

# Monthly Reporting

## Report from 01 November 2022 to 30 November 2022

### Report for Resource Pool Archer2 on archer2

A total of 4,210,560 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.

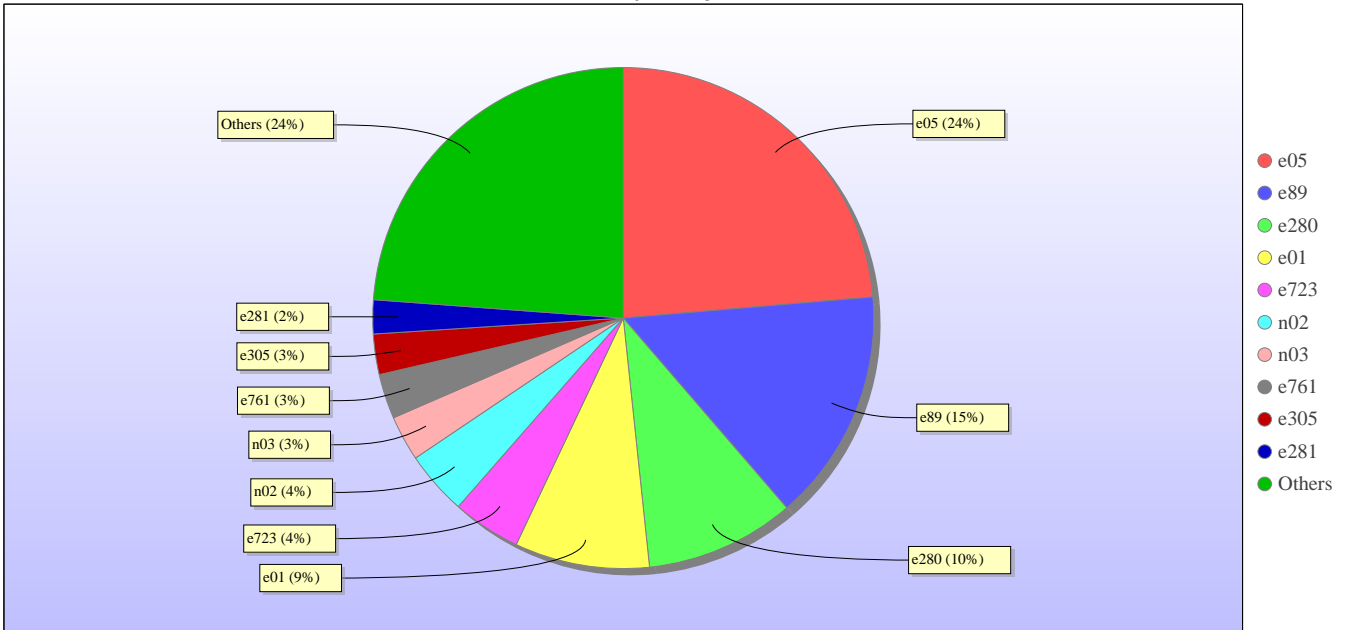
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e572	Leadership Awards	208	4,952.9	0.12%	7,831.7	0.19%	2,071.3	0.05%
e684	Leadership Awards	11	95.4	0.00%	95.4	0.00%	1,462.8	0.03%
e683	Pioneer Projects	3,169	17,534.0	0.42%	17,534.0	0.42%	13,562.1	0.32%
e685	Pioneer Projects	8,613	17,577.8	0.42%	63,756.9	1.51%	20,049.8	0.48%
e686	Pioneer Projects	1,020	7,624.6	0.18%	7,627.1	0.18%	17,930.7	0.43%
e687	Pioneer Projects	750	6,533.4	0.16%	6,542.3	0.16%	16,300.7	0.39%
e688	Pioneer Projects	173	9,440.6	0.22%	9,464.5	0.22%	21,598.4	0.51%
e689	Pioneer Projects	15	2.8	0.00%	24.5	0.00%	26,244.1	0.62%
e690	Pioneer Projects	1,011	22,141.1	0.53%	67,456.0	1.60%	24,451.0	0.58%
e691	Pioneer Projects	37	10,680.8	0.25%	10,680.8	0.25%	24,928.3	0.59%
e692	Pioneer Projects	51	14,616.7	0.35%	14,616.7	0.35%	18,817.5	0.45%
e693	Pioneer Projects	65	38,856.2	0.92%	42,496.8	1.01%	24,059.8	0.57%
c01	Class1a	676	3,117.0	0.07%	3,161.0	0.08%	26,456.0	0.63%
e348	Class1a	2,129	3,460.7	0.08%	3,460.7	0.08%	10,481.3	0.25%
e575	Class1a	255	1,188.1	0.03%	1,188.1	0.03%	3,314.2	0.08%
e607	Class1a	628	14,118.9	0.34%	76,134.0	1.81%	9,694.0	0.23%
e609	Class1a	438	0.3	0.00%	6,321.2	0.15%	3,169.0	0.08%
e642	Class1a	400	5,816.1	0.14%	5,997.9	0.14%	4,680.5	0.11%
e643	Class1a	417	7,104.4	0.17%	7,104.4	0.17%	2,931.4	0.07%
e647	Class1a	91	8.3	0.00%	10,396.5	0.25%	1,916.9	0.05%
e655	Class1a	197	128.1	0.00%	82,960.6	1.97%	2,720.8	0.06%
e663	Class1a	0	0.0	0.00%	0.0	0.00%	3,244.2	0.08%
e664	Class1a	0	0.0	0.00%	0.0	0.00%	865.1	0.02%
e667	Class1a	134	3,600.8	0.09%	3,600.8	0.09%	2,043.5	0.05%
e694	Class1a	25	70.5	0.00%	70.6	0.00%	2,741.3	0.07%
e696	Class1a	329	223.2	0.01%	3,116.4	0.07%	235.9	0.01%
e697	Class1a	41	16,517.2	0.39%	26,803.5	0.64%	8,489.9	0.20%
e700	Class1a	11	528.0	0.01%	528.0	0.01%	4,303.4	0.10%
e701	Class1a	9	1,145.8	0.03%	1,145.8	0.03%	1,840.1	0.04%
e702	Class1a	0	0.0	0.00%	0.0	0.00%	973.8	0.02%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e705	Class1a	22	753.3	0.02%	753.3	0.02%	3,596.3	0.09%
e706	Class1a	0	0.0	0.00%	0.0	0.00%	821.6	0.02%
e707	Class1a	39	230.7	0.01%	230.7	0.01%	11,559.8	0.27%
e708	Class1a	0	0.0	0.00%	0.0	0.00%	4,533.8	0.11%
e710	Class1a	81	223.6	0.01%	223.6	0.01%	3,977.0	0.09%
e712	Class1a	0	0.0	0.00%	0.0	0.00%	13,043.5	0.31%
e720	Class1a	693	15,161.9	0.36%	20,222.6	0.48%	21,956.8	0.52%
e721	Class1a	17	18.5	0.00%	18.7	0.00%	2,719.8	0.06%
e724	Class1a	0	0.0	0.00%	0.0	0.00%	11,433.8	0.27%
e728	Class1a	1	1.3	0.00%	1.3	0.00%	2,353.4	0.06%
e751	Class1a	519	11,808.5	0.28%	11,810.5	0.28%	4,886.9	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	3,461.5	0.08%
e758	Class1a	0	0.0	0.00%	0.0	0.00%	3,481.2	0.08%
e761	Class1a	94	0.0	0.00%	111,724.1	2.65%	1,627.5	0.04%
e763	Class1a	0	0.0	0.00%	0.0	0.00%	325.9	0.01%
e764	Class1a	0	0.0	0.00%	0.0	0.00%	19,425.8	0.46%
