training	5	0.0	0.00%	0.0	0.00%	393.9	0.05%
ta032	Training	4	0.0	0.00%	0.0	0.00%	420.3	0.06%
ta033	Training	24	2.3	0.00%	2.3	0.00%	393.9	0.05%
ta035	Training	36	0.1	0.00%	0.1	0.00%	491.5	0.06%
ta036	Training	0	0.0	0.00%	0.0	0.00%	245.7	0.03%
ta039	Training	0	0.0	0.00%	0.0	0.00%	142.9	0.02%
ec110	Tier2 RAP	0	0.0	0.00%	0.0	0.00%	227.1	0.03%
e596	Access to HPC	3	1.5	0.00%	1.5	0.00%	1,127.1	0.15%
e673	Access to HPC	241	382.4	0.05%	382.4	0.05%	4,508.4	0.59%

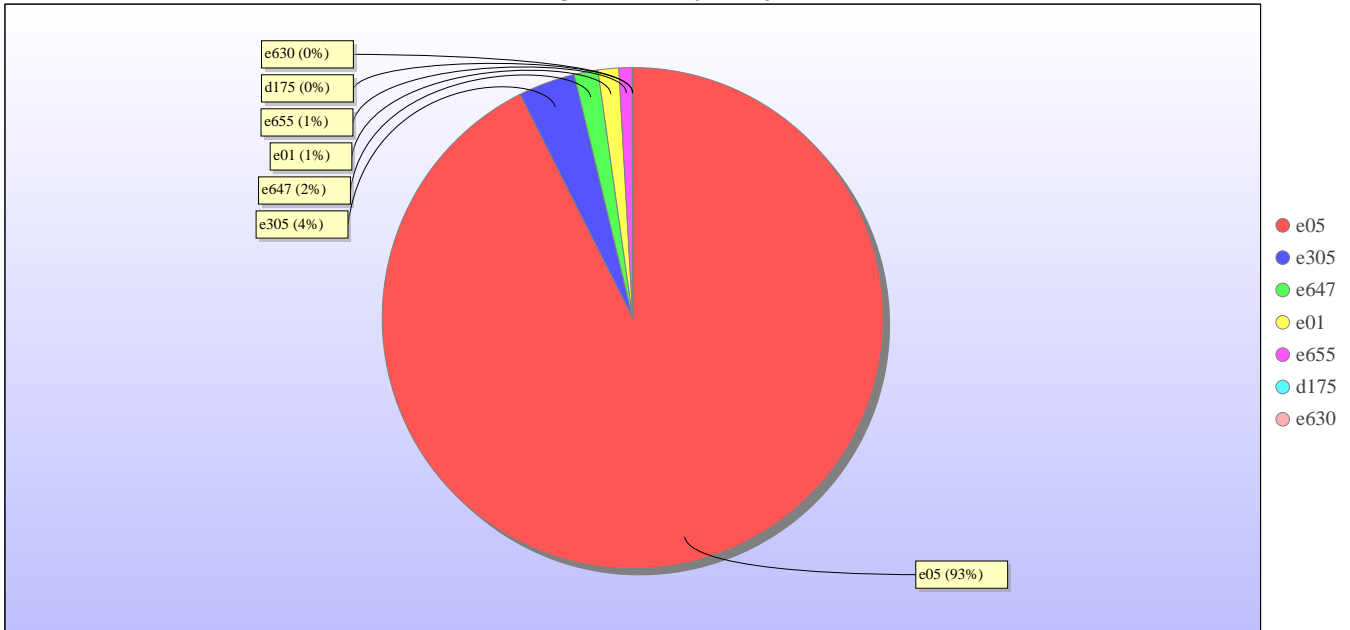
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e674	Access to HPC	14	2,006.9	0.26%	2,006.9	0.26%	2,195.0	0.29%
e675	Access to HPC	392	11,513.2	1.51%	11,513.2	1.51%	11,902.2	1.56%
e678	Access to HPC	85	493.6	0.06%	493.6	0.06%	811.5	0.11%
e679	Access to HPC	229	894.1	0.12%	894.1	0.12%	3,246.1	0.43%
e680	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,381.3	0.44%
e705	Access to HPC	285	299.4	0.04%	299.4	0.04%	3,716.0	0.49%
<b>EPSRC Total</b>		<b>29,403</b>	<b>528,301.4</b>	<b>69.34%</b>	<b>550,240.9</b>	<b>72.22%</b>	<b>708,094.8</b>	<b>92.94%</b>
n01	Consortia	1,046	28,892.4	3.79%	28,892.4	3.79%	153,980.8	20.21%
n02	Consortia	7,809	24,968.7	3.28%	24,968.7	3.28%	439,265.8	57.66%
n03	Consortia	1,467	32,886.9	4.32%	32,886.9	4.32%	112,364.4	14.75%
<b>NERC Total</b>		<b>10,322</b>	<b>86,748.0</b>	<b>11.39%</b>	<b>86,748.0</b>	<b>11.39%</b>	<b>705,611.0</b>	<b>92.62%</b>
e621	Class1a	2	48.0	0.01%	48.0	0.01%	2,611.7	0.34%
<b>BBSRC Total</b>		<b>2</b>	<b>48.0</b>	<b>0.01%</b>	<b>48.0</b>	<b>0.01%</b>	<b>2,611.7</b>	<b>0.34%</b>
pr1u1651	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	801.2	0.11%
pr1u1652	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,580.1	0.34%
pr1u1653	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,685.4	0.35%
pr1u1654	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	549.6	0.07%
pr1u1655	DECI: EXEC	533	1,606.8	0.21%	1,606.8	0.21%	4,233.7	0.56%
pr1u1656	DECI: EXEC	2,123	1,398.0	0.18%	1,398.0	0.18%	4,271.8	0.56%
pr1u1657	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	509.5	0.07%
pr1u1658	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,238.0	0.29%
pr1u1659	DECI: EXEC	13	162.5	0.02%	162.5	0.02%	1,581.7	0.21%
pr1u1751	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,621.7	0.21%
pr1u1752	DECI: EXEC	2	0.1	0.00%	0.1	0.00%	1,927.1	0.25%
pr1u1753	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,289.4	0.30%
pr1u1754	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,649.8	0.35%
pr1u1755	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,734.4	0.23%
pr1u1756	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	4,089.0	0.54%
pr1u1757	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	916.8	0.12%
pr1u1758	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	715.4	0.09%
pr1u1759	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,540.7	0.20%
pr1u1760	DECI: EXEC	1	0.0	0.00%	0.0	0.00%	578.1	0.08%
pr1u1601	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1602	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1603	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1604	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1605	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1606	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1608	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1609	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1610	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1611	DECI: HOME	0	0.0	0.00%	0.0	0.00%	83.3	0.01%
pr1u1702	DECI: HOME	160	2,396.6	0.31%	2,396.6	0.31%	1,702.7	0.22%
pr1u1707	DECI: HOME	835	4,851.8	0.64%	4,851.8	0.64%	1,475.4	0.19%
pr1ush01	DECI: HOME	0	0.0	0.00%	0.0	0.00%	611.6	0.08%
pr1ushpc	DECI: HOME	1,374	215.8	0.03%	215.8	0.03%	82.9	0.01%
<b>PRACE Total</b>		<b>5,041</b>	<b>10,631.5</b>	<b>1.40%</b>	<b>10,631.5</b>	<b>1.40%</b>	<b>41,470.3</b>	<b>5.44%</b>
ecseaa06	eCSE	0	0.0	0.00%	0.0	0.00%	184.4	0.02%
ecseaa09	eCSE	0	0.0	0.00%	0.0	0.00%	92.2	0.01%
ecseaa11	eCSE	0	0.0	0.00%	0.0	0.00%	78.6	0.01%
ecseaa14	eCSE	0	0.0	0.00%	0.0	0.00%	237.3	0.03%
ecseaa16	eCSE	418	123.1	0.02%	123.1	0.02%	236.1	0.03%
ecseaa19	eCSE	0	0.0	0.00%	0.0	0.00%	102.9	0.01%
ecseaa20	eCSE	392	1,207.0	0.16%	1,207.0	0.16%	250.4	0.03%
ecseaa21	eCSE	0	0.0	0.00%	0.0	0.00%	68.6	0.01%
ecseaa22	eCSE	0	0.0	0.00%	0.0	0.00%	207.8	0.03%
ecseaa26	eCSE	0	0.0	0.00%	0.0	0.00%	37.2	0.00%
ecseaa28	eCSE	0	0.0	0.00%	0.0	0.00%	80.2	0.01%
ecseab02	eCSE	0	0.0	0.00%	0.0	0.00%	93.1	0.01%
ecseab03	eCSE	0	0.0	0.00%	0.0	0.00%	150.3	0.02%
ecseab04	eCSE	6	40.7	0.01%	40.7	0.01%	58.8	0.01%
ecseab06	eCSE	34	7.3	0.00%	7.3	0.00%	16.9	0.00%
ecseab11	eCSE	12	0.3	0.00%	0.3	0.00%	19.0	0.00%

