

# Monthly Reporting

## Report from 01 December 2021 to 31 December 2021

### 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.

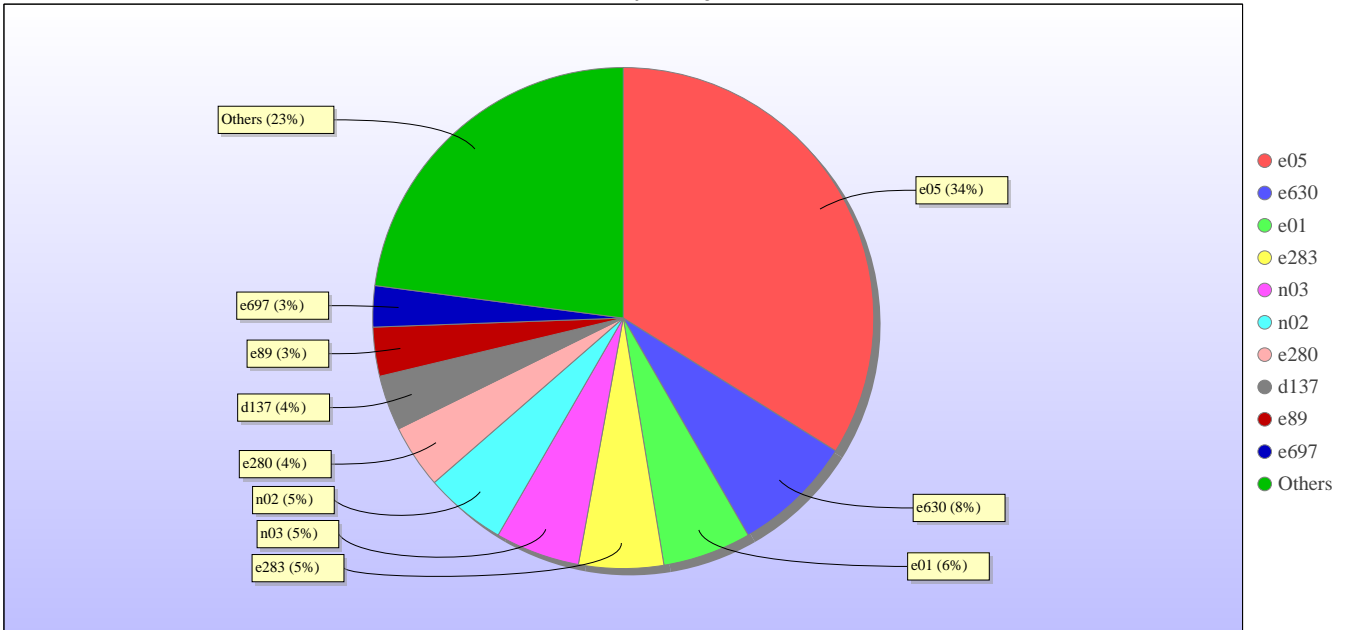
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e683	Pioneer Projects	4	0.0	0.00%	52.4	0.00%	9,377.5	0.22%
e685	Pioneer Projects	380	0.0	0.00%	50,618.0	1.16%	24,914.8	0.57%
e686	Pioneer Projects	25	0.0	0.00%	119.3	0.00%	112.7	0.00%
e687	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	336.9	0.01%
e688	Pioneer Projects	22	0.0	0.00%	443.2	0.01%	1,684.4	0.04%
e689	Pioneer Projects	74	0.0	0.00%	30,005.3	0.69%	33.7	0.00%
e690	Pioneer Projects	36	0.0	0.00%	459.7	0.01%	33.7	0.00%
e691	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	33.7	0.00%
e692	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	58,666.2	1.35%
e693	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	25,409.8	0.58%
E635	Class1a	1,484	0.0	0.00%	59,798.3	1.37%	3,372.3	0.08%
c01	Class1a	935	0.0	0.00%	104,534.4	2.40%	49,302.1	1.13%
e348	Class1a	1,155	0.0	0.00%	52,632.4	1.21%	3,734.1	0.09%
e432	Class1a	3	0.0	0.00%	412.4	0.01%	5,249.5	0.12%
e448	Class1a	180	0.0	0.00%	2,072.1	0.05%	12,105.8	0.28%
e569	Class1a	0	0.0	0.00%	0.0	0.00%	2,586.4	0.06%
e572	Class1a	8	0.0	0.00%	0.0	0.00%	1,997.0	0.05%
e575	Class1a	330	0.0	0.00%	566.3	0.01%	2,924.0	0.07%
e607	Class1a	493	0.0	0.00%	9,838.1	0.23%	10,017.1	0.23%
e609	Class1a	50	0.0	0.00%	6,826.3	0.16%	1,127.1	0.03%
e613	Class1a	0	0.0	0.00%	0.0	0.00%	834.7	0.02%
e630	Class1a	354	0.0	0.00%	316,090.7	7.26%	34,135.9	0.78%
e637	Class1a	0	0.0	0.00%	0.0	0.00%	1,771.7	0.04%
e642	Class1a	0	0.0	0.00%	0.0	0.00%	4,836.5	0.11%
e643	Class1a	54	0.0	0.00%	456.9	0.01%	4,778.9	0.11%
e645	Class1a	0	0.0	0.00%	0.0	0.00%	2,705.9	0.06%
e647	Class1a	72	0.0	0.00%	14,010.6	0.32%	9,354.9	0.22%
e648	Class1a	0	0.0	0.00%	0.0	0.00%	1,613.9	0.04%
e649	Class1a	69	0.0	0.00%	7,124.7	0.16%	5,057.3	0.12%
e651	Class1a	0	0.0	0.00%	0.0	0.00%	1,344.3	0.03%
e655	Class1a	278	0.0	0.00%	43,675.7	1.00%	4,694.0	0.11%
e663	Class1a	0	0.0	0.00%	0.0	0.00%	3,353.6	0.08%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e664	Class1a	0	0.0	0.00%	0.0	0.00%	897.9	0.02%
e667	Class1a	114	0.0	0.00%	10,087.6	0.23%	2,167.2	0.05%
e668	Class1a	0	0.0	0.00%	0.0	0.00%	1,444.8	0.03%
e681	Class1a	51	0.0	0.00%	0.6	0.00%	595.1	0.01%
e682	Class1a	228	0.0	0.00%	1,956.7	0.04%	2,454.3	0.06%
e684	Class1a	3	0.0	0.00%	0.3	0.00%	755.8	0.02%
e694	Class1a	1	0.0	0.00%	0.0	0.00%	1,895.4	0.04%
e696	Class1a	14	0.0	0.00%	36.3	0.00%	185.0	0.00%
e697	Class1a	389	0.0	0.00%	107,536.8	2.47%	2,935.1	0.07%
e700	Class1a	0	0.0	0.00%	0.0	0.00%	409.1	0.01%
e701	Class1a	0	0.0	0.00%	0.0	0.00%	2,070.5	0.05%
e702	Class1a	119	0.0	0.00%	5,416.7	0.12%	1,000.2	0.02%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	127.0	0.00%
e707	Class1a	0	0.0	0.00%	0.0	0.00%	4,605.8	0.11%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	1,479.4	0.03%
e710	Class1a	0	0.0	0.00%	0.0	0.00%	902.9	0.02%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	17,131.0	0.39%
e720	Class1a	21	0.0	0.00%	192.6	0.00%	7,284.1	0.17%
e721	Class1a	0	0.0	0.00%	0.0	0.00%	519.3	0.01%
e724	Class1a	0	0.0	0.00%	0.0	0.00%	2,583.3	0.06%
e6337	Class1a	0	0.0	0.00%	0.0	0.00%	2,663.3	0.06%
ec110	Class1a	0	0.0	0.00%	0.0	0.00%	1.1	0.00%
e01	Consortia	2,491	0.0	0.00%	231,526.8	5.32%	51,731.5	1.19%
e05	Consortia	24,972	0.0	0.00%	1,374,766.2	31.60%	197,471.4	4.54%
e89	Consortia	4,678	0.0	0.00%	128,110.0	2.94%	157,342.4	3.62%
e280	Consortia	1,308	0.0	0.00%	166,670.4	3.83%	26,708.4	0.61%
e281	Consortia	906	0.0	0.00%	36,842.0	0.85%	11,087.1	0.25%
e283	Consortia	7,949	0.0	0.00%	221,922.4	5.10%	12,453.1	0.29%
e305	Consortia	925	0.0	0.00%	60,945.4	1.40%	21,431.9	0.49%
e585	Consortia	524	0.0	0.00%	31,680.6	0.73%	44,445.0	1.02%
e669	Pump Priming	0	0.0	0.00%	0.0	0.00%	81.0	0.00%
e698	Pump Priming	0	0.0	0.00%	0.0	0.00%	101.2	0.00%
e703	Pump Priming	0	0.0	0.00%	0.0	0.00%	115.9	0.00%
e704	Pump Priming	5	0.0	0.00%	0.1	0.00%	72.5	0.00%
e709	Pump Priming	0	0.0	0.00%	0.0	0.00%	115.3	0.00%
e711	Pump Priming	0	0.0	0.00%	0.0	0.00%	133.4	0.00%
e718	Pump Priming	26	0.0	0.00%	7.3	0.00%	130.1	0.00%
e719	Pump Priming	0	0.0	0.00%	0.0	0.00%	137.0	0.00%
e722	Pump Priming	0	0.0	0.00%	0.0	0.00%	136.3	0.00%
e725	Pump Priming	0	0.0	0.00%	0.0	0.00%	137.0	0.00%
e726	Pump Priming	5	0.0	0.00%	75.1	0.00%	137.0	0.00%
e727	Pump Priming	41	0.0	0.00%	186.3	0.00%	8.6	0.00%
e729	Pump Priming	332	0.0	0.00%	2.8	0.00%	76.0	0.00%
ta021	Training	0	0.0	0.00%	0.0	0.00%	63.9	0.00%
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%	84.9	0.00%
ta037	Training	0	0.0	0.00%	0.0	0.00%	63.6	0.00%
ta038	Training	0	0.0	0.00%	0.0	0.00%	63.6	0.00%
ta043	Training	0	0.0	0.00%	0.0	0.00%	295.1	0.01%
e507	Access to HPC	184	0.0	0.00%	2,121.0	0.05%	2,355.6	0.05%
e596	Access to HPC	0	0.0	0.00%	0.0	0.00%	649.6	0.01%
e632	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,869.1	0.11%
e672	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,293.9	0.05%
e673	Access to HPC	2	0.0	0.00%	0.0	0.00%	4,508.4	0.10%
e674	Access to HPC	166	0.0	0.00%	220.4	0.01%	2,195.0	0.05%
e675	Access to HPC	898	0.0	0.00%	70,601.8	1.62%	11,902.2	0.27%
e676	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,452.4	0.08%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	7.3	0.00%
e678	Access to HPC	0	0.0	0.00%	0.0	0.00%	811.5	0.02%
e679	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,246.1	0.07%
e680	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,381.3	0.08%
e705	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,716.0	0.09%
e730	Access to HPC	139	0.0	0.00%	2.9	0.00%	10.0	0.00%

