Monthly Reporting

Report from 01 February 2017 to 28 February 2017
Report for Resource Pool XC on ARCHER
A total of 1,190,246.397 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 the the Use can be larger than the extrapolated Allocation.
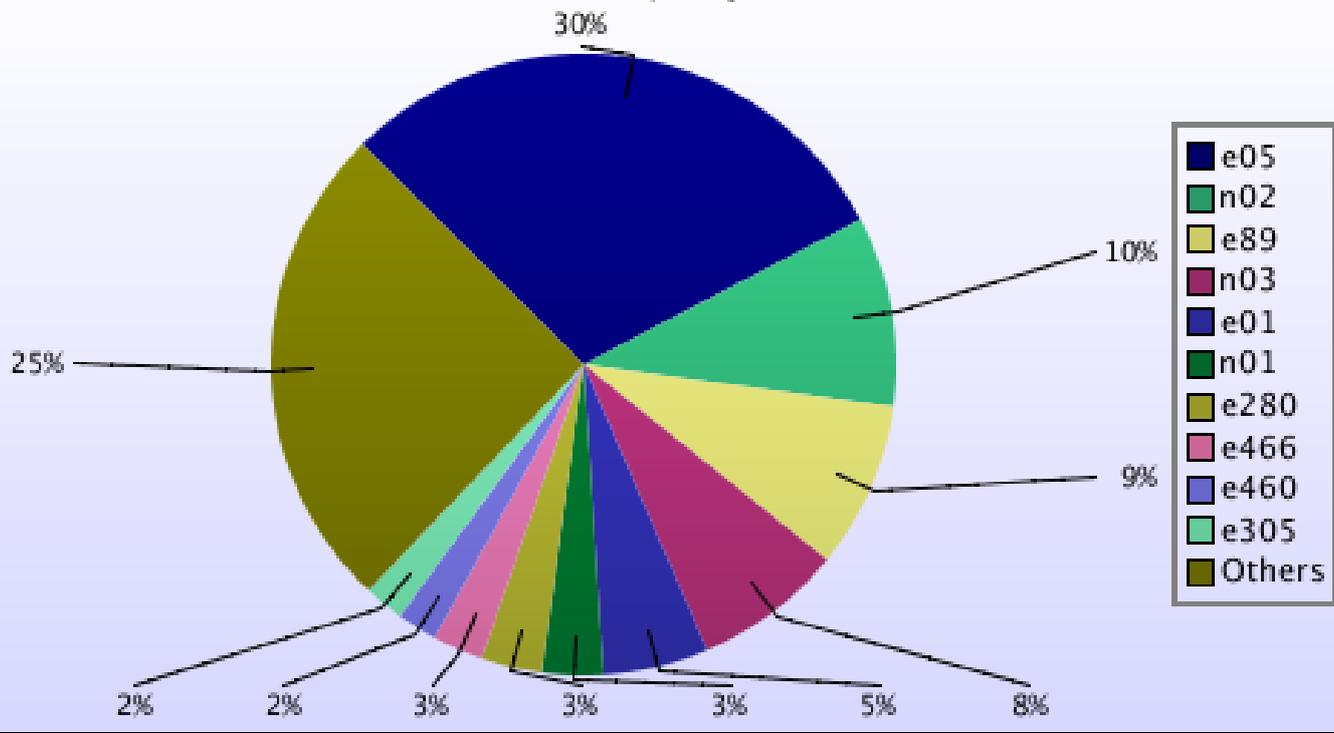
Project	Project Class	Number of Jobs	Charged kAUs	Charged Utilisation	Used kAUs	Utilisation	Allocated kAUs	Allocation
e01	Consortia	824	61,083.1	5.13%	61,101.8	5.13%	68,262.5	5.74%
e05	Consortia	10,766	333,913.6	28.05%	334,417.9	28.10%	198,165.3	16.65%
e89	Consortia	20,104	97,162.7	8.16%	97,180.3	8.16%	122,237.7	10.27%
e280	Consortia	41,392	35,330.9	2.97%	35,331.1	2.97%	35,670.0	3.00%
e281	Consortia	1,477	13,294.8	1.12%	13,296.1	1.12%	19,570.3	1.64%
e283	Consortia	799	9,028.2	0.76%	9,028.3	0.76%	15,916.8	1.34%
e305	Consortia	889	23,201.8	1.95%	23,203.2	1.95%	20,017.8	1.68%
e410	Leadership Awards	0	0.0	0.00%	0.0	0.00%	7,736.6	0.65%
e411	Leadership Awards	587	5,768.5	0.48%	5,768.5	0.48%	12,066.4	1.01%
e412	Leadership Awards	86	19,114.7	1.61%	19,114.7	1.61%	7,833.1	0.66%
e421	Leadership Awards	3	414.9	0.03%	414.9	0.03%	0.0	0.00%
e426	Leadership Awards	0	0.0	0.00%	0.0	0.00%	10,831.2	0.91%
e453	Leadership Awards	442	1,306.9	0.11%	1,306.9	0.11%	4,332.5	0.36%
e460	Leadership Awards	189	23,686.4	1.99%	23,686.4	1.99%	10,508.8	0.88%
e461	Leadership Awards	44	3,396.7	0.29%	3,396.7	0.29%	7,736.6	0.65%
e462	Leadership Awards	178	4,455.8	0.37%	4,456.3	0.37%	5,374.3	0.45%
e463	Leadership Awards	0	0.0	0.00%	0.0	0.00%	5,880.8	0.49%
e464	Leadership Awards	772	8,653.1	0.73%	8,653.1	0.73%	8,983.9	0.75%
e465	Leadership Awards	17	2,111.5	0.18%	2,111.5	0.18%	18,026.5	1.51%
e466	Leadership Awards	192	29,081.6	2.44%	29,081.7	2.44%	10,521.8	0.88%
e467	Leadership Awards	1	1,384.2	0.12%	1,384.2	0.12%	8,596.7	0.72%
e468	Leadership Awards	22	10,539.7	0.89%	10,539.7	0.89%	10,708.5	0.90%
e469	Leadership Awards	151	22,377.2	1.88%	22,378.7	1.88%	21,653.2	1.82%