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ecseab12	eCSE	0	0.0	0.00%	0.0	0.00%	63.0	0.01%
ecseab13	eCSE	0	0.0	0.00%	0.0	0.00%	49.5	0.01%
ecseac02	eCSE	0	0.0	0.00%	0.0	0.00%	56.9	0.01%
ecseac04	eCSE	10	1.1	0.00%	1.1	0.00%	101.4	0.01%
ecseac06	eCSE	0	0.0	0.00%	0.0	0.00%	78.8	0.01%
ecsead07	eCSE	4	0.5	0.00%	0.5	0.00%	66.0	0.01%
<b>eCSE Total</b>		<b>876</b>	<b>1,379.9</b>	<b>0.18%</b>	<b>1,379.9</b>	<b>0.18%</b>	<b>2,329.1</b>	<b>0.31%</b>
d35	Research	0	0.0	0.00%	0.0	0.00%	144.2	0.02%
d56	Research	455	1,788.7	0.23%	1,788.7	0.23%	7,242.9	0.95%
d114	Research	12	57.0	0.01%	57.0	0.01%	15,693.2	2.06%
d118	Research	118	45.9	0.01%	45.9	0.01%	792.7	0.10%
d137	Research	3	112.0	0.01%	112.0	0.01%	1,667.6	0.22%
d142	Research	92	1,106.9	0.15%	1,106.9	0.15%	1,883.8	0.25%
d155	Research	65	19.1	0.00%	19.1	0.00%	9,025.3	1.18%
d175	Research	94	173.5	0.02%	176.8	0.02%	677.4	0.09%
d428	Research	0	0.0	0.00%	0.0	0.00%	71.3	0.01%
d429	Research	616	1,873.8	0.25%	1,873.8	0.25%	2,350.0	0.31%
d432	Industrial	0	0.0	0.00%	0.0	0.00%	2,089.0	0.27%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	179.1	0.02%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	2,375.6	0.31%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	531.8	0.07%
i239	Industrial	0	0.0	0.00%	0.0	0.00%	1,901.4	0.25%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	1.1	0.00%
d174	Training	40	1.8	0.00%	1.8	0.00%	506.5	0.07%
ta034	Training	74	4.9	0.00%	4.9	0.00%	547.2	0.07%
y02	Service	89	41.0	0.01%	41.0	0.01%	112.7	0.01%
y23	Service	0	0.0	0.00%	0.0	0.00%	168.4	0.02%
z19	Service	814	5,097.1	0.67%	5,097.1	0.67%	16,939.9	2.22%
z99	Service	0	0.0	0.00%	0.0	0.00%	1.7	0.00%
sc004	UoE Access	0	0.0	0.00%	0.0	0.00%	11.4	0.00%
<b>DirectorsTime Total</b>		<b>2,472</b>	<b>10,321.6</b>	<b>1.35%</b>	<b>10,325.0</b>	<b>1.36%</b>	<b>64,914.1</b>	<b>8.52%</b>
y07	Service	9	0.7	0.00%	0.7	0.00%	169.9	0.02%
z01	Service	0	0.0	0.00%	0.0	0.00%	84.9	0.01%
z02	Service	4	0.0	0.00%	0.0	0.00%	678.3	0.09%
<b>CSE Total</b>		<b>13</b>	<b>0.7</b>	<b>0.00%</b>	<b>0.7</b>	<b>0.00%</b>	<b>933.1</b>	<b>0.12%</b>
<b>Total</b>		<b>48,129</b>	<b>637,431.1</b>	<b>83.67%</b>	<b>659,374.0</b>	<b>86.55%</b>	<b>1,525,964.1</b>	<b>200.30%</b>