e6337	Class1a	28	1,709.8	0.04%	1,709.8	0.04%	1,894.8	0.05%
e01	Consortia	2,231	209,007.8	4.96%	336,854.5	8.00%	218,458.1	5.19%
e05	Consortia	37,047	476,883.6	11.33%	915,542.2	21.74%	691,784.4	16.43%
e89	Consortia	20,740	499,269.7	11.86%	581,442.7	13.81%	327,687.2	7.78%
e280	Consortia	5,330	134,968.6	3.21%	373,405.5	8.87%	145,639.0	3.46%
e281	Consortia	2,450	82,504.2	1.96%	84,683.2	2.01%	72,819.9	1.73%
e283	Consortia	3,917	51,632.1	1.23%	79,458.6	1.89%	36,410.0	0.86%
e305	Consortia	1,749	94,817.1	2.25%	101,061.8	2.40%	109,229.1	2.59%
e585	Consortia	1,091	11,225.3	0.27%	11,225.3	0.27%	109,229.1	2.59%
e739	Pump Priming	203	580.5	0.01%	580.5	0.01%	656.6	0.02%
e749	Pump Priming	159	1,503.5	0.04%	1,503.5	0.04%	434.4	0.01%
e754	Pump Priming	0	0.0	0.00%	0.0	0.00%	662.8	0.02%
e755	Pump Priming	0	0.0	0.00%	0.0	0.00%	638.2	0.02%
e757	Pump Priming	92	881.5	0.02%	881.5	0.02%	596.9	0.01%
e759	Pump Priming	0	0.0	0.00%	0.0	0.00%	646.2	0.02%
e762	Pump Priming	25	1,400.0	0.03%	1,400.0	0.03%	659.3	0.02%
e766	Pump Priming	8	392.7	0.01%	392.7	0.01%	641.7	0.02%
e768	Pump Priming	35	331.1	0.01%	331.1	0.01%	375.8	0.01%
ta092	Training	0	0.0	0.00%	0.0	0.00%	159.1	0.00%
e632	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,550.7	0.08%
e673	Access to HPC	147	9,732.4	0.23%	75,980.1	1.80%	2,393.4	0.06%
e677	Access to HPC	0	0.0	0.00%	0.0	0.00%	7,080.7	0.17%
e727	Access to HPC	174	1,122.1	0.03%	1,382.8	0.03%	3,205.4	0.08%
e730	Access to HPC	69	9,541.9	0.23%	9,541.9	0.23%	3,129.7	0.07%
e731	Access to HPC	109	2,380.5	0.06%	2,380.5	0.06%	8,875.4	0.21%
e732	Access to HPC	87	1,058.9	0.03%	1,058.9	0.03%	4,890.2	0.12%
e733	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,068.6	0.10%
e734	Access to HPC	250	11,566.1	0.27%	11,566.1	0.27%	7,443.6	0.18%
e735	Access to HPC	77	18,804.3	0.45%	19,251.4	0.46%	10,140.3	0.24%
e736	Access to HPC	209	40,018.9	0.95%	48,951.2	1.16%	11,736.5	0.28%
e742	Access to HPC	279	4,659.0	0.11%	4,659.0	0.11%	1,266.0	0.03%
e743	Access to HPC	181	5,372.9	0.13%	5,372.9	0.13%	8,186.0	0.19%
e744	Access to HPC	439	4,220.1	0.10%	6,702.6	0.16%	4,931.5	0.12%
e745	Access to HPC	8	0.0	0.00%	5,451.9	0.13%	1,869.2	0.04%
e746	Access to HPC	83	1,722.8	0.04%	1,740.4	0.04%	15,092.7	0.36%
e747	Access to HPC	68	33.9	0.00%	33.9	0.00%	20,829.4	0.49%
e748	Access to HPC	67	15,132.9	0.36%	15,132.9	0.36%	24,153.6	0.57%
<b>EPSRC Total</b>		<b>99,721</b>	<b>1,927,755.5</b>	<b>45.78%</b>	<b>3,324,780.5</b>	<b>78.96%</b>	<b>2,272,247.8</b>	<b>53.97%</b>
n01	Consortia	12,483	31,894.1	0.76%	34,485.2	0.82%	145,150.7	3.45%
n02	Consortia	23,223	158,417.8	3.76%	159,559.5	3.79%	517,561.6	12.29%
n03	Consortia	2,565	113,003.0	2.68%	113,078.2	2.69%	161,095.9	3.83%
<b>NERC Total</b>		<b>38,271</b>	<b>303,315.0</b>	<b>7.20%</b>	<b>307,122.9</b>	<b>7.29%</b>	<b>823,808.2</b>	<b>19.57%</b>
b19	Class1a	126	376.2	0.01%	376.2	0.01%	1,918.8	0.05%
<b>BBSRC Total</b>		<b>126</b>	<b>376.2</b>	<b>0.01%</b>	<b>376.2</b>	<b>0.01%</b>	<b>1,918.8</b>	<b>0.05%</b>
e756	Leadership Awards	13	2.7	0.00%	2.7	0.00%	4,956.9	0.12%