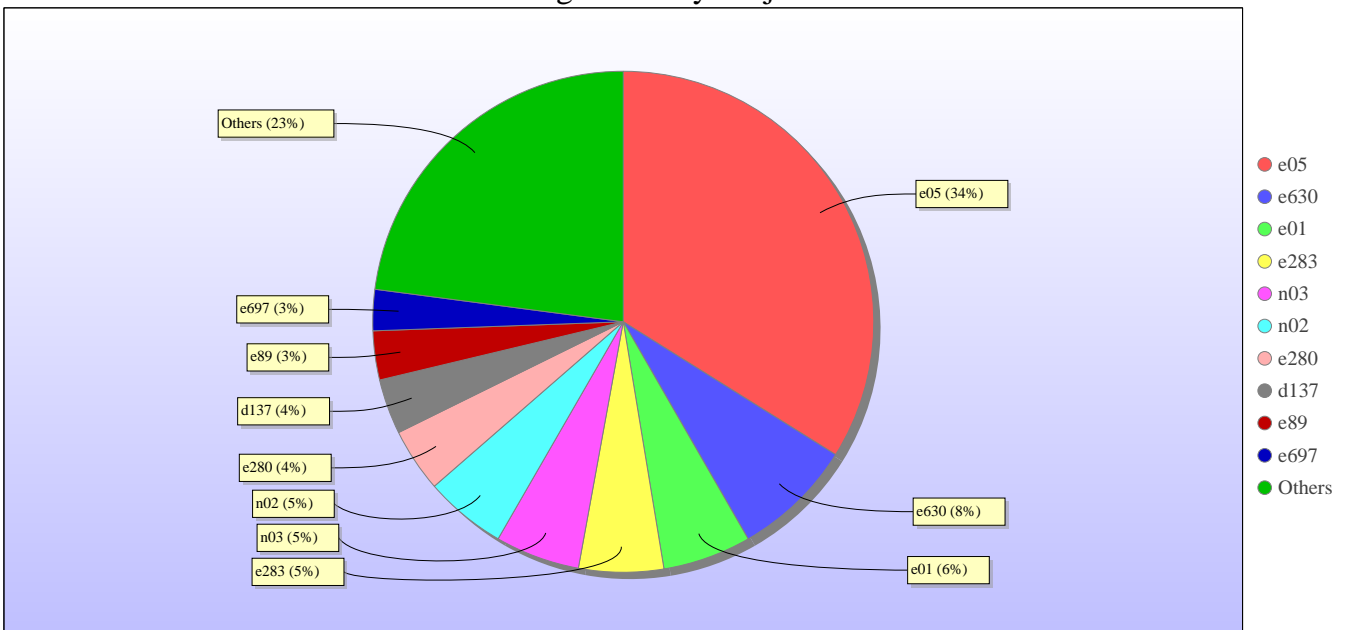
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e731	Access to HPC	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
e732	Access to HPC	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
e733	Access to HPC	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
e734	Access to HPC	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
e735	Access to HPC	0	0.0	0.00%	0.0	0.00%	10.0	0.00%
e736	Access to HPC	519	0.0	0.00%	45,923.7	1.06%	10.0	0.00%
<b>EPSRC Total</b>		<b>53,016</b>	<b>0.0</b>	<b>0.00%</b>	<b>3,196,569.5</b>	<b>73.47%</b>	<b>909,753.6</b>	<b>20.91%</b>
n01	Consortia	4,035	0.0	0.00%	59,129.9	1.36%	153,980.8	3.54%
n02	Consortia	15,534	0.0	0.00%	213,940.6	4.92%	439,265.8	10.10%
n03	Consortia	1,812	0.0	0.00%	221,242.9	5.08%	112,364.4	2.58%
<b>NERC Total</b>		<b>21,381</b>	<b>0.0</b>	<b>0.00%</b>	<b>494,313.3</b>	<b>11.36%</b>	<b>705,611.0</b>	<b>16.22%</b>
e621	Class1a	725	0.0	0.00%	38,659.1	0.89%	3,912.8	0.09%
<b>BBSRC Total</b>		<b>725</b>	<b>0.0</b>	<b>0.00%</b>	<b>38,659.1</b>	<b>0.89%</b>	<b>3,912.8</b>	<b>0.09%</b>
pr1u0001	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	8.6	0.00%
pr1u1652	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,810.4	0.04%
pr1u1653	DECI: EXEC	47	0.0	0.00%	15,257.6	0.35%	5,751.6	0.13%
pr1u1654	DECI: EXEC	15	0.0	0.00%	401.2	0.01%	675.1	0.02%
pr1u1656	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	3,219.1	0.07%
pr1u1657	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	532.2	0.01%
pr1u1659	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,581.7	0.04%
pr1u1751	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,621.7	0.04%
pr1u1752	DECI: EXEC	53	0.0	0.00%	20,075.1	0.46%	1,927.1	0.04%
pr1u1753	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	2,289.4	0.05%
pr1u1754	DECI: EXEC	407	0.0	0.00%	2,486.0	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	48	0.0	0.00%	423.9	0.01%	4,089.0	0.09%
pr1u1757	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	916.8	0.02%
pr1u1758	DECI: EXEC	63	0.0	0.00%	2,595.3	0.06%	715.4	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	26	0.0	0.00%	648.1	0.01%	1,702.7	0.04%
pr1u1707	DECI: HOME	0	0.0	0.00%	0.0	0.00%	1,475.4	0.03%
pr1ush01	DECI: HOME	1,064	0.0	0.00%	5,282.5	0.12%	471.2	0.01%
pr1ushpc	DECI: HOME	0	0.0	0.00%	0.0	0.00%	82.9	0.00%
<b>PRACE Total</b>		<b>1,723</b>	<b>0.0</b>	<b>0.00%</b>	<b>47,169.6</b>	<b>1.08%</b>	<b>35,373.3</b>	<b>0.81%</b>
ecseaa06	eCSE	0	0.0	0.00%	0.0	0.00%	184.4	0.00%
ecseaa09	eCSE	0	0.0	0.00%	0.0	0.00%	92.2	0.00%
ecseaa11	eCSE	0	0.0	0.00%	0.0	0.00%	78.6	0.00%
ecseaa12	eCSE	0	0.0	0.00%	0.0	0.00%	67.9	0.00%
ecseaa13	eCSE	0	0.0	0.00%	0.0	0.00%	184.4	0.00%
ecseaa14	eCSE	0	0.0	0.00%	0.0	0.00%	237.3	0.01%
ecseaa16	eCSE	0	0.0	0.00%	0.0	0.00%	236.1	0.01%
ecseaa19	eCSE	77	0.0	0.00%	267.4	0.01%	102.9	0.00%
ecseaa21	eCSE	0	0.0	0.00%	0.0	0.00%	68.6	0.00%
ecseaa22	eCSE	0	0.0	0.00%	0.0	0.00%	197.8	0.00%
ecseaa26	eCSE	124	0.0	0.00%	590.8	0.01%	37.2	0.00%
ecseaa28	eCSE	118	0.0	0.00%	60.1	0.00%	80.2	0.00%