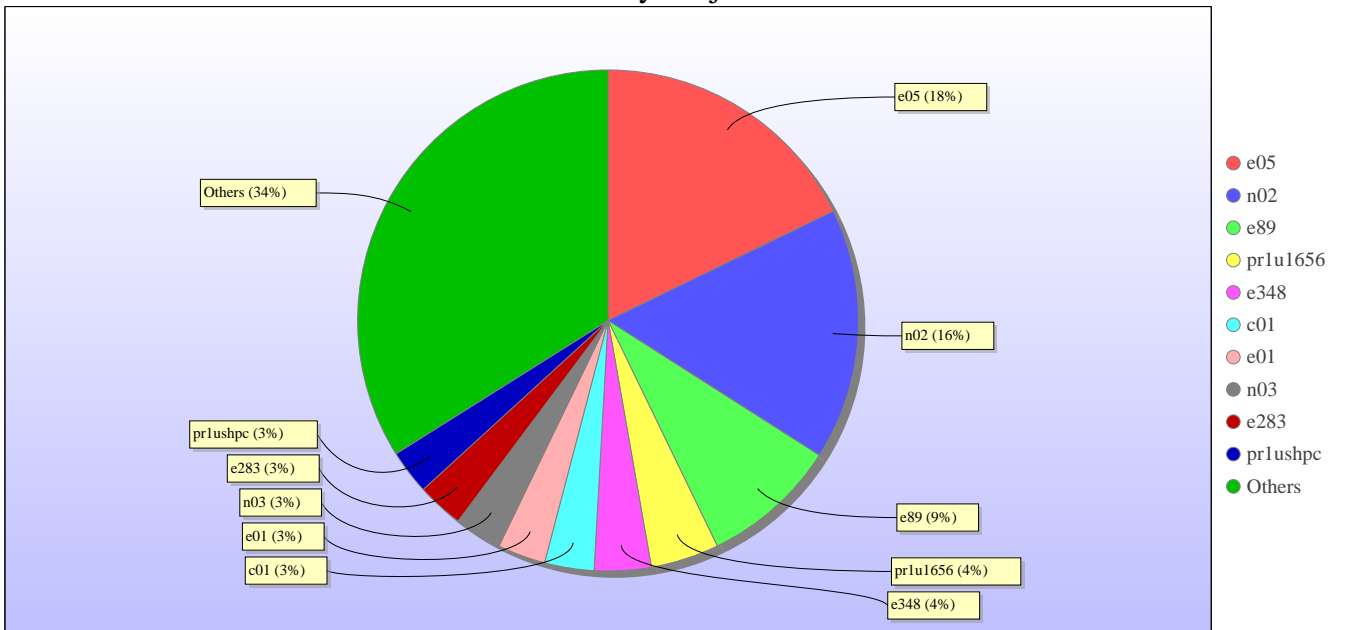
Use by Project



### Uncharged Use by Project



### Jobs by Project

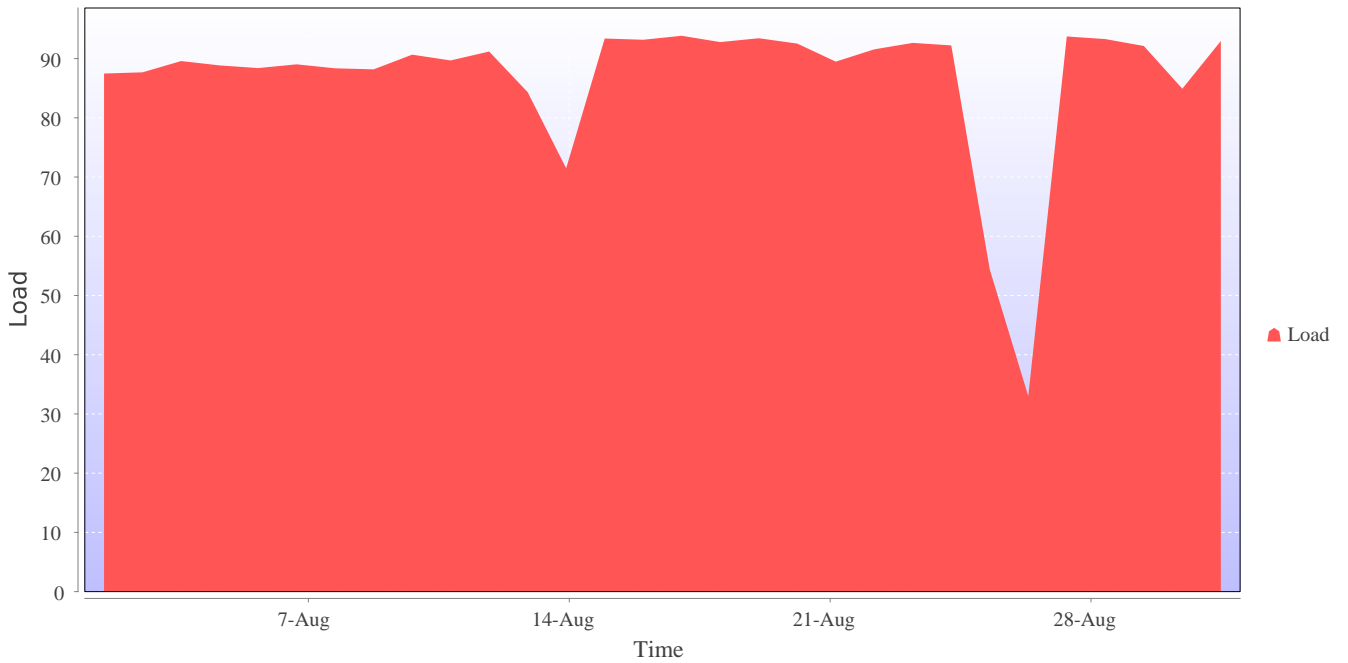


### CUs (by Size)

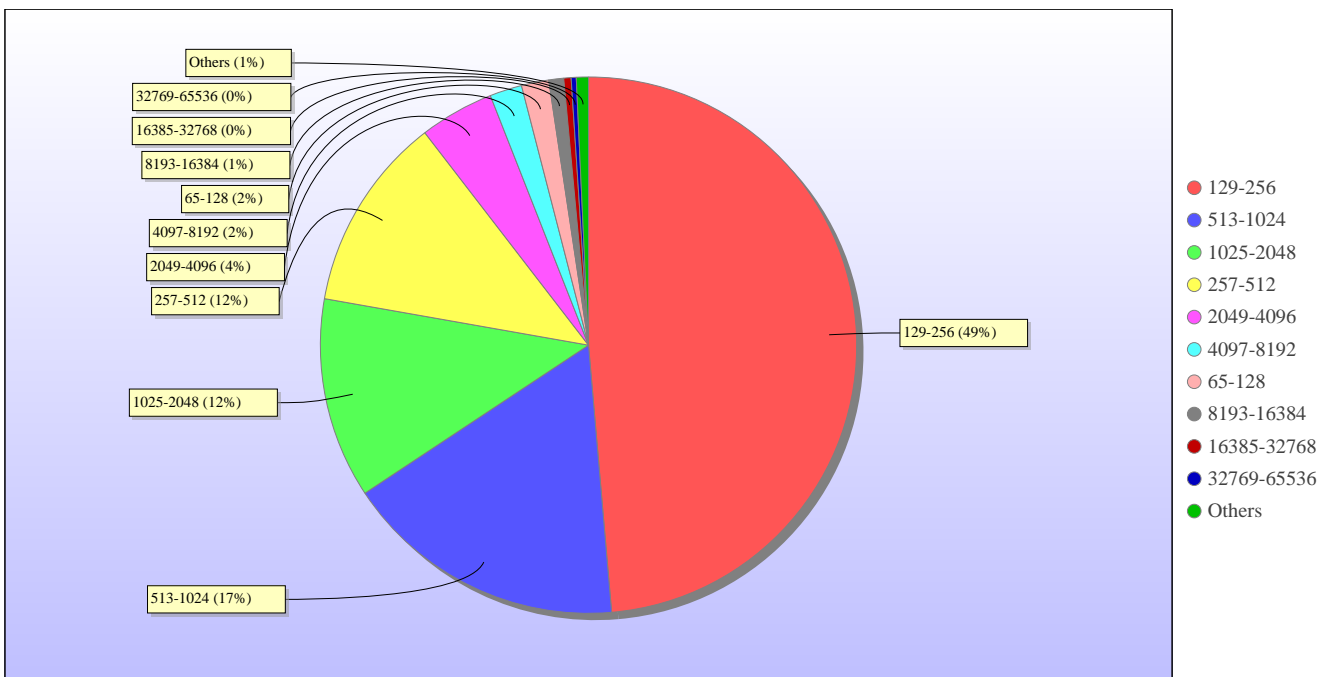
Size	CUs	Number of Jobs
1	0	85
2	0	5
3-4	0	3
5-8	0	17
9-16	0	47
17-32	0	62
33-64	0	122
65-128	0	794
129-256	56,529.536	23,403
257-512	46,472.386	5,667
513-1024	79,584.658	8,215