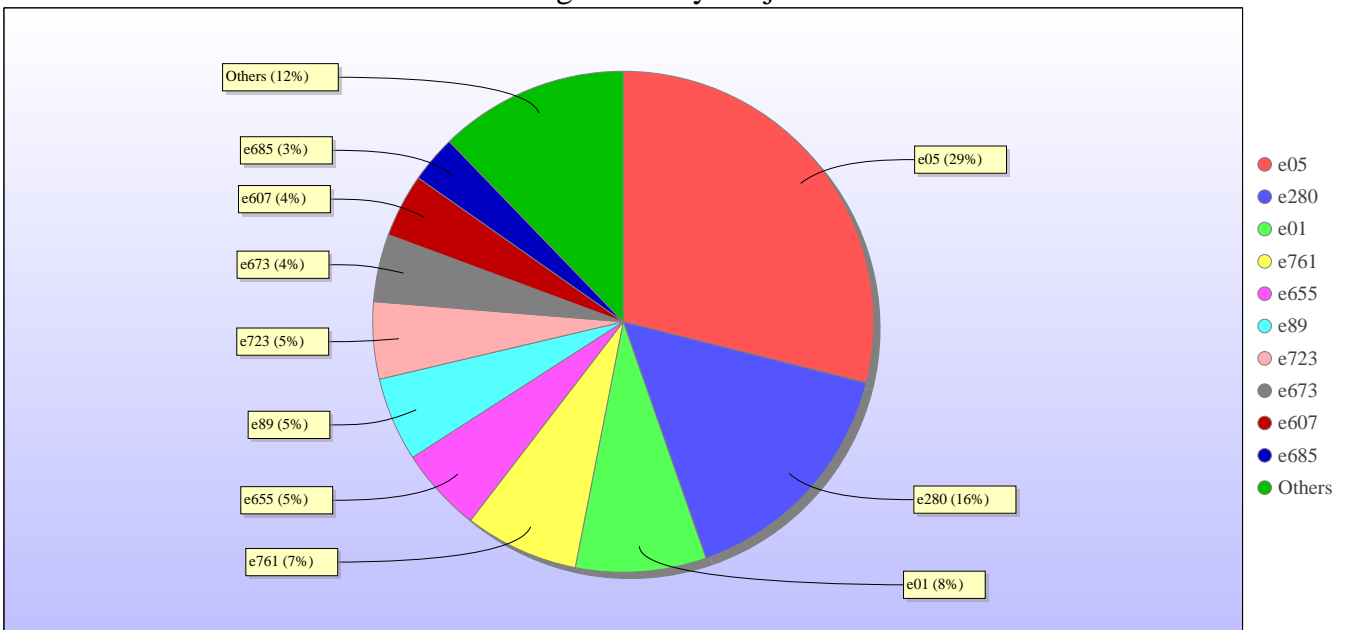
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e760	Leadership Awards	19	1,770.3	0.04%	1,770.3	0.04%	1,188.0	0.03%
e723	Class1a	1,707	95,379.4	2.27%	170,768.6	4.06%	24,584.6	0.58%
e738	Class1a	183	34.0	0.00%	34.0	0.00%	8,150.3	0.19%
<b>UKRI Total</b>		<b>1,922</b>	<b>97,186.5</b>	<b>2.31%</b>	<b>172,575.7</b>	<b>4.10%</b>	<b>38,879.8</b>	<b>0.92%</b>
pr1u1555	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	414.1	0.01%
pr1u1751	DECI: EXEC	356	3,772.8	0.09%	3,772.8	0.09%	1,303.9	0.03%
pr1u1756	DECI: EXEC	193	2,901.2	0.07%	2,945.3	0.07%	6,575.6	0.16%
<b>PRACE Total</b>		<b>549</b>	<b>6,674.0</b>	<b>0.16%</b>	<b>6,718.1</b>	<b>0.16%</b>	<b>8,293.5</b>	<b>0.20%</b>
ecseaa13	eCSE	643	16.6	0.00%	16.6	0.00%	88.2	0.00%
ecseaa26	eCSE	88	6.2	0.00%	2,956.7	0.07%	229.4	0.01%
ecseaa28	eCSE	0	0.0	0.00%	0.0	0.00%	39.5	0.00%
ecseab02	eCSE	0	0.0	0.00%	0.0	0.00%	87.0	0.00%
ecseac05	eCSE	0	0.0	0.00%	0.0	0.00%	61.9	0.00%
ecseac12	eCSE	0	0.0	0.00%	0.0	0.00%	81.5	0.00%
ecseac14	eCSE	0	0.0	0.00%	0.0	0.00%	63.2	0.00%
ecseac15	eCSE	5	0.6	0.00%	0.6	0.00%	129.7	0.00%
ecsead01	eCSE	0	0.0	0.00%	0.0	0.00%	95.1	0.00%
ecsead02	eCSE	0	0.0	0.00%	0.0	0.00%	157.7	0.00%
ecsead03	eCSE	0	0.0	0.00%	0.0	0.00%	124.3	0.00%
ecsead06	eCSE	32	795.5	0.02%	795.5	0.02%	340.7	0.01%
ecsead08	eCSE	53	33.3	0.00%	2,186.5	0.05%	75.5	0.00%
ecseae03	eCSE	0	0.0	0.00%	0.0	0.00%	90.6	0.00%
ecseae04	eCSE	0	0.0	0.00%	0.0	0.00%	115.7	0.00%
ecseae08	eCSE	0	0.0	0.00%	0.0	0.00%	115.4	0.00%
ecseae09	eCSE	0	0.0	0.00%	0.0	0.00%	113.0	0.00%
ecseaf01	eCSE	1	0.0	0.00%	0.0	0.00%	101.1	0.00%
ecseaf02	eCSE	0	0.0	0.00%	0.0	0.00%	51.0	0.00%
ecseaf03	eCSE	0	0.0	0.00%	0.0	0.00%	49.1	0.00%
ecseaf04	eCSE	0	0.0	0.00%	0.0	0.00%	63.0	0.00%
ecseaf06	eCSE	0	0.0	0.00%	0.0	0.00%	97.6	0.00%
ecseag01	eCSE	0	0.0	0.00%	0.0	0.00%	64.5	0.00%
ecseag02	eCSE	10	1.3	0.00%	1.3	0.00%	84.3	0.00%
ecseag03	eCSE	0	0.0	0.00%	0.0	0.00%	58.9	0.00%
ecseag06	eCSE	74	0.9	0.00%	2.0	0.00%	41.7	0.00%
ecseag08	eCSE	0	0.0	0.00%	0.0	0.00%	54.6	0.00%
ecseag09	eCSE	0	0.0	0.00%	0.0	0.00%	58.7	0.00%
<b>eCSE Total</b>		<b>906</b>	<b>854.3</b>	<b>0.02%</b>	<b>5,959.0</b>	<b>0.14%</b>	<b>2,732.7</b>	<b>0.06%</b>
d35	Research	1,158	93.9	0.00%	93.9	0.00%	179.6	0.00%
d011	Research	121	3,355.1	0.08%	3,355.1	0.08%	170.0	0.00%
d114	Research	0	0.0	0.00%	0.0	0.00%	5,057.7	0.12%
d137	Research	286	13.9	0.00%	13.9	0.00%	1,627.4	0.04%
d142	Research	19	16.3	0.00%	16.3	0.00%	4,934.2	0.12%
d170	Research	0	0.0	0.00%	0.0	0.00%	48.9	0.00%
d175	Research	0	0.0	0.00%	0.0	0.00%	10.6	0.00%
d177	Research	189	55.3	0.00%	55.3	0.00%	82.2	0.00%
d193	Research	8	0.1	0.00%	0.1	0.00%	328.8	0.01%
d435	Research	23	0.1	0.00%	28.2	0.00%	74.0	0.00%
dc129	Research	1,044	362.2	0.01%	362.2	0.01%	1,643.8	0.04%
d105	Industrial	0	0.0	0.00%	0.0	0.00%	3,260.1	0.08%
d181	Industrial	804	0.0	0.00%	35,304.4	0.84%	1,168.8	0.03%
d190	Industrial	0	0.0	0.00%	0.0	0.00%	1,643.8	0.04%
d433	Industrial	0	0.0	0.00%	0.0	0.00%	75.8	0.00%
d434	Industrial	0	0.0	0.00%	0.0	0.00%	15.2	0.00%
dc150	Industrial	0	0.0	0.00%	0.0	0.00%	550.4	0.01%
i01	Industrial	0	0.0	0.00%	0.0	0.00%	5.2	0.00%
i18	Industrial	4	28.8	0.00%	28.8	0.00%	2,275.3	0.05%
i21	Industrial	0	0.0	0.00%	0.0	0.00%	16,300.7	0.39%
i24	Industrial	0	0.0	0.00%	0.0	0.00%	32.6	0.00%
i25	Industrial	68	26.7	0.00%	26.7	0.00%	98.0	0.00%
i26	Industrial	120	308.9	0.01%	308.9	0.01%	204.9	0.00%
i27	Industrial	0	0.0	0.00%	0.0	0.00%	651.9	0.02%
i238	Industrial	0	0.0	0.00%	0.0	0.00%	489.0	0.01%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
i239	Industrial	75	304.6	0.01%	304.6	0.01%	766.2	0.02%
i241	Industrial	12	407.9	0.01%	407.9	0.01%	3,167.6	0.08%
i242	Industrial	40	575.8	0.01%	575.8	0.01%	660.8	0.02%
i243	Industrial	0	0.0	0.00%	0.0	0.00%	233.8	0.01%
i244	Industrial	0	0.0	0.00%	0.0	0.00%	1,889.2	0.04%
d176	Training	0	0.0	0.00%	0.0	0.00%	30.5	0.00%
d180	Training	0	0.0	0.00%	0.0	0.00%	437.7	0.01%
m22oc	Training	0	0.0	0.00%	0.0	0.00%	379.7	0.01%
m22ol	Training	5	0.0	0.00%	0.0	0.00%	379.7	0.01%
m22ext	Training	0	0.0	0.00%	0.0	0.00%	151.9	0.00%
mdisspt	Training	0	0.0	0.00%	0.0	0.00%	143.9	0.00%
m22exts1	Training	0	0.0	0.00%	0.0	0.00%	75.9	0.00%
ta037	Training	22	0.1	0.00%	0.1	0.00%	61.6	0.00%
ta038	Training	0	0.0	0.00%	0.0	0.00%	61.6	0.00%
ta046	Training	0	0.0	0.00%	0.0	0.00%	30.9	0.00%
ta047	Training	0	0.0	0.00%	0.0	0.00%	30.9	0.00%
ta052	Training	0	0.0	0.00%	0.0	0.00%	494.9	0.01%
ta053	Training	0	0.0	0.00%	0.0	0.00%	32.5	0.00%
ta067	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta068	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta069	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta070	Training	47	98.9	0.00%	98.9	0.00%	590.2	0.01%
ta081	Training	0	0.0	0.00%	0.0	0.00%	19.9	0.00%
ta082	Training	24	0.3	0.00%	0.3	0.00%	21.9	0.00%
ta084	Training	1,091	2,995.1	0.07%	2,995.1	0.07%	739.2	0.02%
ta085	Training	3	0.0	0.00%	0.0	0.00%	37.0	0.00%
ta086	Training	0	0.0	0.00%	0.0	0.00%	18.5	0.00%
ta087	Training	0	0.0	0.00%	0.0	0.00%	18.5	0.00%
ta088	Training	116	1.5	0.00%	1.5	0.00%	25.3	0.00%
ta089	Training	0	0.0	0.00%	0.0	0.00%	34.4	0.00%
ta090	Training	0	0.0	0.00%	0.0	0.00%	6.5	0.00%
ta091	Training	0	0.0	0.00%	0.0	0.00%	32.3	0.00%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	72.4	0.00%
y02	Service	220	0.5	0.00%	29.6	0.00%	468.7	0.01%
y07	Service	0	0.0	0.00%	0.0	0.00%	821.9	0.02%
y23	Service	9	13.4	0.00%	13.4	0.00%	53.8	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	821.9	0.02%
z02	Service	2	0.3	0.00%	0.3	0.00%	361.0	0.01%
z19	Service	2,072	8,807.4	0.21%	8,820.7	0.21%	41,208.8	0.98%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.5	0.00%
DirectorsTime		7,582	17,467.3	0.41%	52,842.1	1.25%	95,370.4	2.27%
Total		149,077	2,353,628.8	55.90%	3,870,374.6	91.92%	3,243,251.1	77.03%