ecseab02	eCSE	0	0.0	0.00%	0.0	0.00%	93.1	0.00%
ecseab03	eCSE	0	0.0	0.00%	0.0	0.00%	150.3	0.00%
ecseab04	eCSE	0	0.0	0.00%	0.0	0.00%	56.4	0.00%
ecseab06	eCSE	164	0.0	0.00%	75.8	0.00%	16.4	0.00%
ecseab11	eCSE	0	0.0	0.00%	0.0	0.00%	19.0	0.00%
ecseab12	eCSE	85	0.0	0.00%	4,409.2	0.10%	103.2	0.00%
ecseab13	eCSE	3	0.0	0.00%	0.0	0.00%	49.5	0.00%
ecseac02	eCSE	145	0.0	0.00%	679.7	0.02%	56.9	0.00%
ecseac04	eCSE	5	0.0	0.00%	0.1	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%
ecseac10	eCSE	0	0.0	0.00%	0.0	0.00%	113.1	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%
ecsead01	eCSE	0	0.0	0.00%	0.0	0.00%	98.2	0.00%
ecsead05	eCSE	0	0.0	0.00%	0.0	0.00%	93.6	0.00%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecsead06	eCSE	0	0.0	0.00%	0.0	0.00%	73.9	0.00%
ecsead07	eCSE	0	0.0	0.00%	0.0	0.00%	66.0	0.00%
ecsead08	eCSE	119	0.0	0.00%	989.6	0.02%	78.0	0.00%
<b>eCSE Total</b>		<b>840</b>	<b>0.0</b>	<b>0.00%</b>	<b>7,072.7</b>	<b>0.16%</b>	<b>3,028.6</b>	<b>0.07%</b>
d35	Research	57	0.0	0.00%	3.1	0.00%	144.2	0.00%
d56	Research	462	0.0	0.00%	18,333.7	0.42%	6,198.8	0.14%
d114	Research	409	0.0	0.00%	13,211.2	0.30%	15,693.2	0.36%
d118	Research	56	0.0	0.00%	66.7	0.00%	792.7	0.02%
d137	Research	281	0.0	0.00%	144,081.4	3.31%	1,667.6	0.04%
d142	Research	212	0.0	0.00%	15,074.9	0.35%	1,883.8	0.04%
d155	Research	1,148	0.0	0.00%	56,980.9	1.31%	9,025.3	0.21%
d175	Research	2	0.0	0.00%	0.1	0.00%	1,414.1	0.03%
d178	Research	0	0.0	0.00%	0.0	0.00%	4,244.2	0.10%
d179	Research	106	0.0	0.00%	3,396.5	0.08%	3,426.2	0.08%
d428	Research	0	0.0	0.00%	0.0	0.00%	69.1	0.00%
d429	Research	88	0.0	0.00%	6,732.9	0.15%	9,417.7	0.22%
d432	Industrial	0	0.0	0.00%	0.0	0.00%	1,246.3	0.03%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	179.1	0.00%
i18	Industrial	13	0.0	0.00%	28.9	0.00%	2,351.2	0.05%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	2,127.2	0.05%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	531.8	0.01%
i239	Industrial	0	0.0	0.00%	0.0	0.00%	1,791.5	0.04%
x06	Industrial	0	0.0	0.00%	0.0	0.00%	1.1	0.00%
d174	Training	0	0.0	0.00%	0.0	0.00%	506.5	0.01%
d176	Training	80	0.0	0.00%	510.4	0.01%	31.6	0.00%
ta044	Training	0	0.0	0.00%	0.0	0.00%	137.8	0.00%
ta045	Training	89	0.0	0.00%	40.0	0.00%	63.3	0.00%
y01	Service	6	0.0	0.00%	0.4	0.00%	58.8	0.00%
y02	Service	125	0.0	0.00%	1,971.9	0.05%	47.8	0.00%
y23	Service	32	0.0	0.00%	0.2	0.00%	55.6	0.00%
z19	Service	913	0.0	0.00%	11,473.3	0.26%	25,628.7	0.59%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.6	0.00%
sc004	UoE Access	0	0.0	0.00%	0.0	0.00%	11.4	0.00%
<b>DirectorsTime Total</b>		<b>4,079</b>	<b>0.0</b>	<b>0.00%</b>	<b>271,906.4</b>	<b>6.25%</b>	<b>88,746.7</b>	<b>2.04%</b>
y07	Service	0	0.0	0.00%	0.0	0.00%	169.9	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	78.3	0.00%
z02	Service	4	0.0	0.00%	0.1	0.00%	373.0	0.01%
<b>CSE Total</b>		<b>4</b>	<b>0.0</b>	<b>0.00%</b>	<b>0.1</b>	<b>0.00%</b>	<b>621.2</b>	<b>0.01%</b>
<b>Total</b>		<b>81,768</b>	<b>0.0</b>	<b>0.00%</b>	<b>4,055,690.8</b>	<b>93.21%</b>	<b>1,747,047.1</b>	<b>40.15%</b>