e507	Leadership Awards	609	7,871.1	0.66%	7,871.1	0.66%	8,265.8	0.69%
e509	Leadership Awards	366	4,332.0	0.36%	4,332.0	0.36%	6,153.8	0.52%
e510	Leadership Awards	0	0.0	0.00%	0.0	0.00%	7,736.6	0.65%

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e526	Leadership Awards	0	0.0	0.00%	0.0	0.00%	3,177.5	0.27%
n07	Leadership Awards	21	2,423.5	0.20%	2,423.5	0.20%	5,912.5	0.50%
n08	Leadership Awards	110	9,519.8	0.80%	9,520.2	0.80%	8,684.8	0.73%
c01	Class1a	182	5.0	0.00%	5.0	0.00%	3,771.9	0.32%
e174	Class1a	58	4,885.3	0.41%	4,885.3	0.41%	1,893.5	0.16%
e229	Class1a	0	0.0	0.00%	0.0	0.00%	418.7	0.04%
e272	Class1a	47	1,498.5	0.13%	1,498.5	0.13%	6,923.1	0.58%
e291	Class1a	109	63.0	0.01%	63.0	0.01%	184.9	0.02%
e300	Class1a	13	104.4	0.01%	104.4	0.01%	525.5	0.04%
e304	Class1a	211	4,443.6	0.37%	4,599.4	0.39%	5,064.2	0.43%
e341	Class1a	0	0.0	0.00%	0.0	0.00%	5,769.2	0.48%
e358	Class1a	218	1,079.7	0.09%	1,079.7	0.09%	676.3	0.06%
e365	Class1a	24	1,358.7	0.11%	1,358.7	0.11%	496.3	0.04%
e375	Class1a	0	0.0	0.00%	0.0	0.00%	2,629.2	0.22%
e378	Class1a	0	0.0	0.00%	0.0	0.00%	4,455.9	0.37%
e403	Class1a	0	0.0	0.00%	0.0	0.00%	46.4	0.00%
e429	Class1a	2	279.2	0.02%	279.2	0.02%	5,415.6	0.45%
e431	Class1a	58	115.7	0.01%	115.7	0.01%	991.8	0.08%
e432	Class1a	153	9,262.7	0.78%	9,262.7	0.78%	4,564.6	0.38%
e446	Class1a	734	2,443.7	0.21%	2,444.2	0.21%	15,882.2	1.33%
e448	Class1a	773	15,562.4	1.31%	15,562.4	1.31%	19,230.8	1.62%
e451	Class1a	29	528.7	0.04%	528.7	0.04%	4,230.8	0.36%
e452	Class1a	79	4,592.9	0.39%	4,592.9	0.39%	1,547.3	0.13%
e474	Class1a	65	1,390.4	0.12%	1,390.4	0.12%	1,005.5	0.08%
e475	Class1a	114	605.6	0.05%	605.6	0.05%	2,485.2	0.21%
e477	Class1a	33	2,894.1	0.24%	2,894.1	0.24%	3,868.3	0.32%
e480	Class1a	21	2,441.7	0.21%	2,441.7	0.21%	5,366.9	0.45%
e499	Class1a	5	131.1	0.01%	131.1	0.01%	7,734.8	0.65%
e513	Class1a	0	0.0	0.00%	0.0	0.00%	123.8	0.01%
e515	Class1a	19	0.1	0.00%	0.1	0.00%	773.7	0.06%
e516	Class1a	56	7,826.2	0.66%	7,826.2	0.66%	5,950.0	0.50%
e520	Class1a	5	0.1	0.00%	0.1	0.00%	773.7	0.06%