Size	CUs	Number of Jobs
1025-2048	106,234.331	5,815
2049-4096	107,112.413	2,158
4097-8192	102,323.076	935
8193-16384	106,418.517	431
16385-32768	27,151.91	213
32769-65536	4,016.574	147
65537-131072	1,475.698	7
131073-262144	112	3

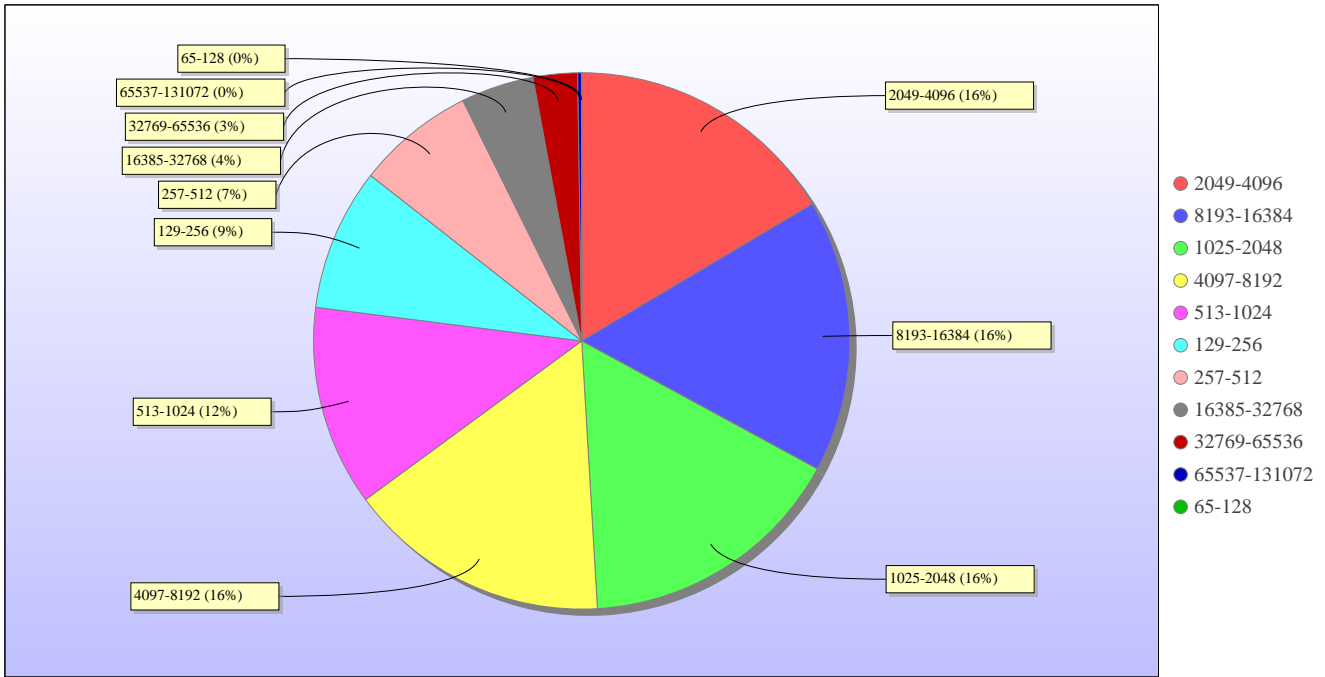