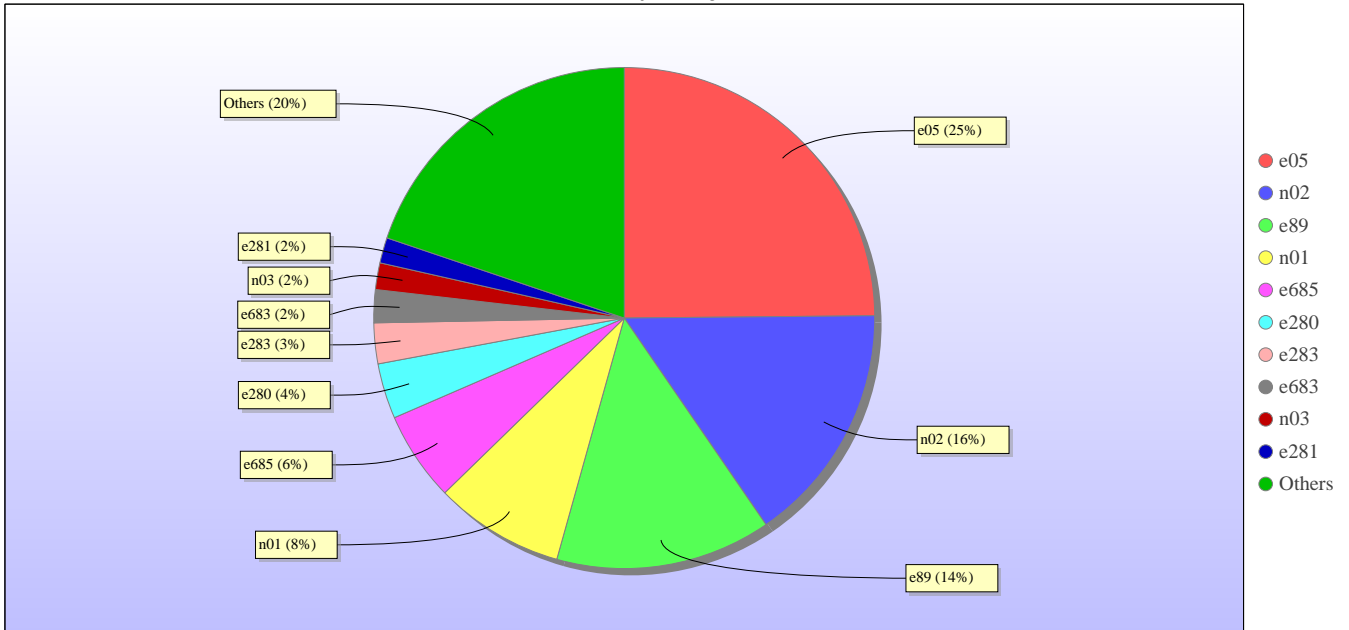
### Use by Project



### Uncharged Use by Project



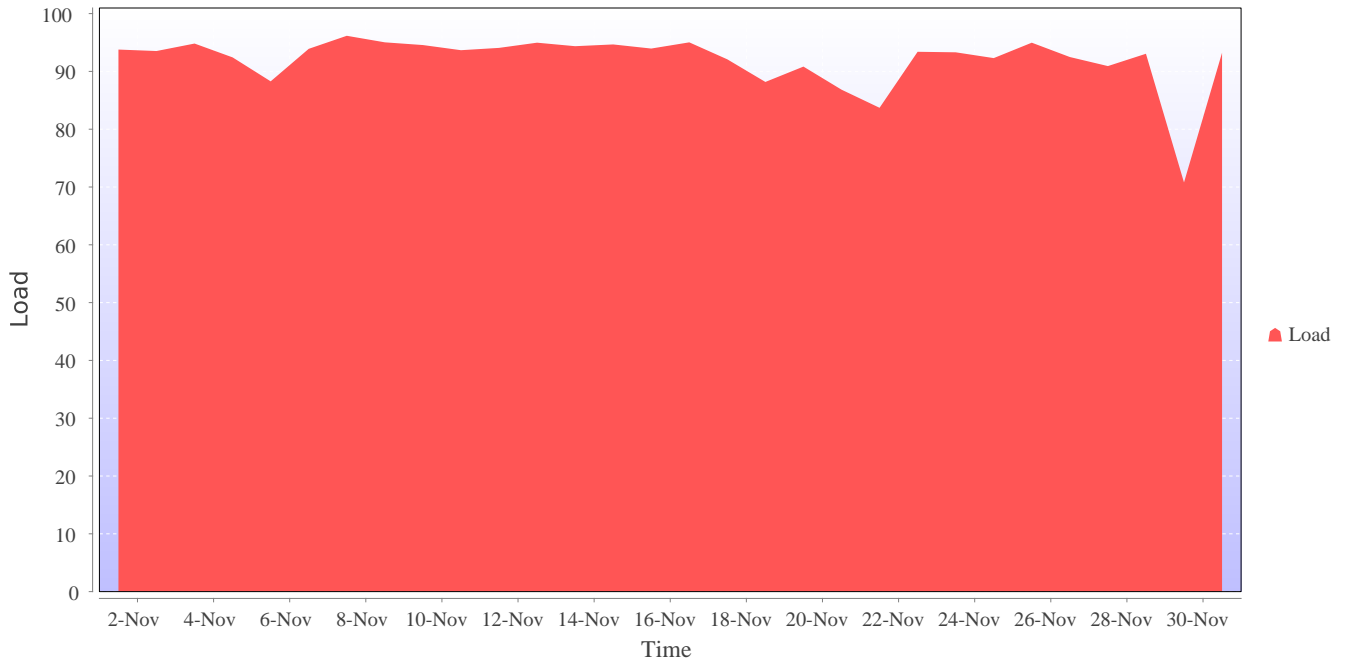
### Jobs by Project



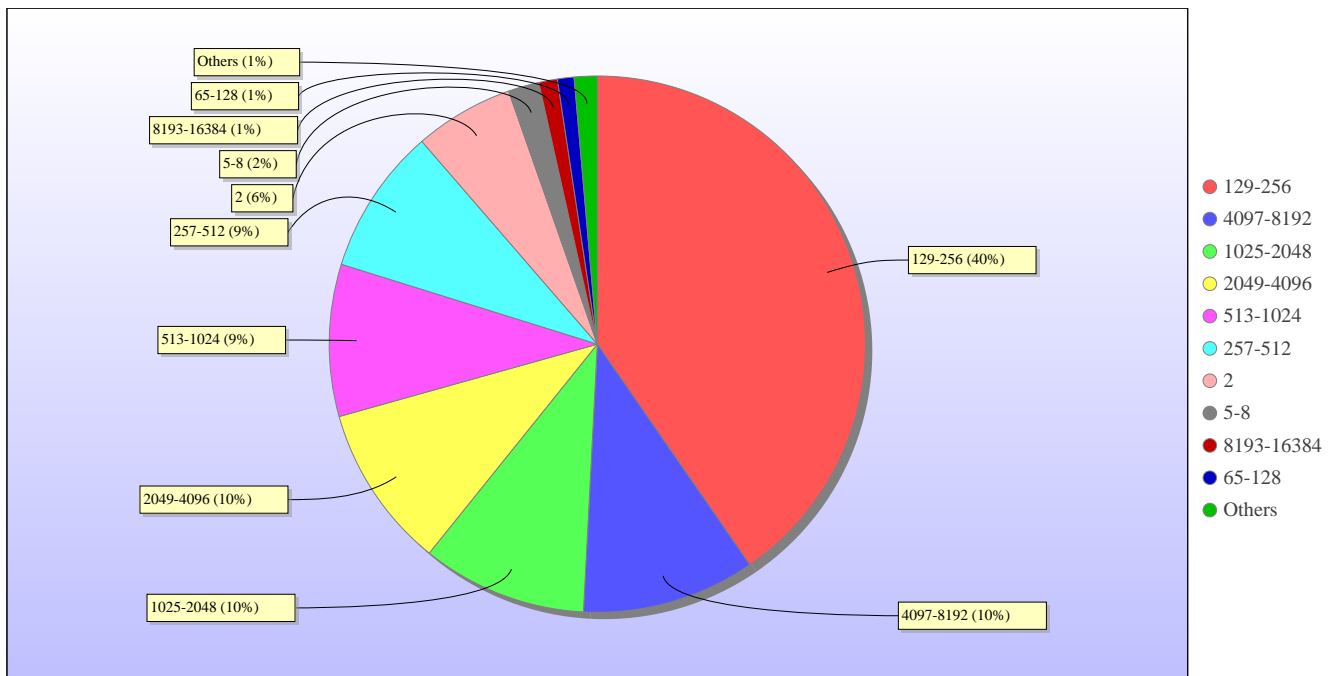
### CUs (by Size)

Size	CUs	Number of Jobs
1	0	70
2	0	8,926
3-4	0	220
5-8	0	2,775
9-16	0	125
17-32	0	163
33-64	0	142
65-128	0	1,494
129-256	149,789.635	60,184
257-512	130,148.908	13,164
513-1024	233,749.926	13,662
1025-2048	292,273.106	14,845
2049-4096	350,553.99	14,709
4097-8192	435,407.134	15,584
8193-16384	330,267.234	1,671
16385-32768	314,969.875	1,032
32769-65536	84,449.957	184
65537-131072	19,442.041	58
131073-262144	10,862.364	63
262145-524288	358.4	2
524289-1048576	1,356.231	1