e523	Class1a	0	0.0	0.00%	0.0	0.00%	3,094.6	0.26%
e527	Class1a	0	0.0	0.00%	0.0	0.00%	255.3	0.02%
e348	Direct Access: ARCHER RAP	177	1,763.3	0.15%	1,763.3	0.15%	1,534.2	0.13%
e402	Direct Access: ARCHER RAP	24	17.6	0.00%	17.6	0.00%	1,018.7	0.09%
e483	Direct Access: ARCHER RAP	623	3,705.7	0.31%	3,705.7	0.31%	2,923.1	0.25%
e484	Direct Access: ARCHER RAP	11	533.3	0.04%	533.3	0.04%	954.5	0.08%
e485	Direct Access: ARCHER RAP	67	5,540.6	0.47%	5,540.6	0.47%	3,000.0	0.25%
e489	Direct Access: ARCHER RAP	0	0.0	0.00%	0.0	0.00%	864.0	0.07%
e491	Direct Access: ARCHER RAP	112	984.5	0.08%	984.5	0.08%	1,150.7	0.10%
e492	Direct Access: ARCHER RAP	63	1,133.6	0.10%	1,133.6	0.10%	3,076.9	0.26%
e494	Direct Access: ARCHER RAP	513	5,629.1	0.47%	5,629.1	0.47%	2,010.5	0.17%
e498	Direct Access: ARCHER RAP	55	1,402.3	0.12%	1,402.3	0.12%	1,901.8	0.16%
e500	Direct Access: ARCHER RAP	72	3,464.3	0.29%	3,464.3	0.29%	3,076.9	0.26%
e501	Direct Access: ARCHER RAP	9	1,585.8	0.13%	1,585.8	0.13%	3,462.3	0.29%
e504	Direct Access: ARCHER RAP	15	348.9	0.03%	348.9	0.03%	908.5	0.08%

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e505	Direct Access: ARCHER RAP	79	2,922.7	0.25%	2,922.7	0.25%	432.9	0.04%
e511	Direct Access: ARCHER RAP	999	412.3	0.03%	412.3	0.03%	2,301.4	0.19%
e486	Instant Access	0	0.0	0.00%	0.0	0.00%	92.1	0.01%
e487	Instant Access	108	36.8	0.00%	36.8	0.00%	154.7	0.01%
e506	Instant Access	0	0.0	0.00%	0.0	0.00%	56.8	0.00%
e512	Instant Access	5	0.2	0.00%	0.2	0.00%	184.7	0.02%
e522	Instant Access	7	0.0	0.00%	0.0	0.00%	185.7	0.02%
e525	Instant Access	30	28.5	0.00%	28.5	0.00%	176.8	0.01%
e528	Instant Access	29	51.4	0.00%	51.4	0.00%	92.8	0.01%
e524	Research	0	0.0	0.00%	0.0	0.00%	19,151.0	1.61%
ecse0410	eCSE	0	0.0	0.00%	0.0	0.00%	41.0	0.00%
i07	Industrial	0	0.0	0.00%	0.0	0.00%	1,010.3	0.08%
e476	Training	182	345.0	0.03%	345.0	0.03%	3,111.4	0.26%
e495	Training	57	290.9	0.02%	290.9	0.02%	2,065.6	0.17%
e508	Training	316	3,504.3	0.29%	3,504.3	0.29%	2,414.6	0.20%