### Load plots



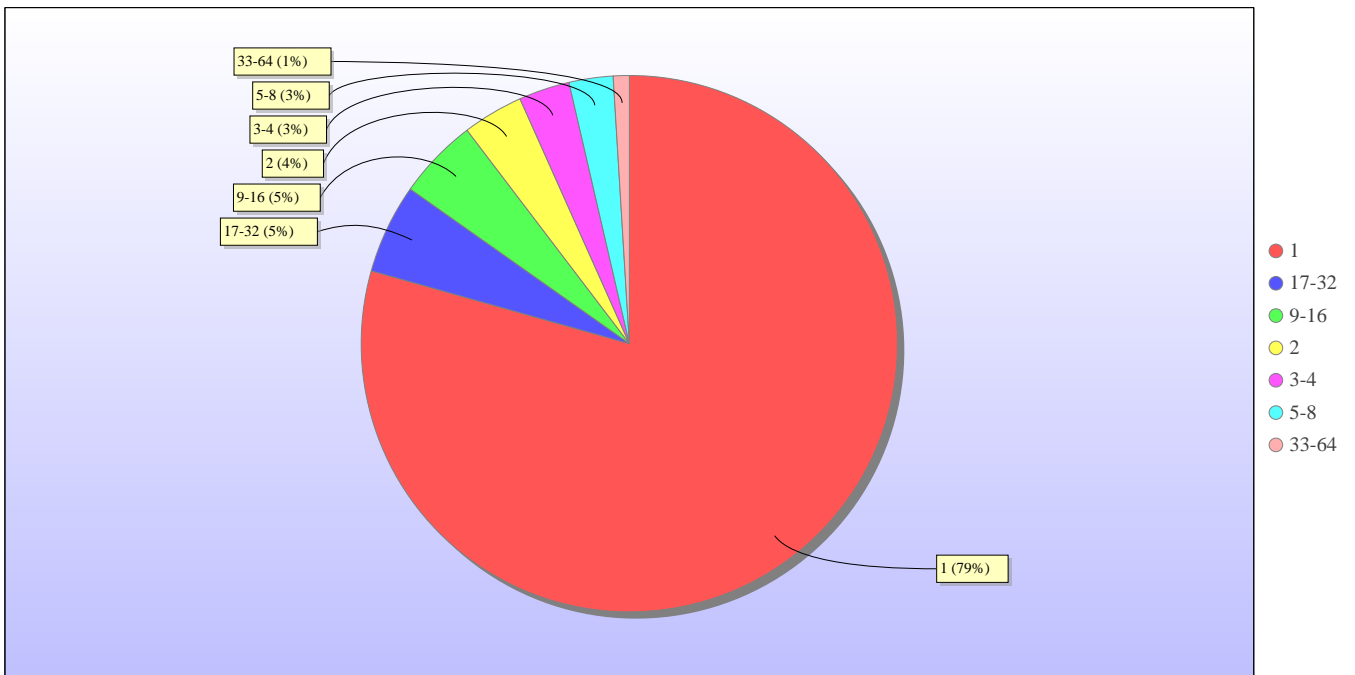
Percentage load on machine



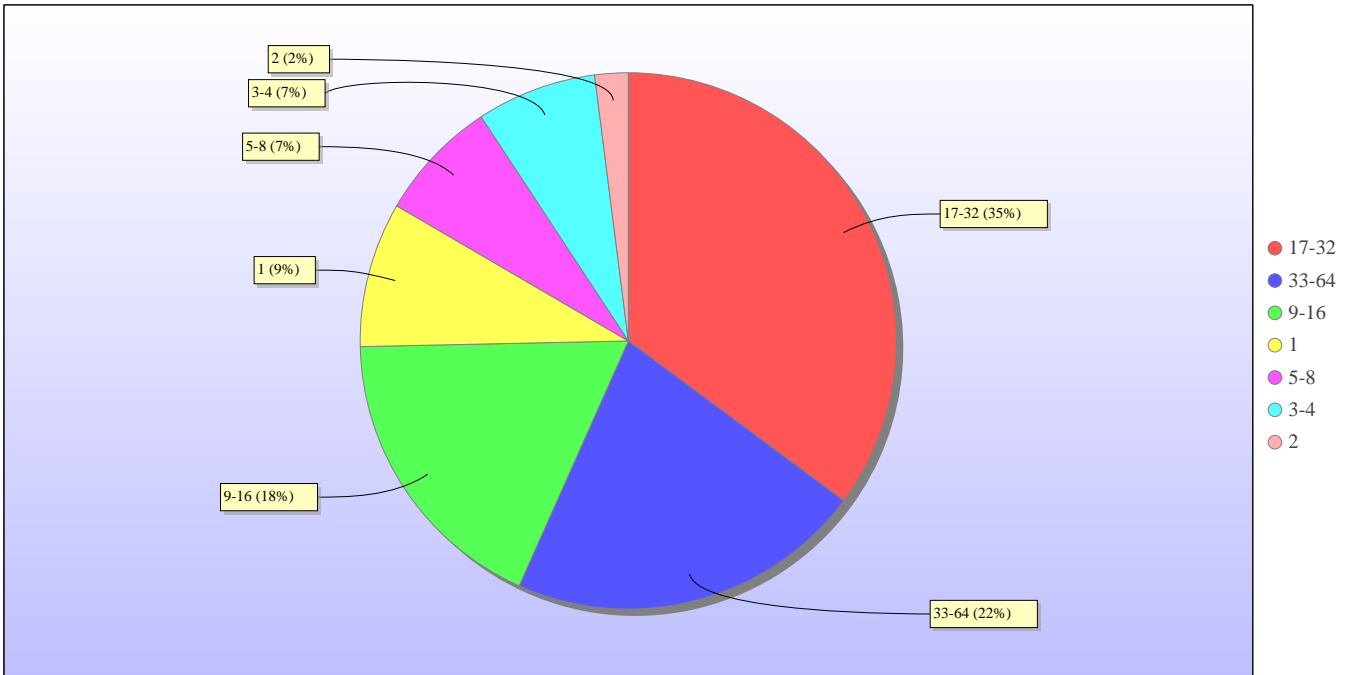
Jobs by Size



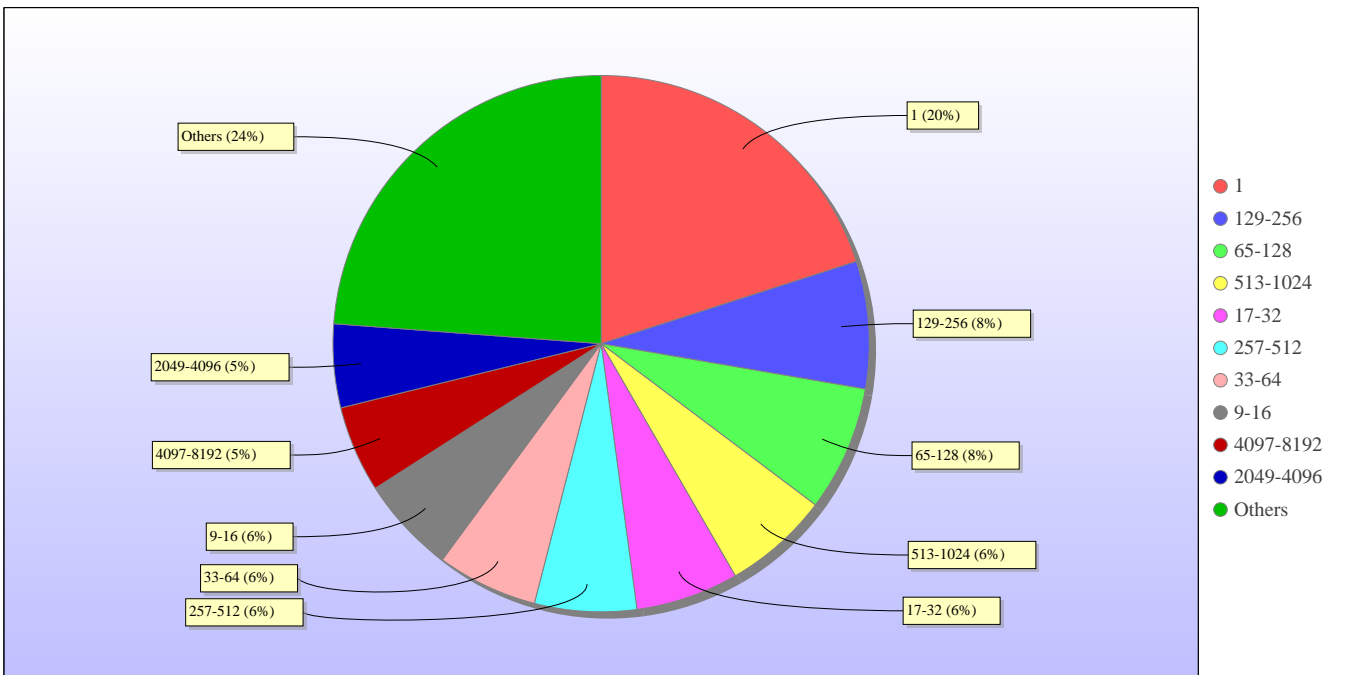
CUs used by Size



Jobs grouped by wall-clock-hours

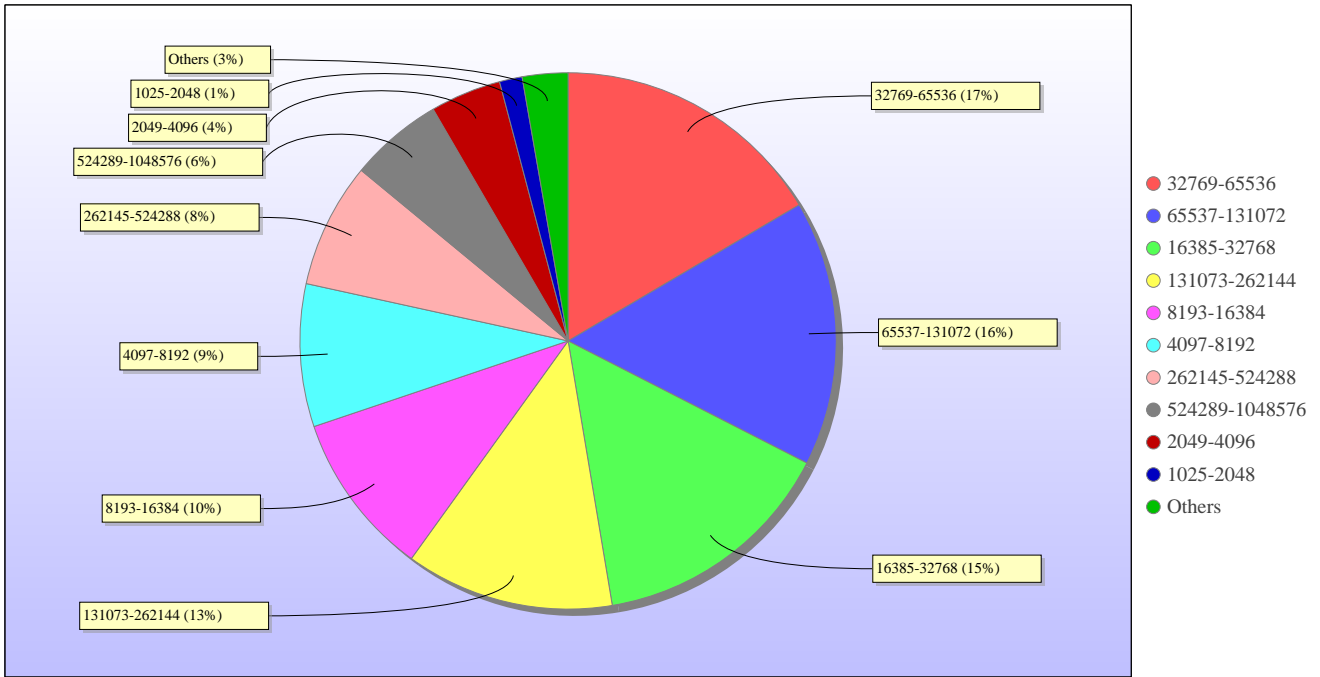