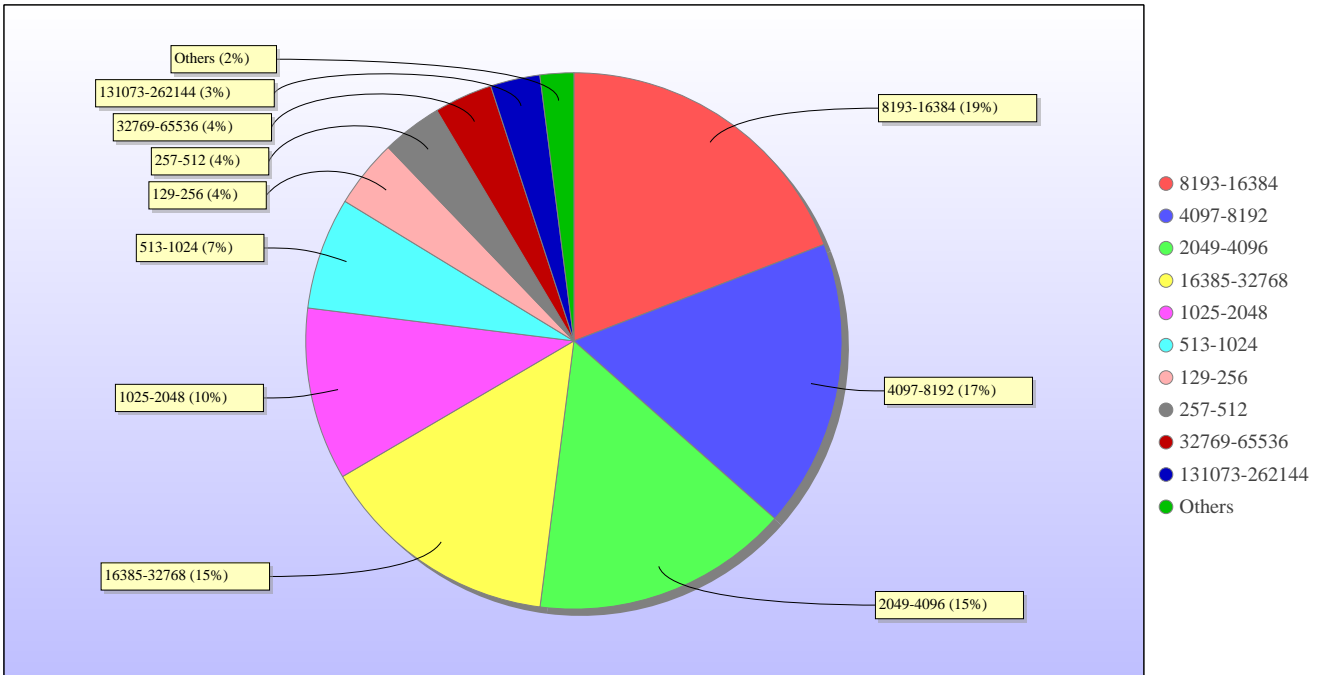
## Load plots



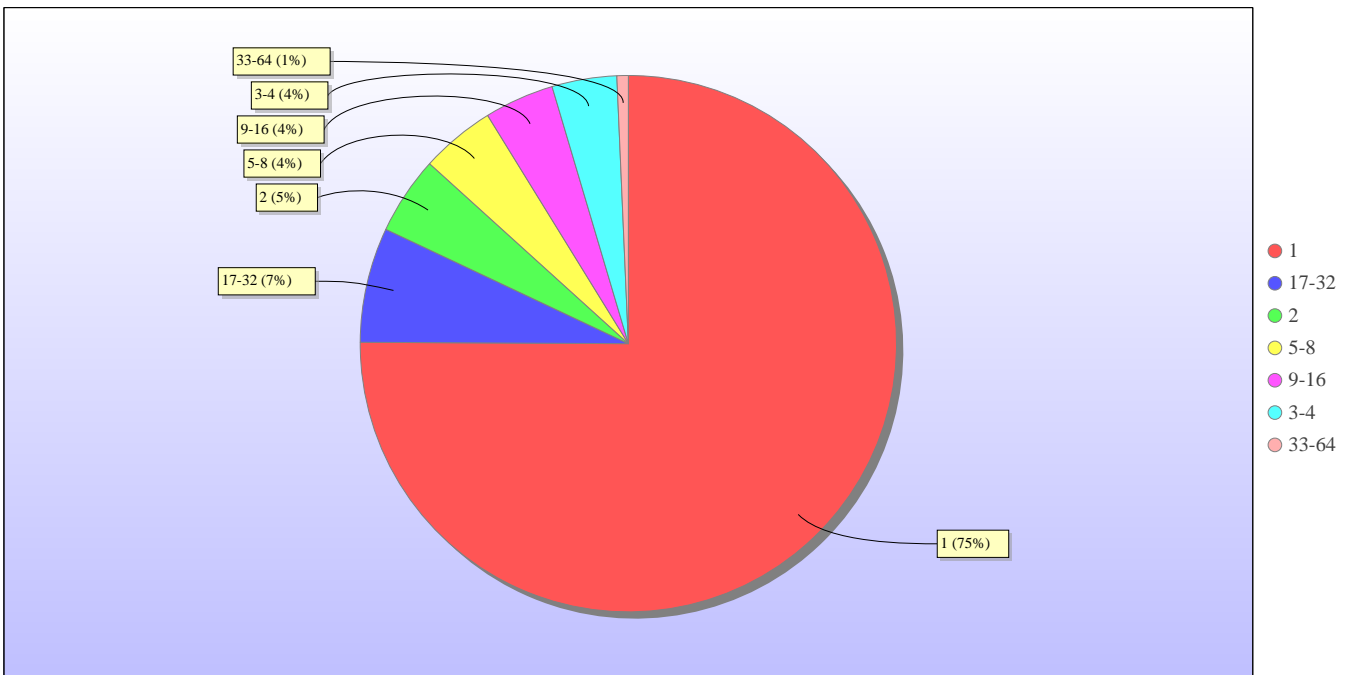
Percentage load on machine



Jobs by Size

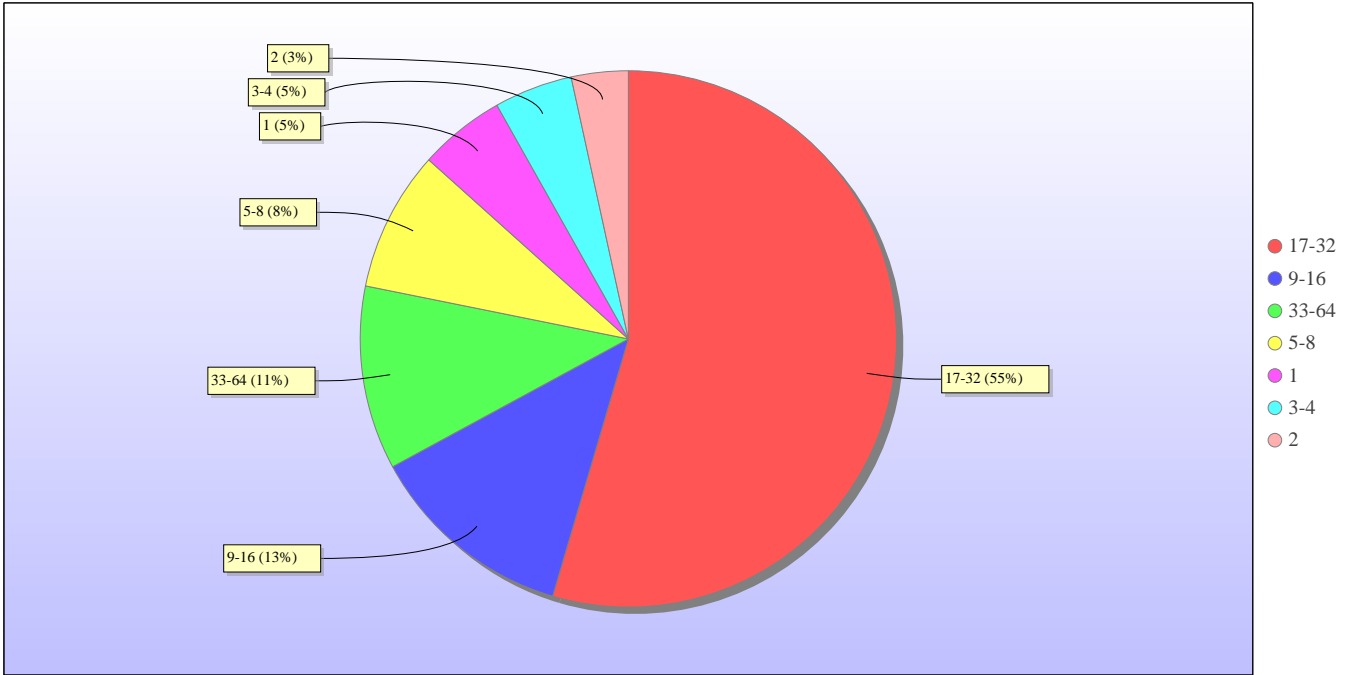


CUs used by Size

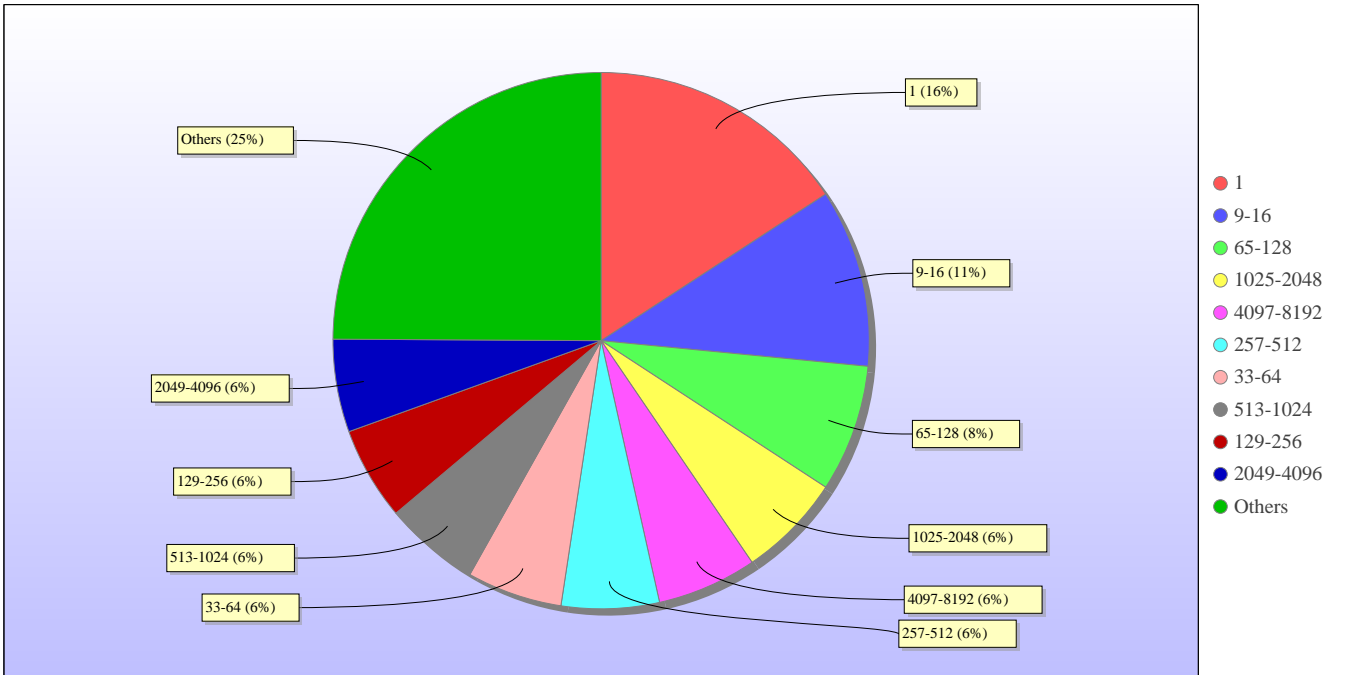


Jobs grouped by wall-clock-hours