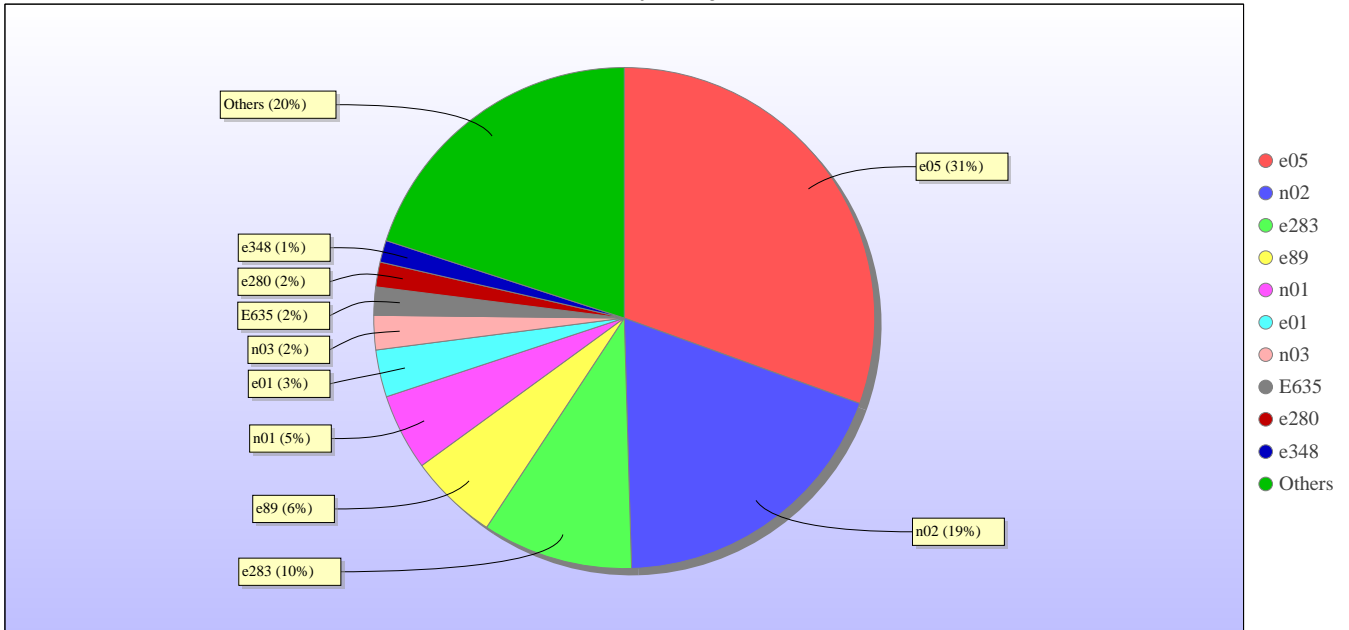
### Use by Project



### Uncharged Use by Project



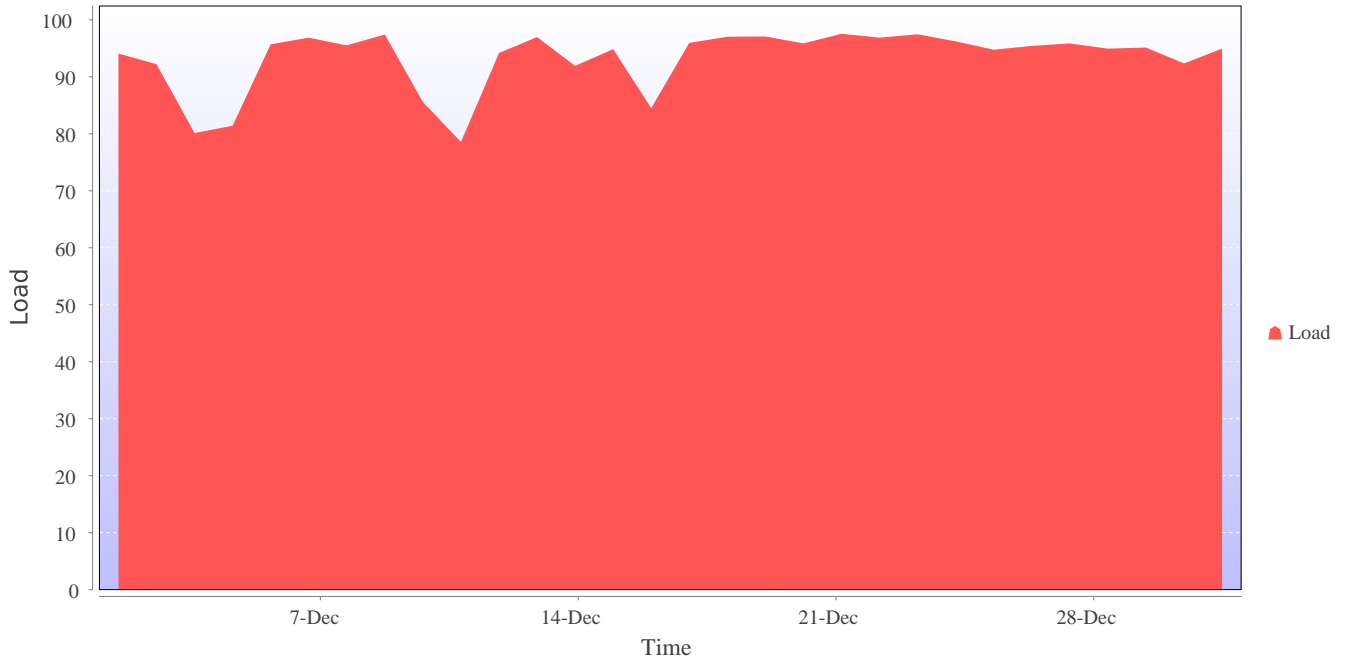
### Jobs by Project



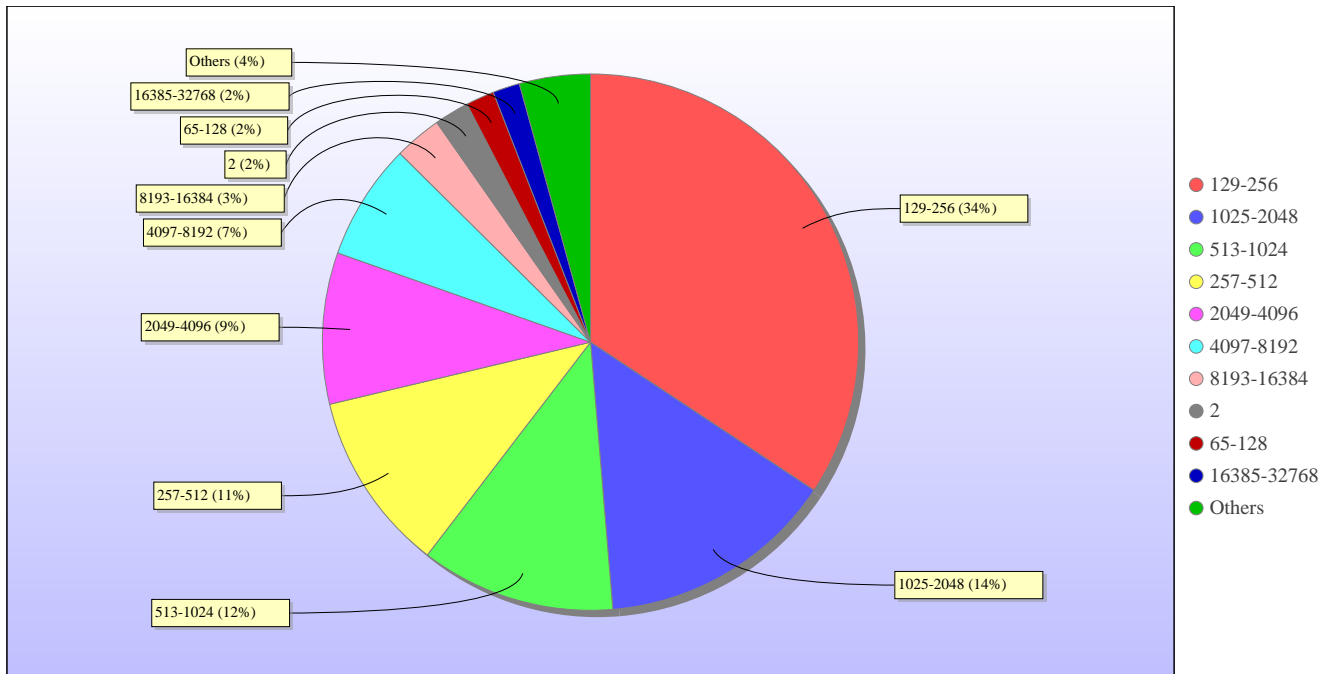
### CUs (by Size)