CUs used grouped by wall-clock-hours



Jobs grouped by core-hours



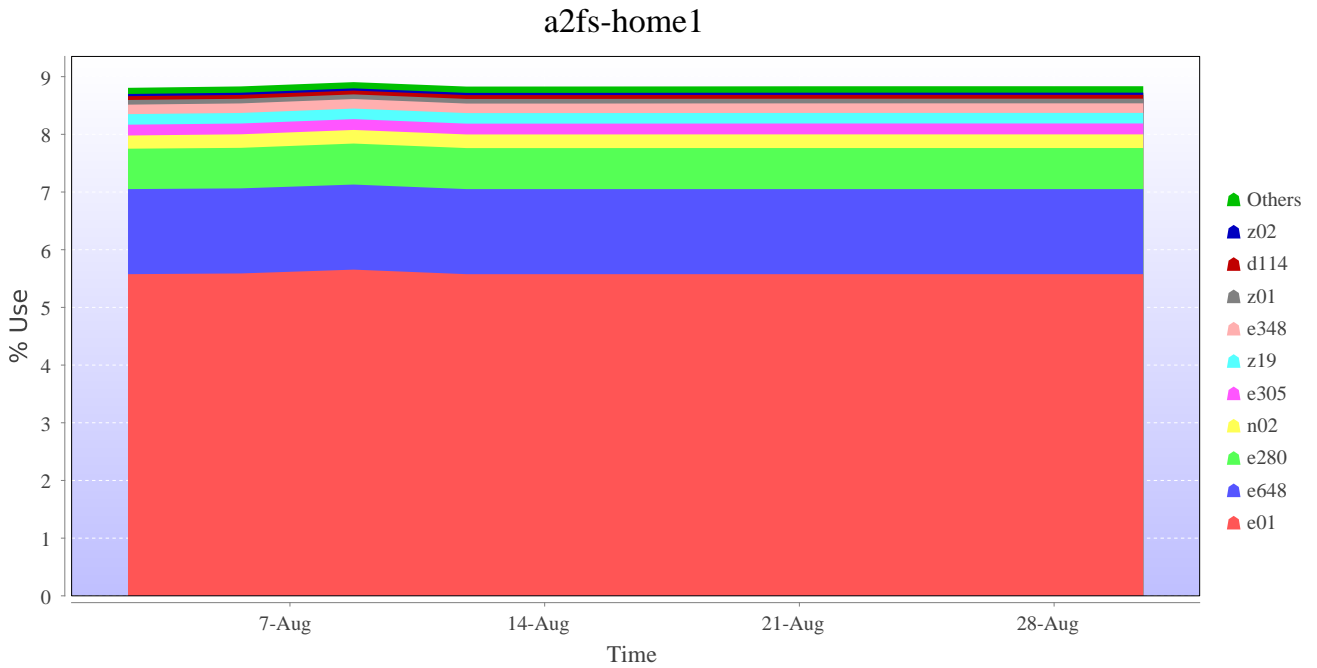


CUs used grouped by core-hours

## Disk usage

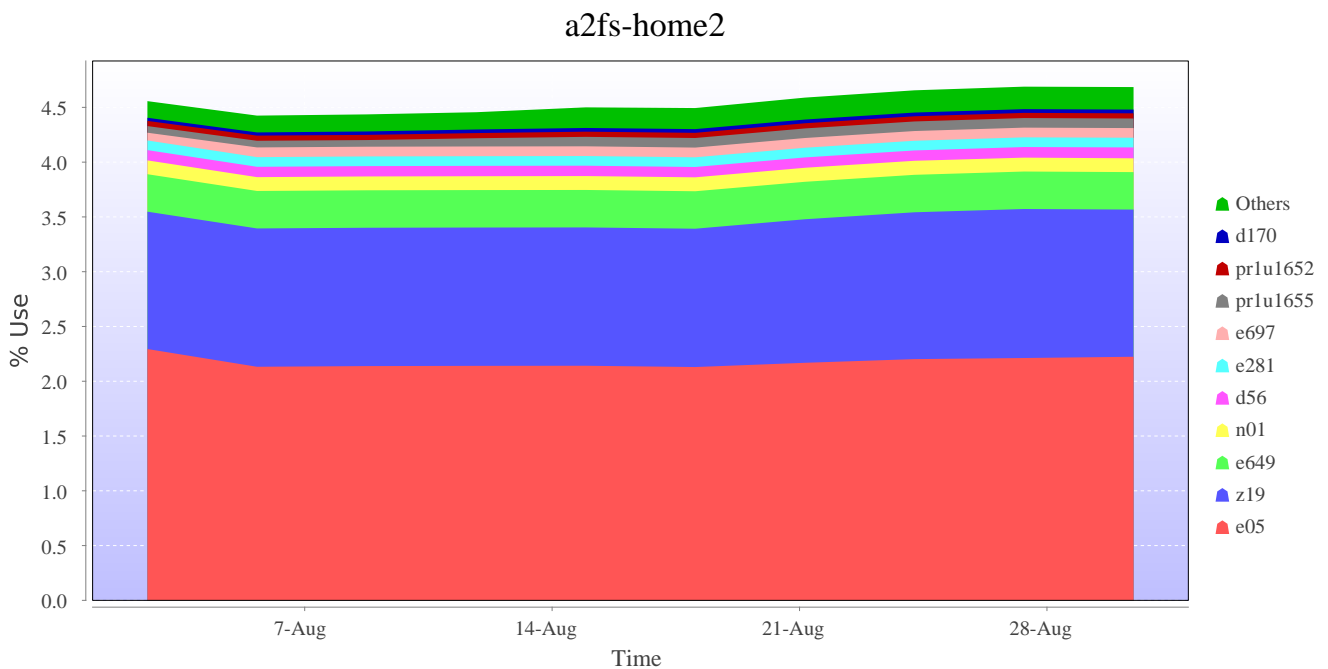
### Disk usage for home ( a2fs-home1 )

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.