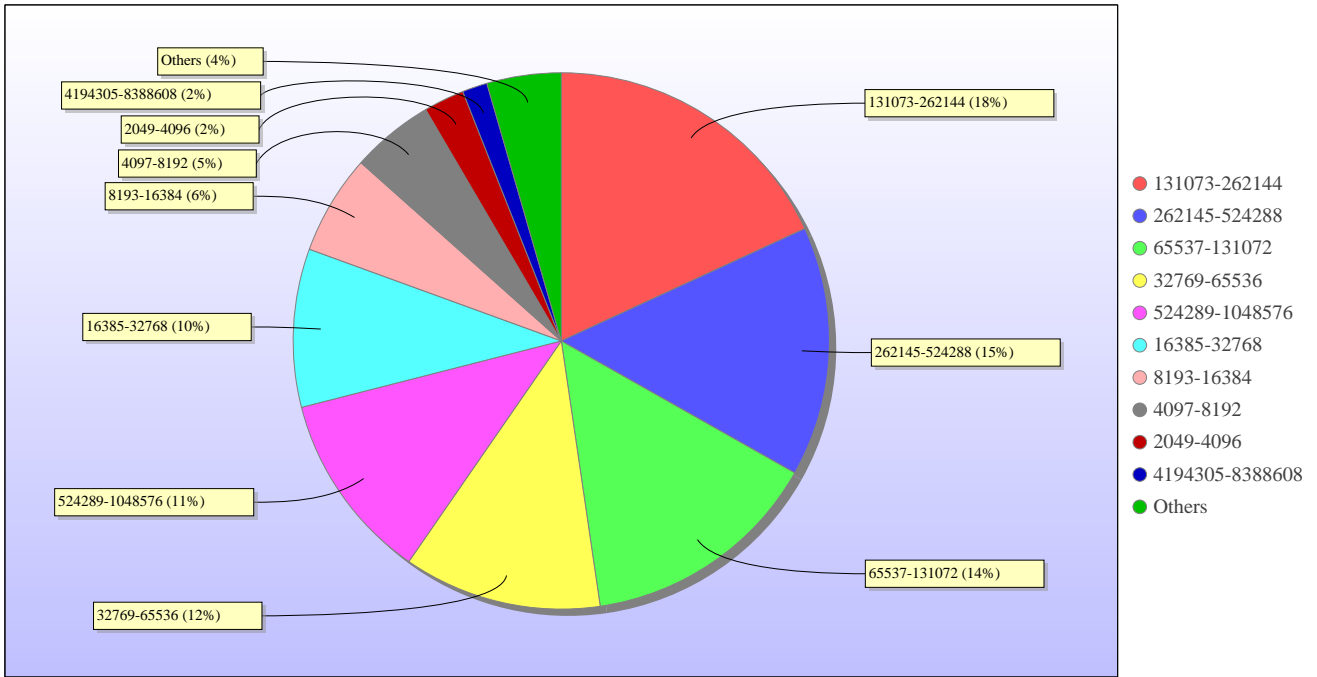




CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

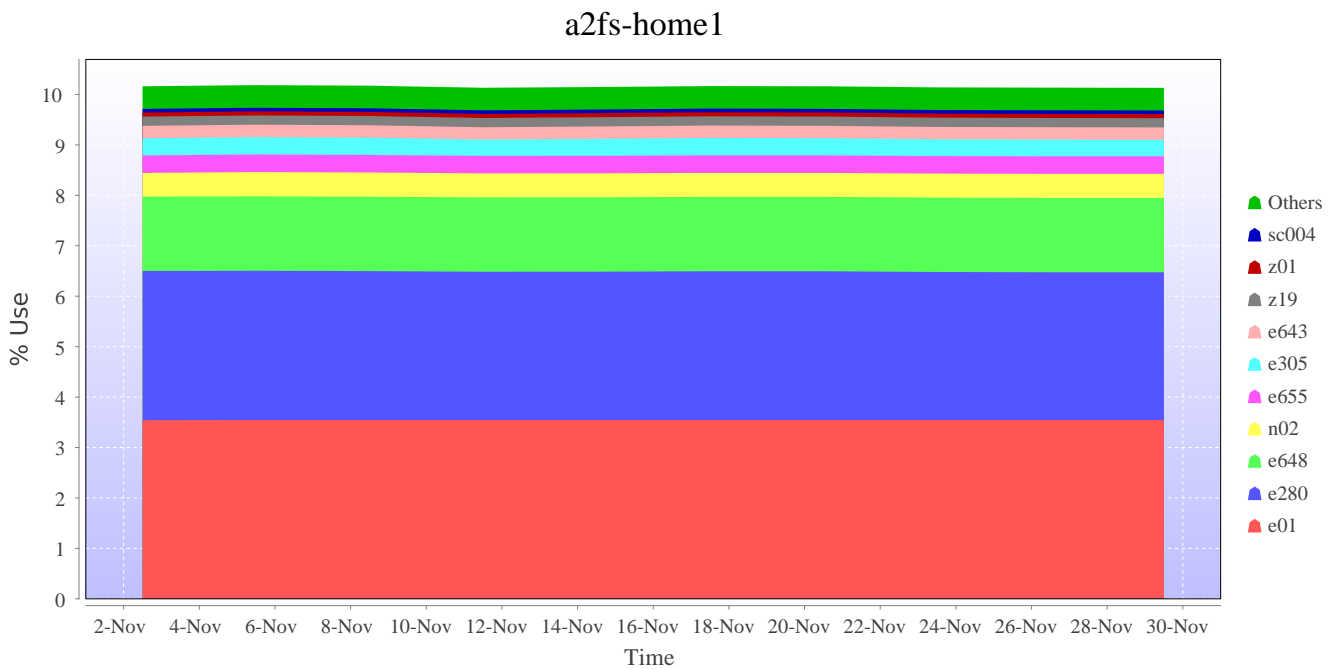


CUs used grouped by core-hours

## Disk usage

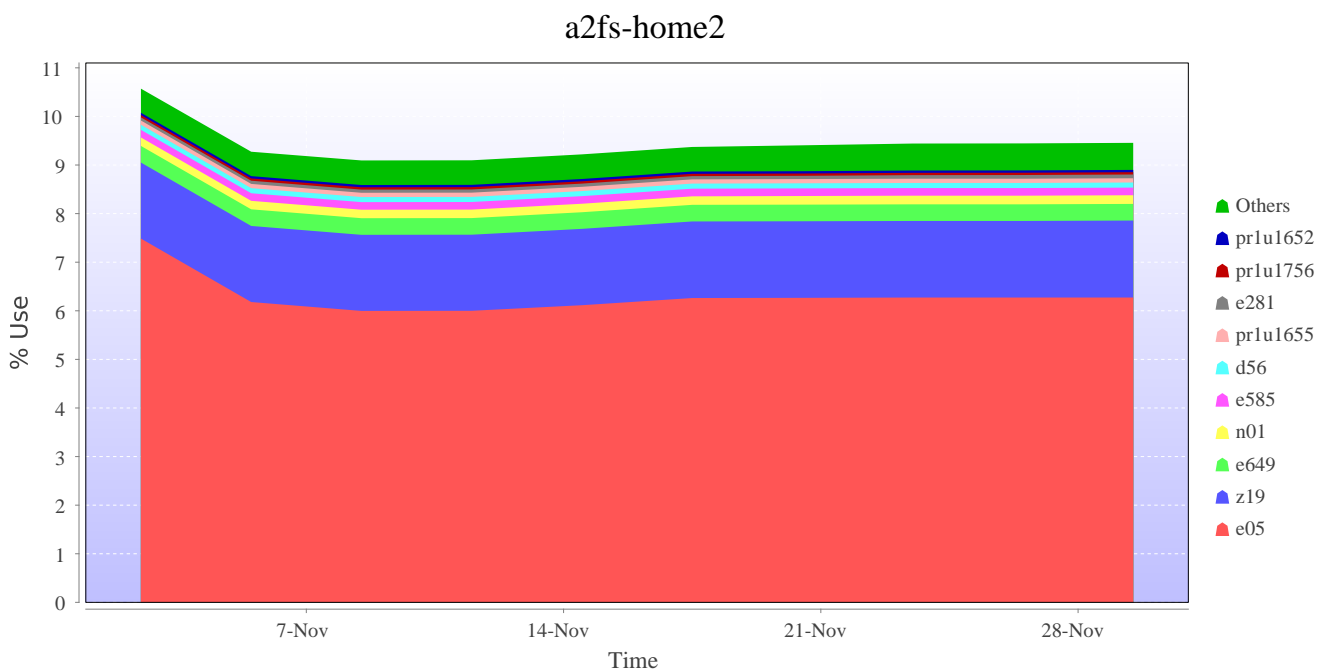
### Disk usage for home ( a2fs-home1 )

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.