e521	Training	273	1,069.1	0.09%	1,069.1	0.09%	692.8	0.06%
EPSRC Total		86,875	825,735.4	69.38%	826,437.9	69.43%	844,758.9	70.97%
n01	Consortia	2,940	35,656.7	3.00%	35,557.7	2.99%	52,164.4	4.38%
n02	Consortia	11,114	113,166.1	9.51%	110,823.3	9.31%	207,123.3	17.40%
n03	Consortia	2,512	85,409.6	7.18%	86,666.8	7.28%	53,698.6	4.51%
NERC Total		16,566	234,232.4	19.68%	233,047.8	19.58%	312,986.3	26.30%
b16	Class1a	27	801.3	0.07%	801.3	0.07%	265.5	0.02%
b18	Research	38	1,700.4	0.14%	1,700.4	0.14%	835.8	0.07%
BBSRC Total		65	2,501.7	0.21%	2,501.7	0.21%	1,101.3	0.09%
pr1u1351	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	4,865.3	0.41%
pr1u1352	DECI: EXEC	18	25.1	0.00%	25.1	0.00%	202.1	0.02%
pr1u1353	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	4,295.1	0.36%
pr1u1354	DECI: EXEC	34	6,528.6	0.55%	6,528.6	0.55%	2,021.2	0.17%
pr1u1355	DECI: EXEC	0	0.0	0.00%	0.0	0.00%	1,768.6	0.15%
pr1u1356	DECI: EXEC	46	1,219.2	0.10%	1,219.3	0.10%	884.3	0.07%
pr1u1357	DECI: EXEC	45	569.9	0.05%	569.9	0.05%	1,296.5	0.11%
pr1u1358	DECI: EXEC	58	2,876.9	0.24%	2,876.9	0.24%	5,306.1	0.45%
pr1u1359	DECI: EXEC	95	2,371.7	0.20%	2,371.7	0.20%	2,005.7	0.17%
pr1u1360	DECI: EXEC	130	1,491.1	0.13%	1,491.2	0.13%	3,153.5	0.26%
pr1u1361	DECI: EXEC	136	80.4	0.01%	80.4	0.01%	3,407.1	0.29%
pr1u1362	DECI: EXEC	78	129.0	0.01%	129.2	0.01%	744.7	0.06%
pr1u1301	DECI: HOME	0	0.0	0.00%	0.0	0.00%	429.5	0.04%
pr1u1302	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1303	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1304	DECI: HOME	0	0.0	0.00%	0.0	0.00%	3,879.8	0.33%
pr1u1305	DECI: HOME	4	0.0	0.00%	70.3	0.01%	0.1	0.00%
pr1u1306	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1307	DECI: HOME	0	0.0	0.00%	0.0	0.00%	946.0	0.08%
pr1u1308	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1309	DECI: HOME	0	0.0	0.00%	0.0	0.00%	0.1	0.00%
pr1u1310	DECI: HOME	0	0.0	0.00%	0.0	0.00%	2,331.5	0.20%
pr1u1311	DECI: HOME	31	164.3	0.01%	164.3	0.01%	612.6	0.05%