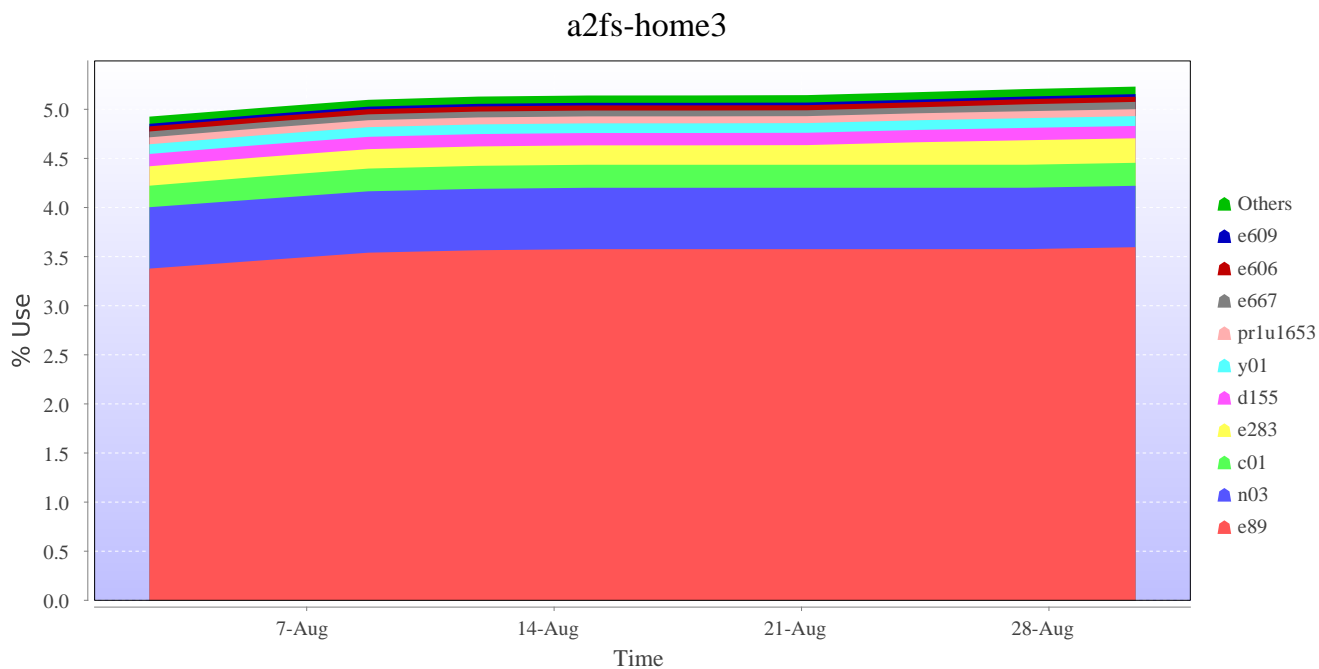
### Disk usage for home ( a2fs-home2 )

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.



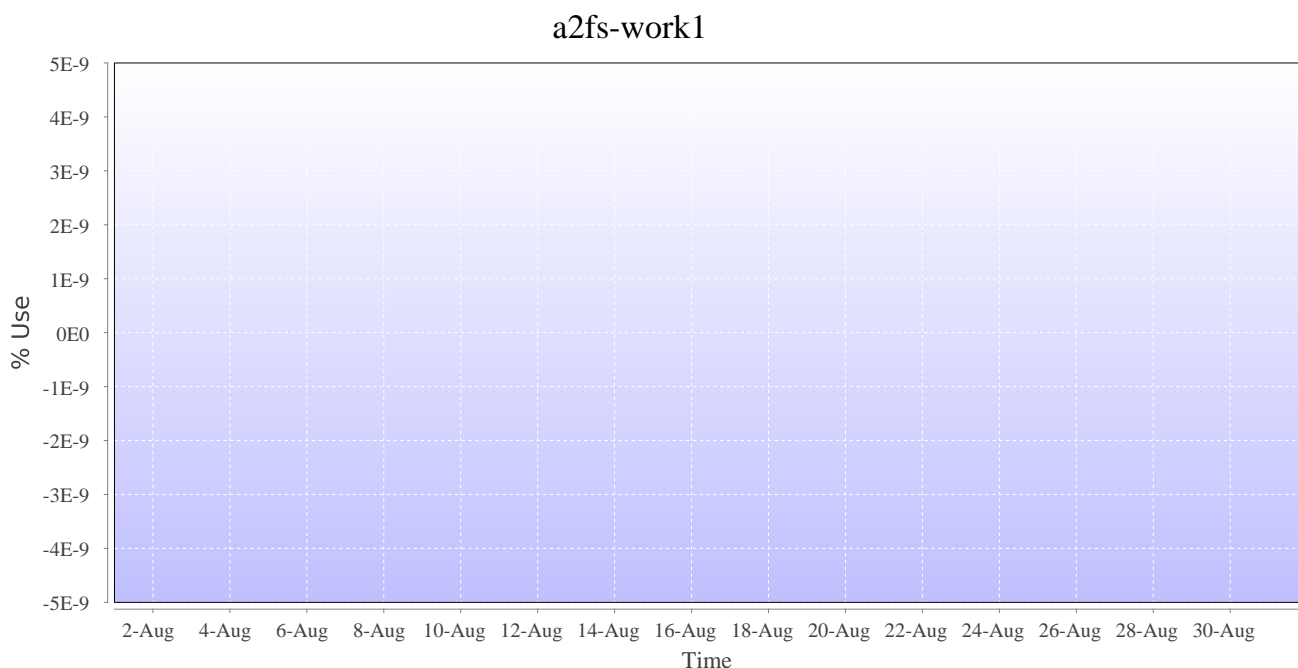
### Disk usage for home ( a2fs-home3 )

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.



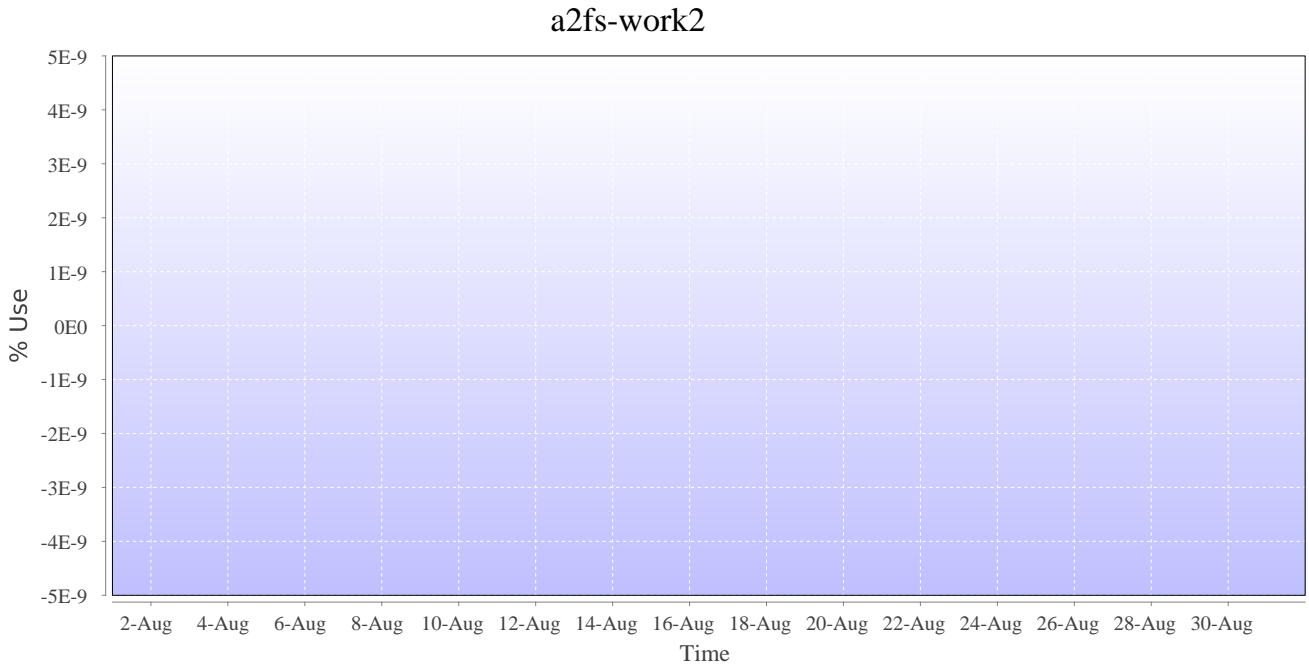
### Disk usage for work ( a2fs-work1 )