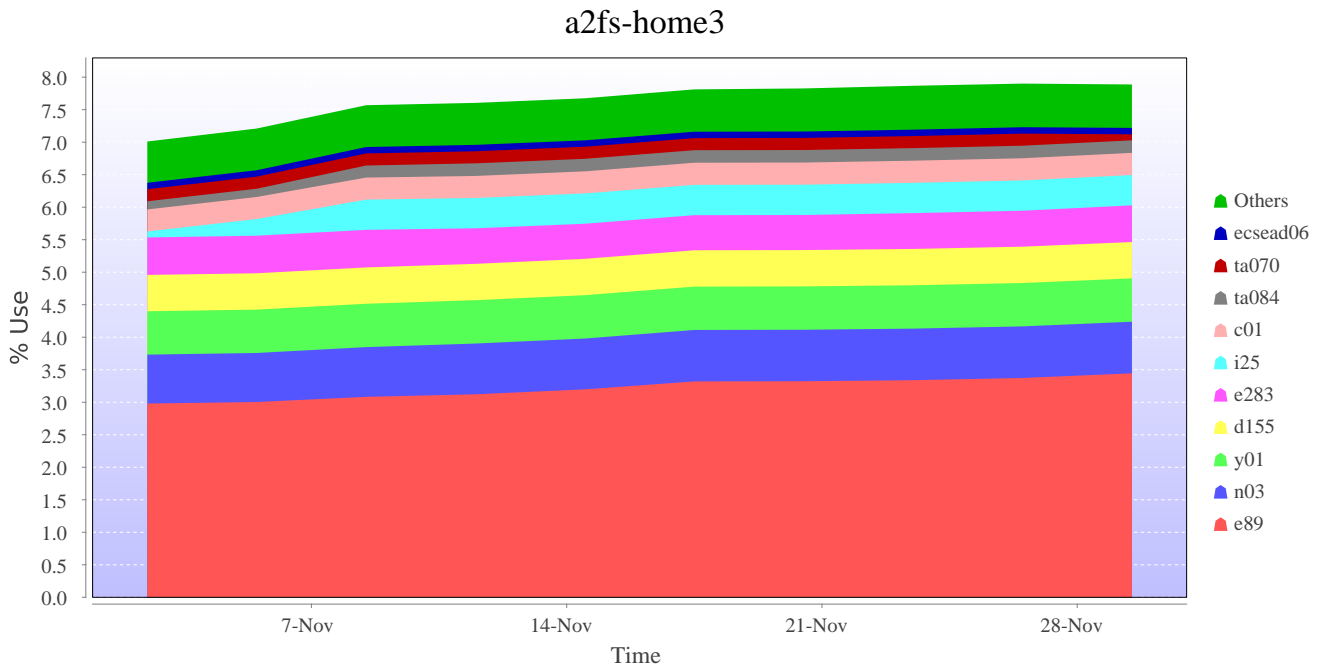
### Disk usage for home ( a2fs-home2 )

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.



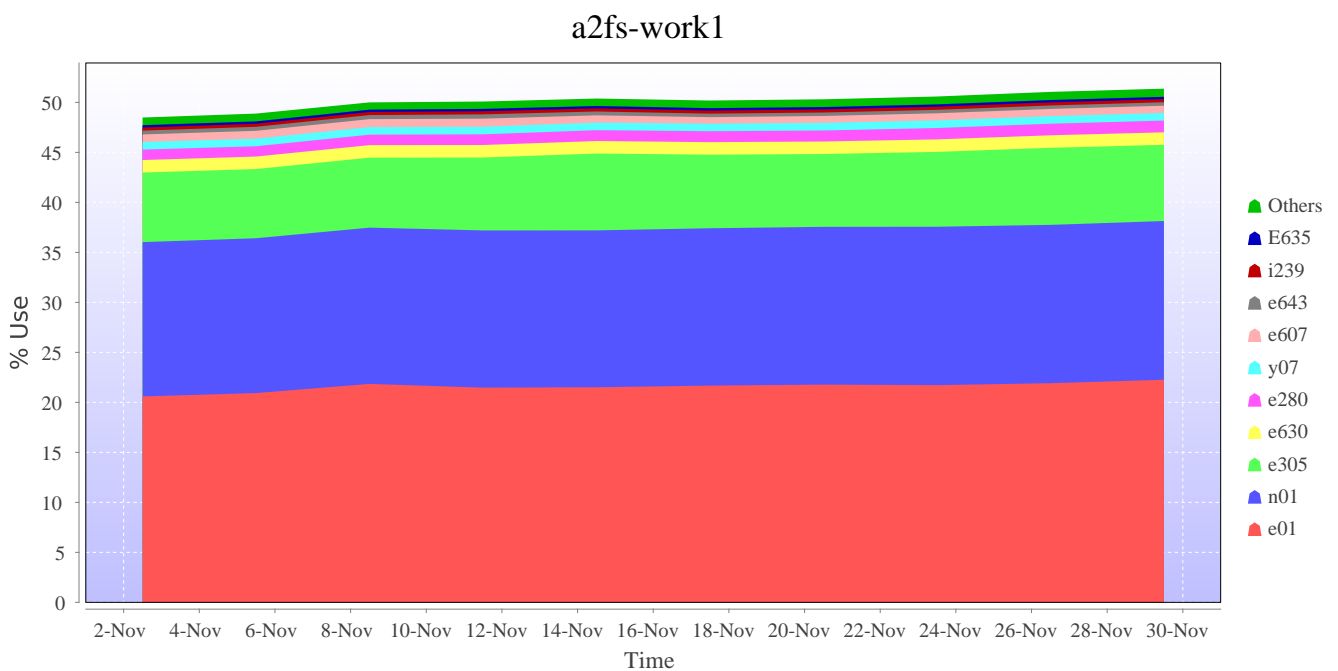
## Disk usage for home ( a2fs-home3 )

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.