PRACE Total		675	15,456.1	1.30%	15,526.9	1.30%	38,150.2	3.21%
ecse0103	eCSE	0	0.0	0.00%	0.0	0.00%	24.0	0.00%
ecse0311	eCSE	6	4.9	0.00%	4.9	0.00%	36.8	0.00%
ecse0313	eCSE	0	0.0	0.00%	0.0	0.00%	22.0	0.00%
ecse0601	eCSE	54	30.9	0.00%	30.9	0.00%	41.0	0.00%
ecse0606	eCSE	0	0.0	0.00%	0.0	0.00%	34.6	0.00%
ecse0706	eCSE	0	0.0	0.00%	0.0	0.00%	37.8	0.00%
ecse0709	eCSE	0	0.0	0.00%	0.0	0.00%	32.6	0.00%
ecse0712	eCSE	0	0.0	0.00%	0.0	0.00%	192.4	0.02%
ecse0715	eCSE	0	0.0	0.00%	0.0	0.00%	37.9	0.00%
ecse0803	eCSE	0	0.0	0.00%	0.0	0.00%	9.0	0.00%
ecse0804	eCSE	13	0.3	0.00%	0.3	0.00%	34.4	0.00%
ecse0807	eCSE	182	87.6	0.01%	87.6	0.01%	35.2	0.00%
ecse0810	eCSE	0	0.0	0.00%	0.0	0.00%	35.4	0.00%

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ecse0814	eCSE	0	0.0	0.00%	0.0	0.00%	41.1	0.00%
ecse0815	eCSE	0	0.0	0.00%	0.0	0.00%	37.1	0.00%
eCSE Total		255	123.6	0.01%	123.6	0.01%	651.4	0.05%
d43	ECDF	684	4,466.7	0.38%	4,466.7	0.38%	3,068.5	0.26%
d25	Research	5	25.9	0.00%	25.9	0.00%	767.1	0.06%
d35	Research	234	195.1	0.02%	195.1	0.02%	383.6	0.03%
d56	Research	251	8,261.9	0.69%	8,261.9	0.69%	4,642.0	0.39%
d60	Research	0	0.0	0.00%	0.0	0.00%	184.2	0.02%
d63	Research	0	0.0	0.00%	0.0	0.00%	309.3	0.03%
d65	Research	0	0.0	0.00%	0.0	0.00%	51.2	0.00%
d67	Research	151	997.9	0.08%	997.9	0.08%	1,167.1	0.10%
d71	Research	230	1,466.5	0.12%	1,466.8	0.12%	522.0	0.04%
d72	Research	5	4.8	0.00%	4.8	0.00%	153.4	0.01%
d87	Research	27	583.7	0.05%	583.7	0.05%	1,314.7	0.11%
d88	Research	18	36.6	0.00%	36.6	0.00%	19.2	0.00%
d96	Research	64	1,773.0	0.15%	1,773.0	0.15%	3,835.6	0.32%
d100	Research	5	2.9	0.00%	2.9	0.00%	328.6	0.03%
d101	Research	19	1.3	0.00%	1.5	0.00%	383.6	0.03%
d114	Research	60	14,699.6	1.24%	14,699.6	1.24%	7,534.3	0.63%
d120	Research	0	0.0	0.00%	0.0	0.00%	282.3	0.02%
d121	Research	0	0.0	0.00%	0.0	0.00%	0.0	0.00%
d137	Research	33	162.9	0.01%	162.9	0.01%	2,301.4	0.19%
d141	Research	519	296.9	0.02%	297.7	0.03%	230.1	0.02%
d142	Research	83	3,796.0	0.32%	3,796.0	0.32%	4,192.1	0.35%