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.



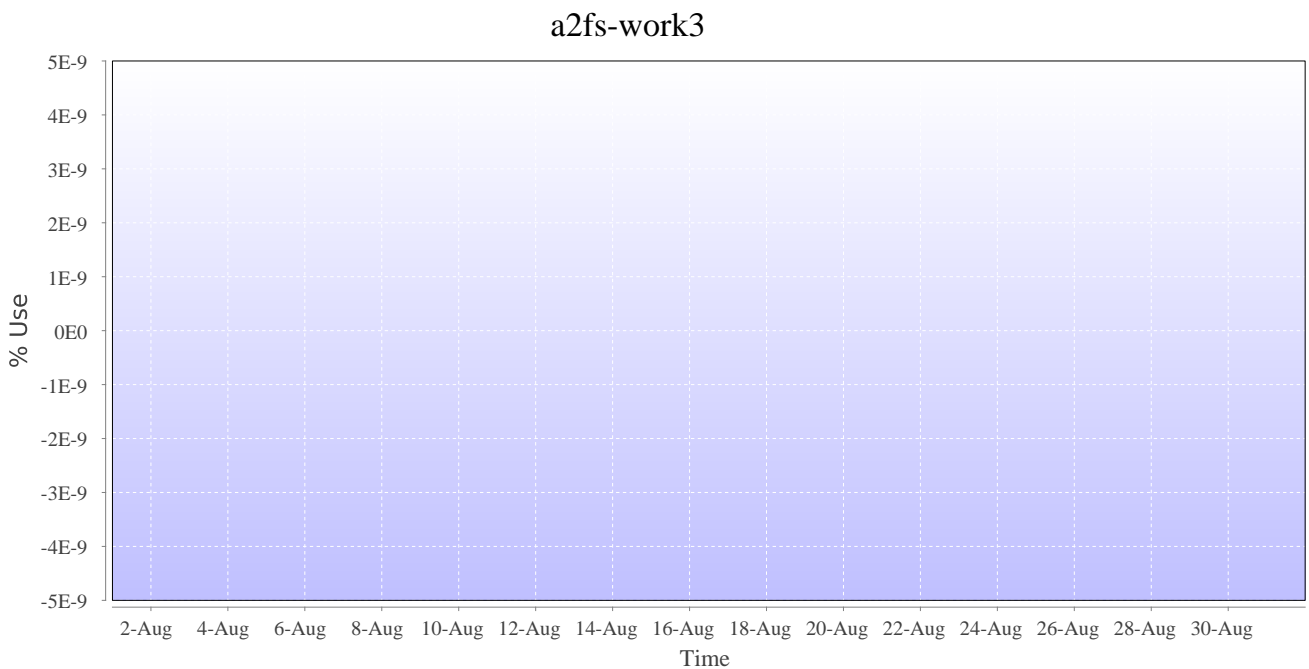
## Disk usage for work ( a2fs-work2 )

This is a plot of Disk Use on a2fs-work2 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-work3 )

This is a plot of Disk Use on a2fs-work3 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.



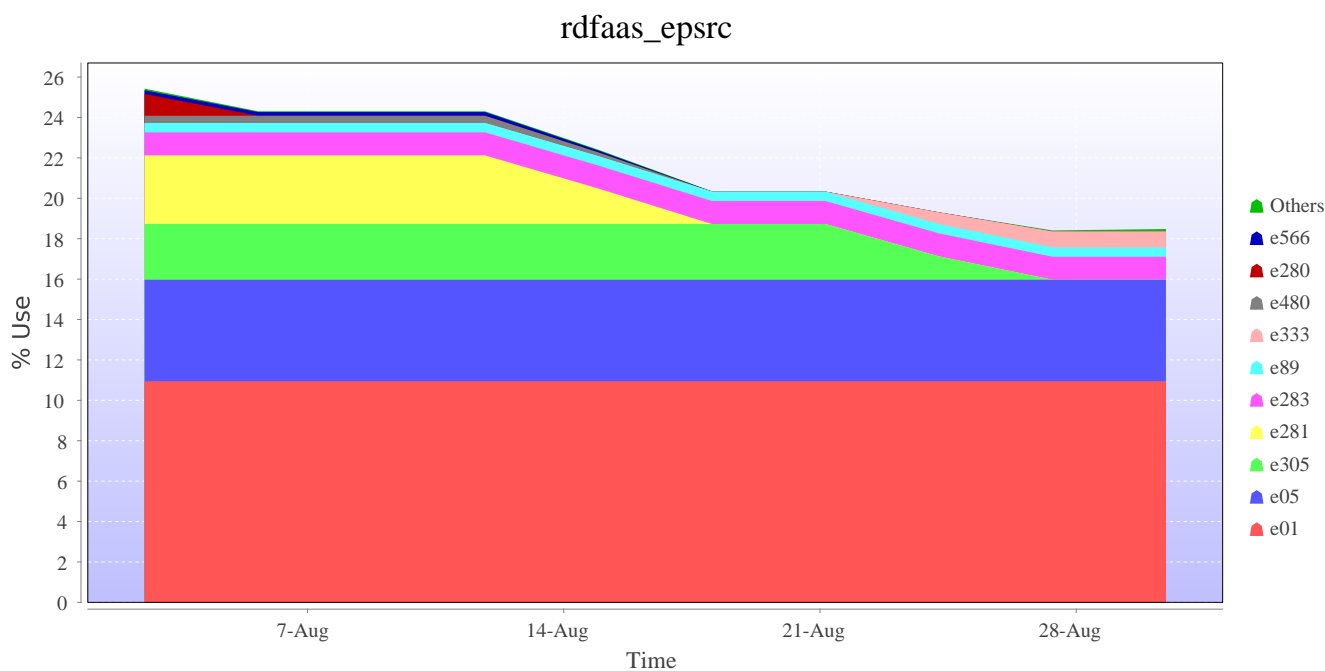
## Disk usage for work-4cab ( archer2-4c-work )

This is a plot of Disk Use on archer2-4c-work 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.