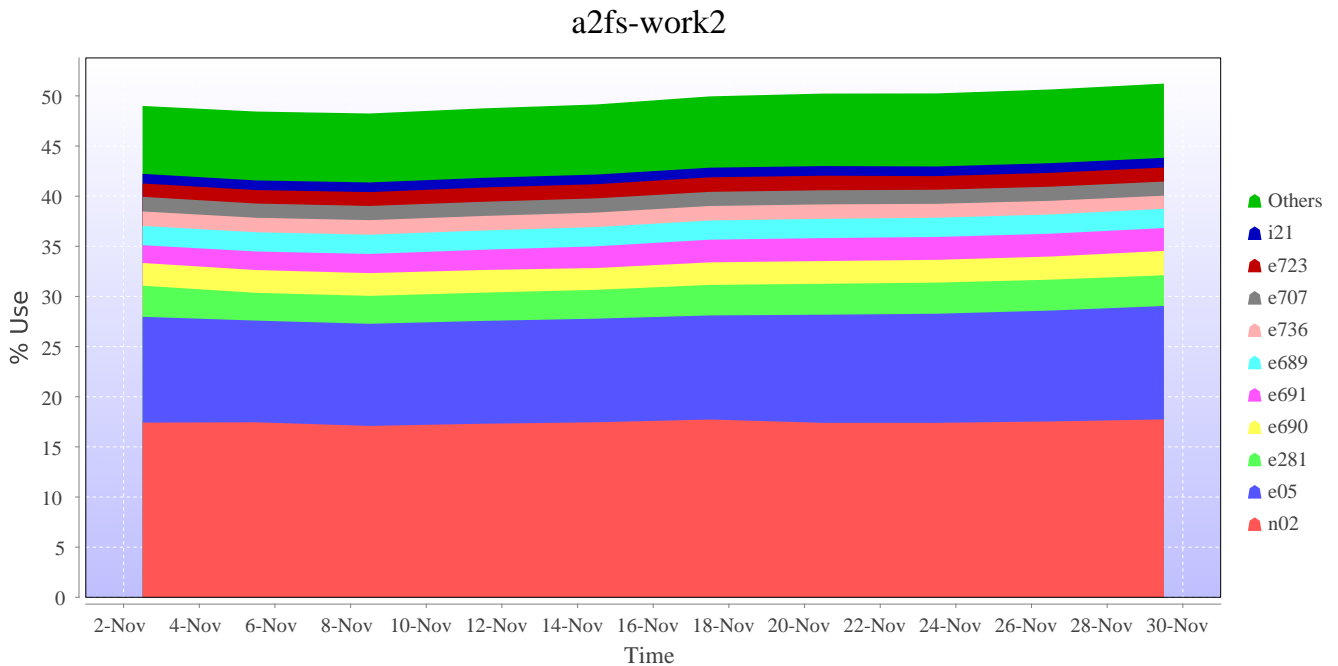
## Disk usage for work ( a2fs-work1 )

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.



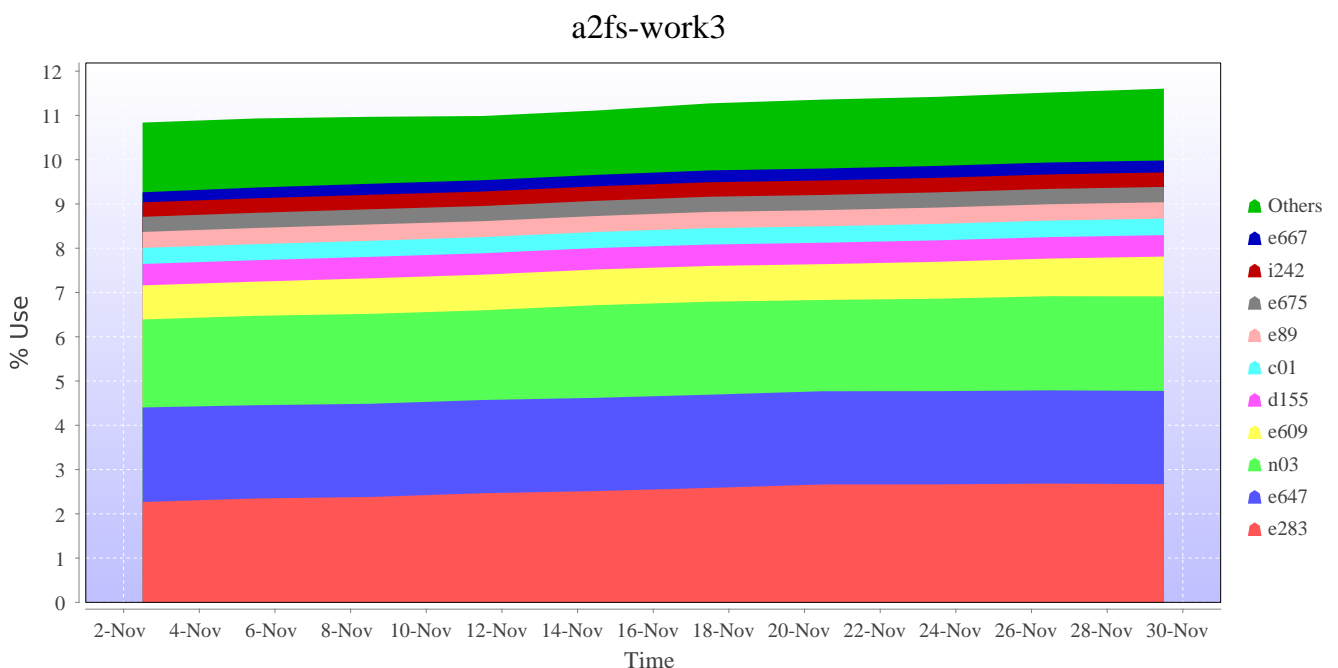
## Disk usage for work ( a2fs-work2 )

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.



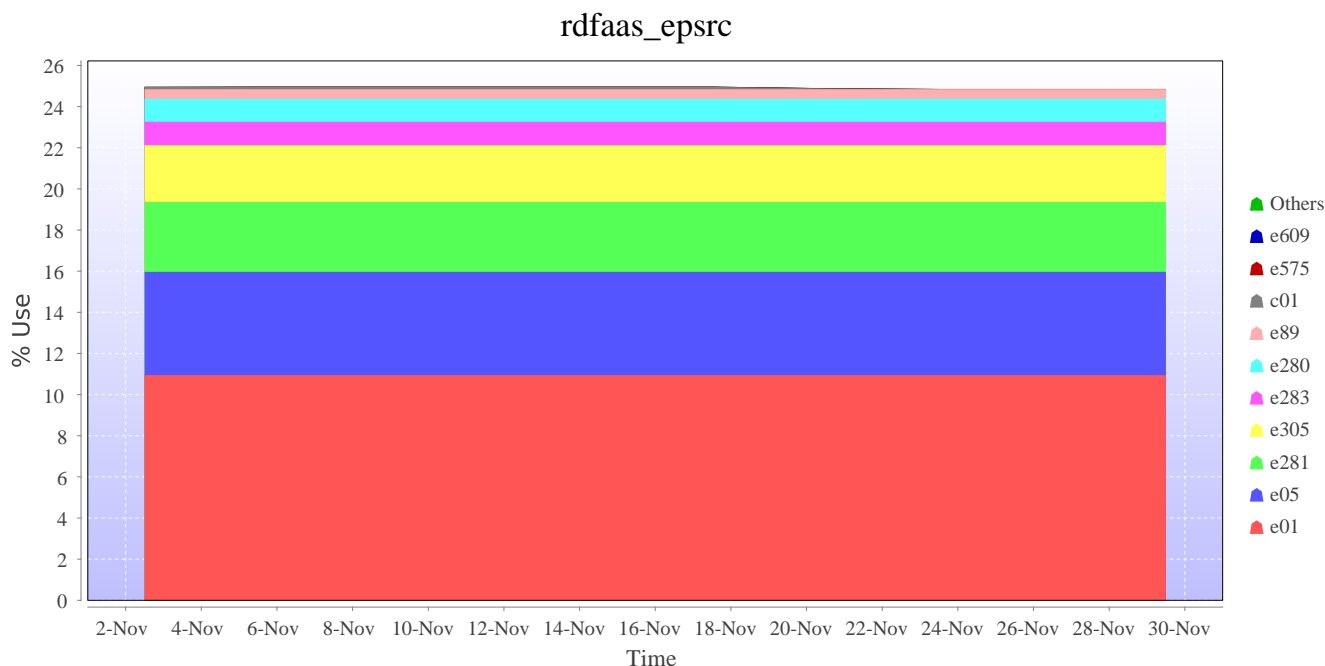
## Disk usage for work ( a2fs-work3 )

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 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.