Size	CUs	Number of Jobs
1	0	357
2	0	1,715
3-4	0	43
5-8	0	554
9-16	0	137
17-32	0	782
33-64	0	103
65-128	0	1,400
129-256	0	28,057
257-512	0	8,886
513-1024	0	9,599
1025-2048	0	11,742
2049-4096	0	7,456
4097-8192	0	5,742
8193-16384	0	2,341
16385-32768	0	1,333
32769-65536	0	849
65537-131072	0	413
131073-262144	0	202
262145-524288	0	49
524289-1048576	0	8

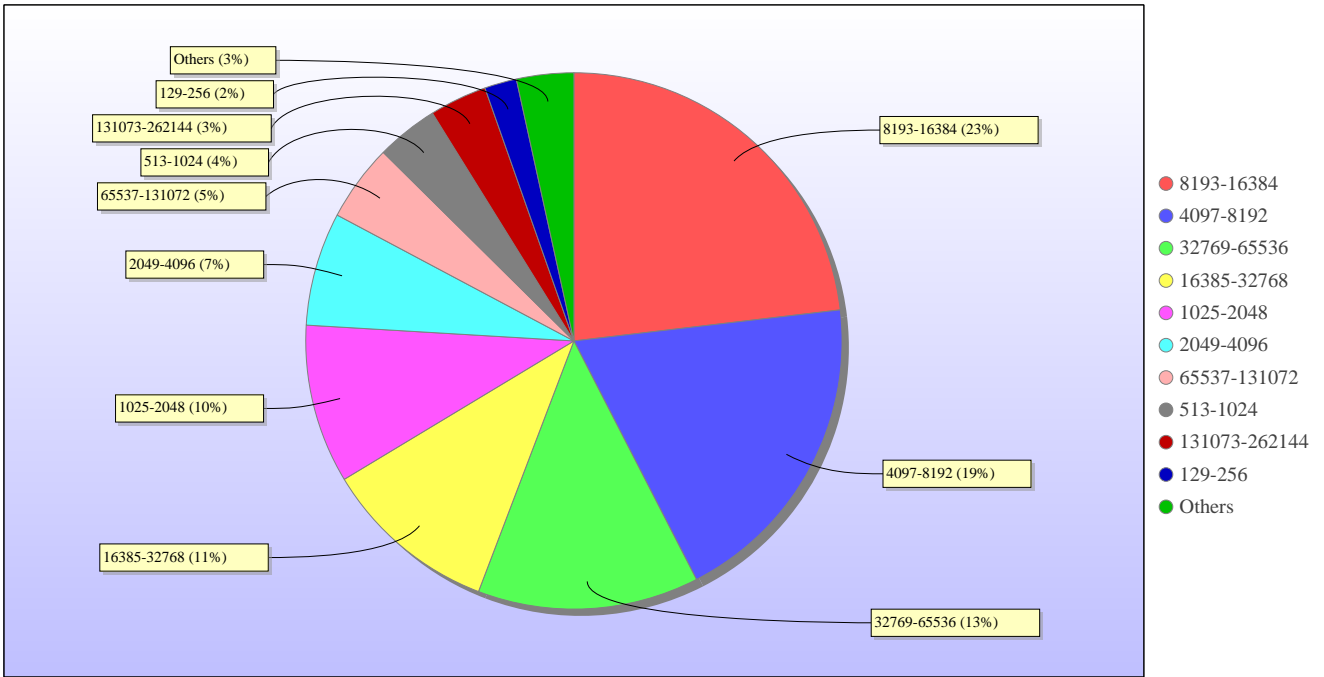
## Load plots



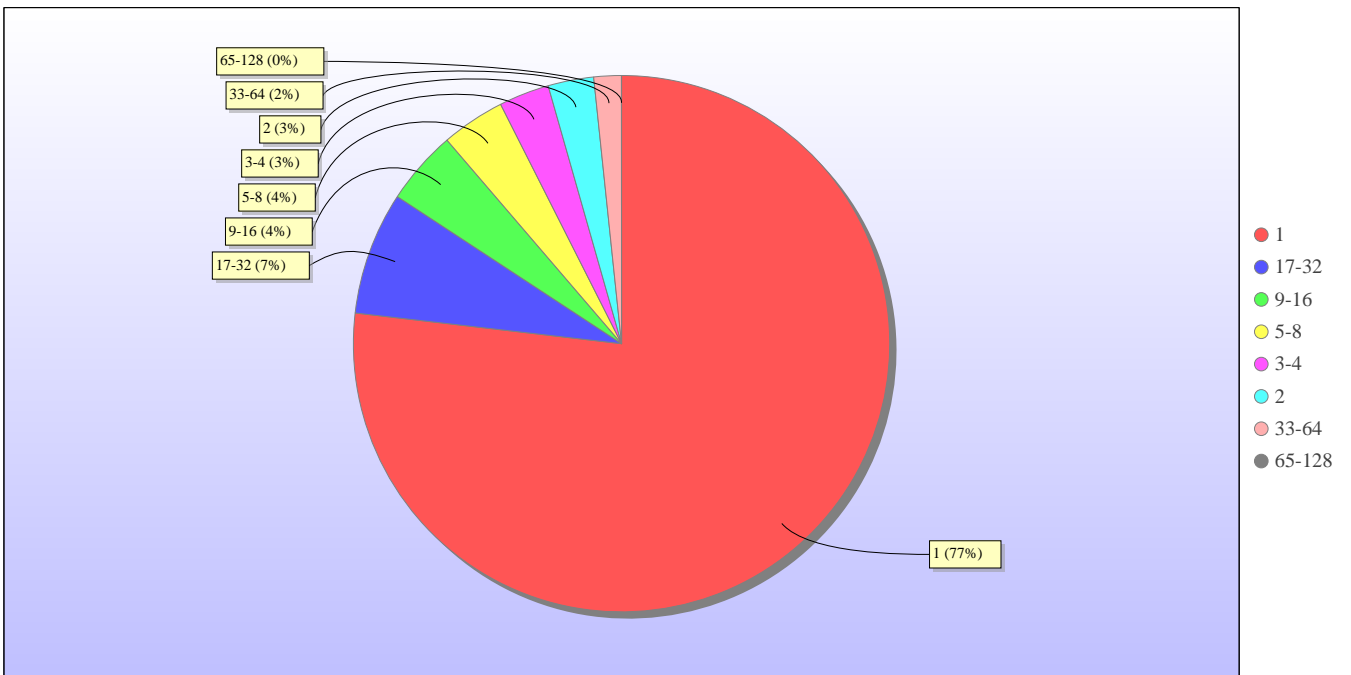
Percentage load on machine



Jobs by Size

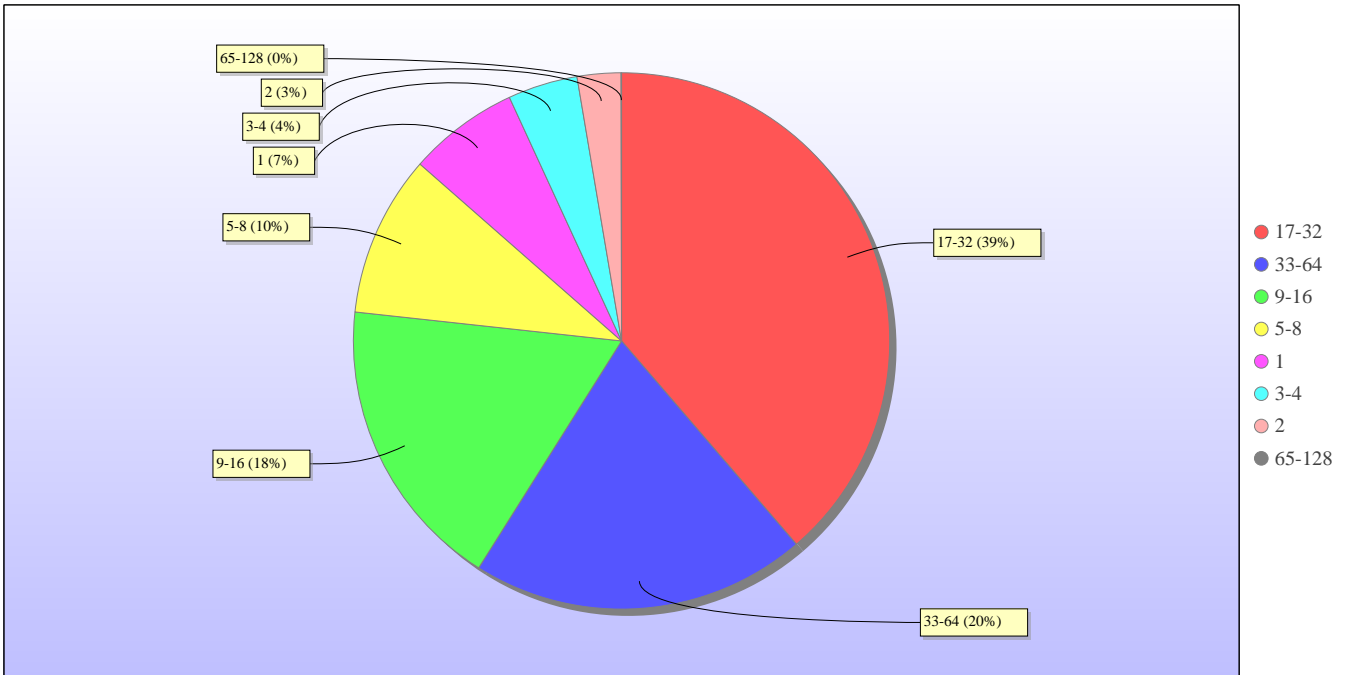


CUs used by Size

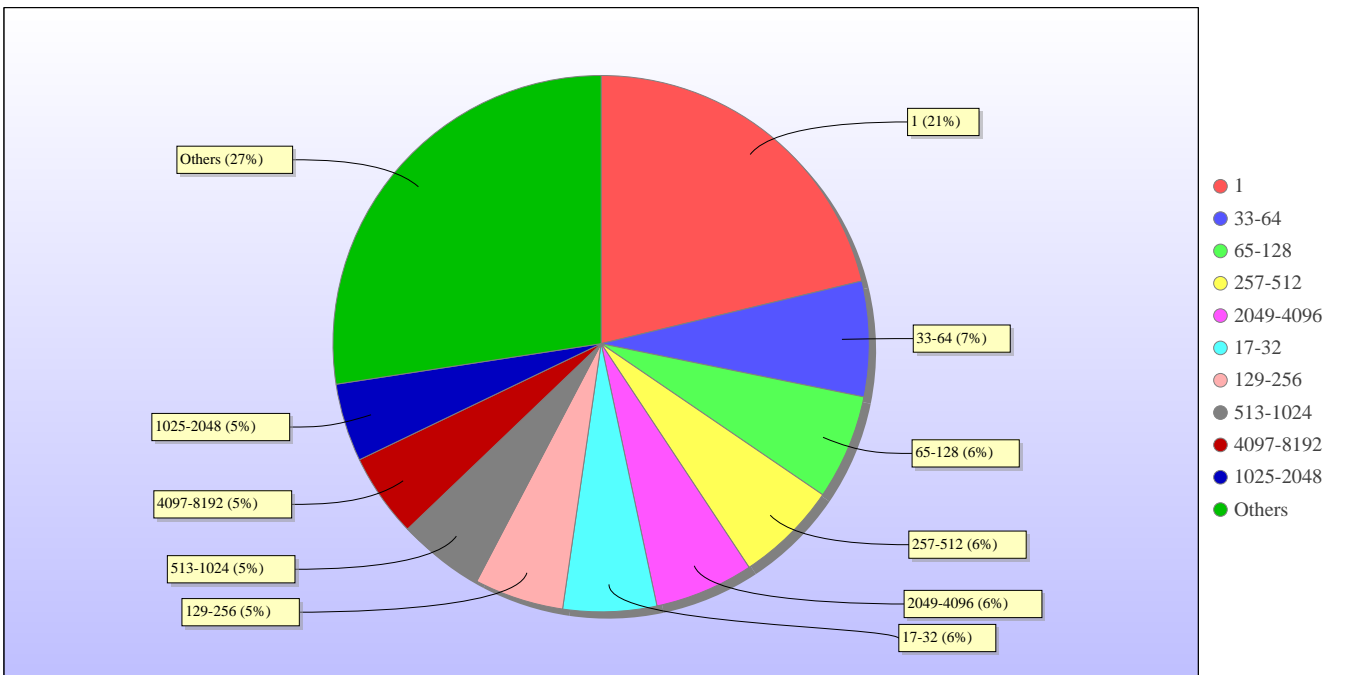


Jobs grouped by wall-clock-hours

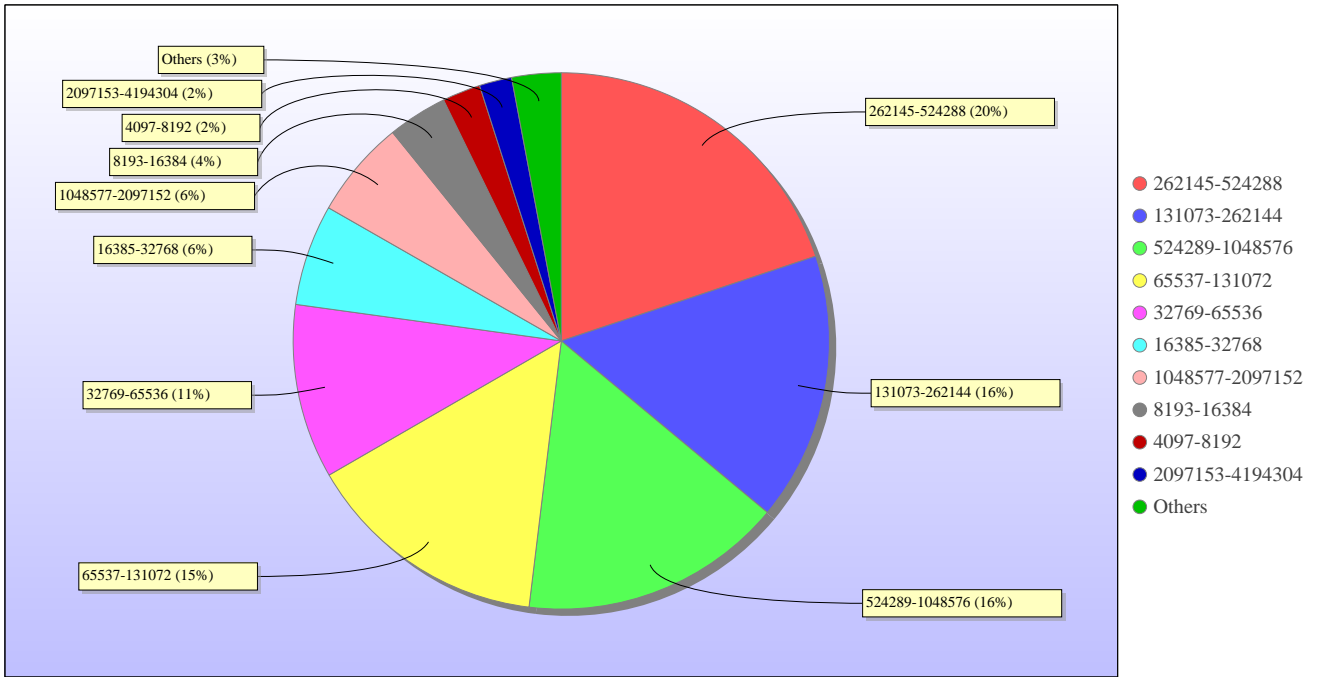




CU used grouped by wall-clock-hours



Jobs grouped by core-hours

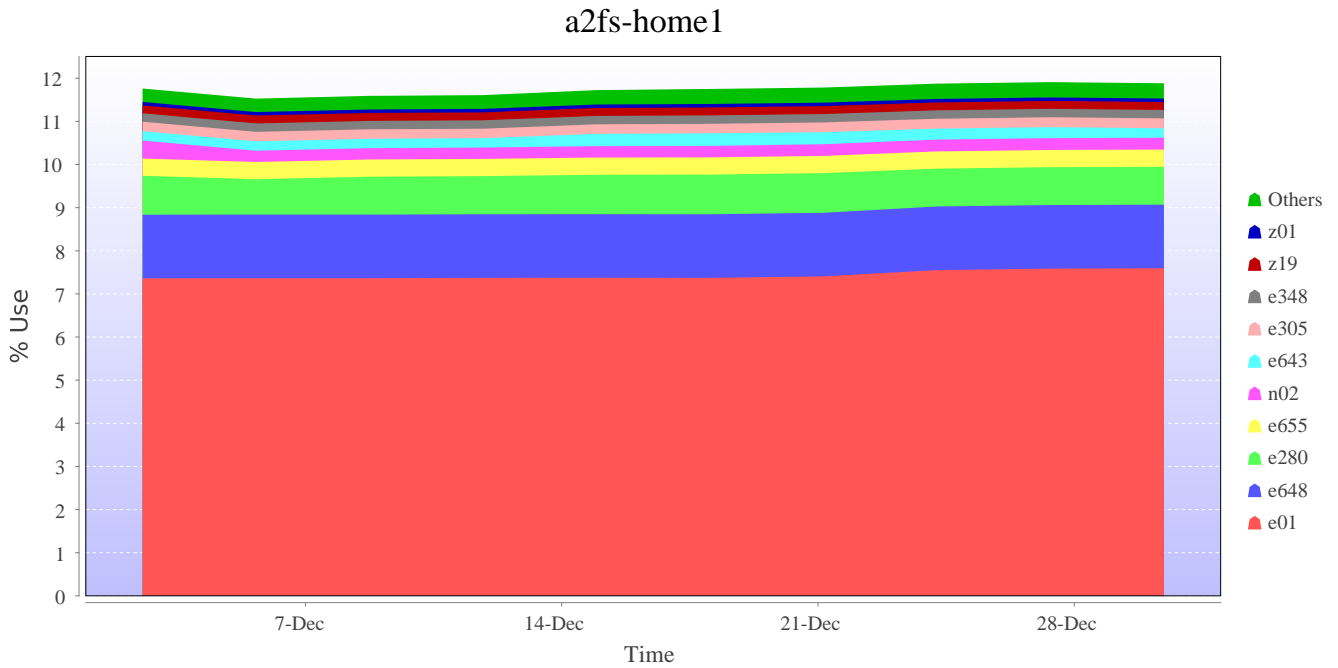


CUs used grouped by core-hours

## Disk usage

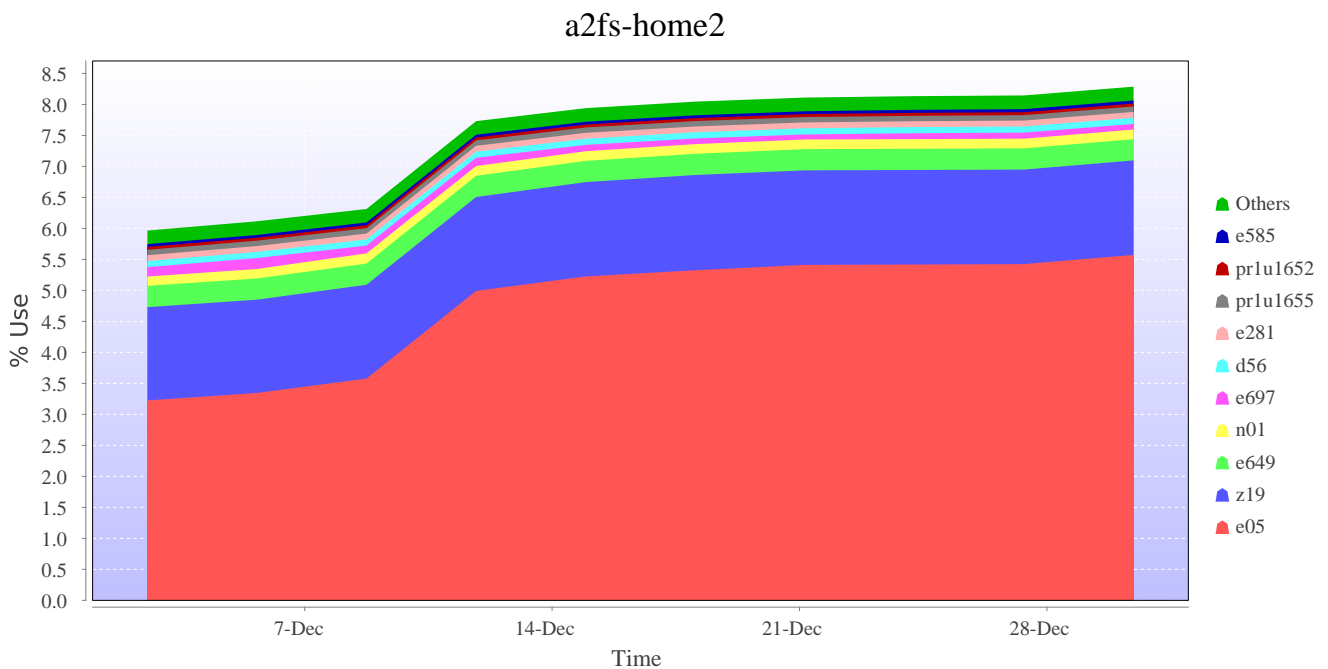
### Disk usage for home ( a2fs-home1 )

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.



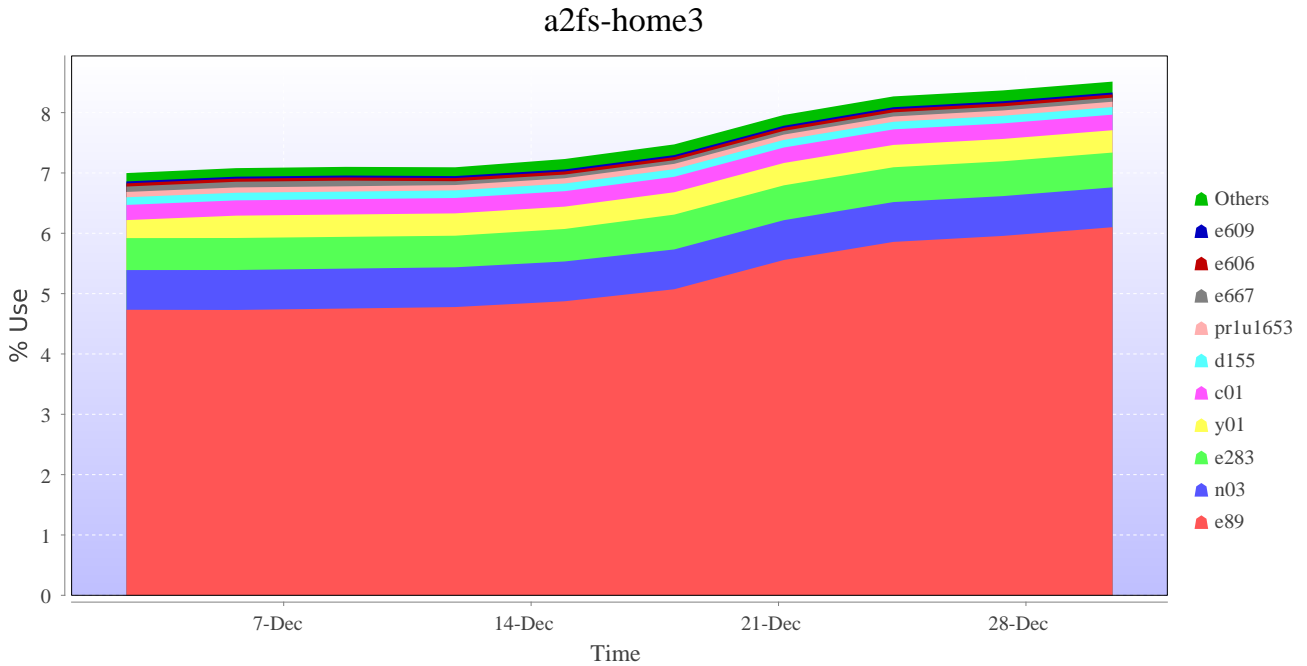
### Disk usage for home ( a2fs-home2 )

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.



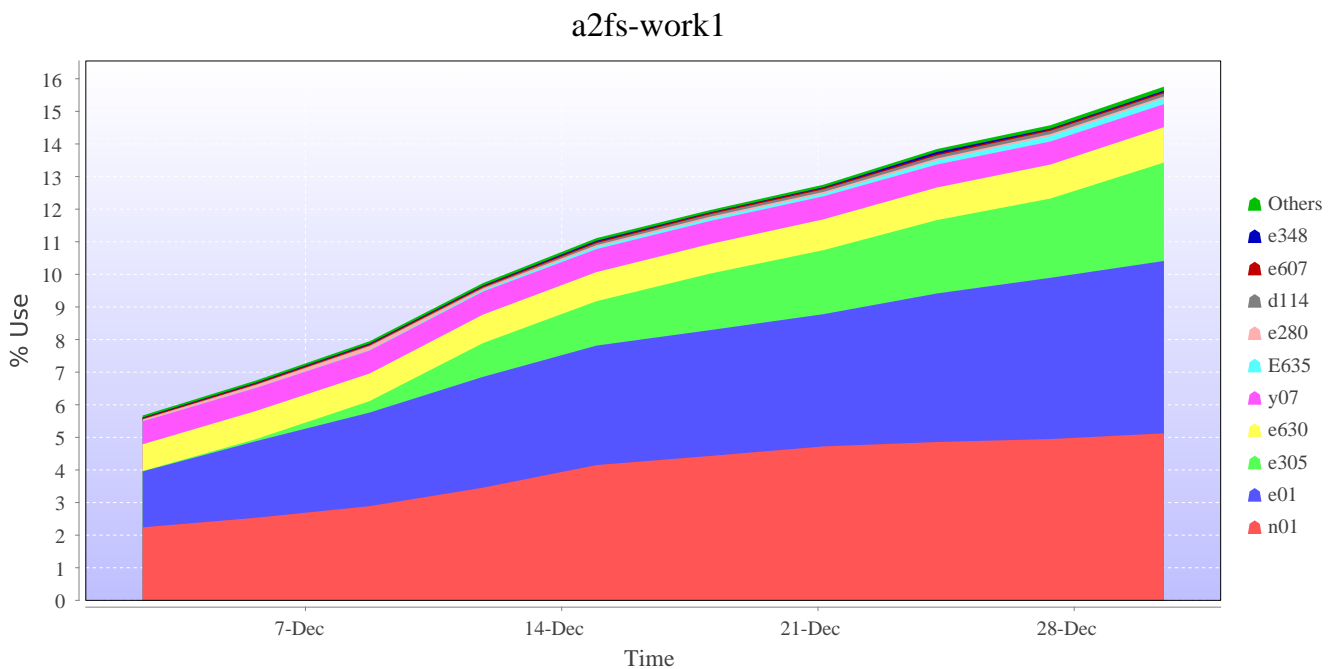
## Disk usage for home ( a2fs-home3 )

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 )

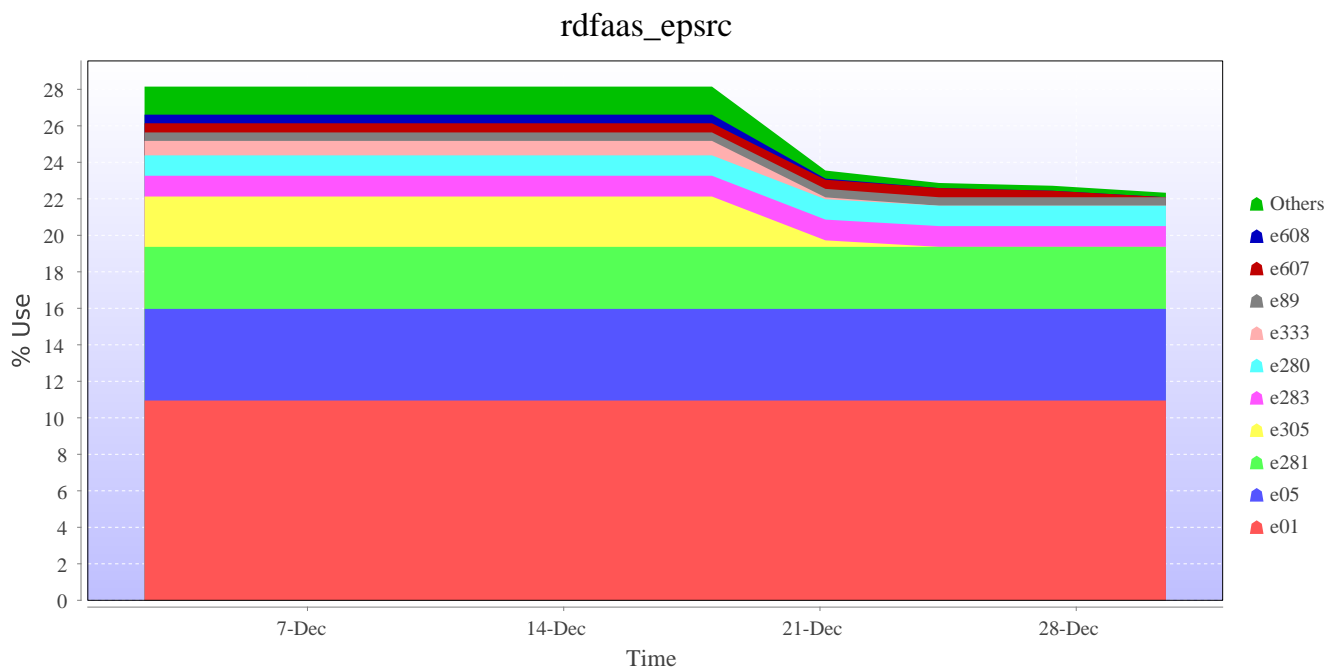
This is a plot of Disk Use on a2fs-work1 against time. The plot is divided into a number of classes according to Project. This is a stacked plot so the top of the plot represents the total usage at a given time.





## 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.