d143	Research	1	0.0	0.00%	0.0	0.00%	3,868.3	0.32%
d144	Research	26	758.8	0.06%	758.8	0.06%	2,283.1	0.19%
d145	Research	20	7.7	0.00%	7.7	0.00%	2,301.4	0.19%
d132	Industrial	20	131.4	0.01%	131.4	0.01%	184.2	0.02%
x08	Industrial	89	246.0	0.02%	246.0	0.02%	1,227.4	0.10%
d74	Training	685	17.2	0.00%	17.2	0.00%	23.0	0.00%
d104	Training	114	1.6	0.00%	1.6	0.00%	154.7	0.01%
d122	Training	456	41.9	0.00%	34.0	0.00%	1,559.9	0.13%
d133	Training	0	0.0	0.00%	0.0	0.00%	38.4	0.00%
e482	Training	0	0.0	0.00%	0.0	0.00%	460.3	0.04%
d131	Service	232	118.3	0.01%	118.3	0.01%	769.2	0.06%
d134	Service	0	0.0	0.00%	0.0	0.00%	383.6	0.03%
w06	Service	14	3,830.4	0.32%	3,830.4	0.32%	223.1	0.02%
y01	Service	0	0.0	0.00%	0.0	0.00%	7.7	0.00%
y02	Service	70	0.8	0.00%	0.8	0.00%	153.4	0.01%
y07	Service	6	0.0	0.00%	0.1	0.00%	153.4	0.01%
z02	Service	1	0.0	0.00%	0.0	0.00%	383.6	0.03%
z17	Service	14	81.9	0.01%	81.9	0.01%	383.6	0.03%
z99	Service	36	0.3	0.00%	0.3	0.00%	7.7	0.00%
d84	UoE Seedcorn	17	2,188.9	0.18%	2,188.9	0.18%	383.6	0.03%
d135	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	177.1	0.01%
d140	UoE Seedcorn	0	0.0	0.00%	0.0	0.00%	191.8	0.02%
d83	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	4,675.7	0.39%
d108	UoE Supercomputing	0	0.0	0.00%	0.0	0.00%	781.5	0.07%
DirectorsTime Total		4,189	44,197.1	3.71%	44,190.6	3.71%	52,445.7	4.41%
y14	Training	1,200	841.3	0.07%	562.3	0.05%	537.0	0.05%
y21	Service	0	0.0	0.00%	0.0	0.00%	70.7	0.01%
z19	Service	519	116.0	0.01%	116.6	0.01%	4,986.3	0.42%
CSE Total		1,719	957.3	0.08%	678.9	0.06%	5,594.0	0.47%
i18	Industrial	0	0.0	0.00%	0.0	0.00%	2,900.1	0.24%
i200	Industrial	0	0.0	0.00%	0.0	0.00%	7.3	0.00%
Industrial Total		0	0.0	0.00%	0.0	0.00%	2,907.4	0.24%
w03	Service	31	132.3	0.01%	132.3	0.01%	87.6	0.01%
Internal Total		31	132.3	0.01%	132.3	0.01%	87.6	0.01%
Total		110,375	1,123,336.1	94.38%	1,122,639.8	94.32%	1,258,682.9	105.75%

Use by Project

Legend:
- e05
- n02
- e89
- n03
- e01
- n01
- e280
- e466
- e460
- e305
- Others

30%
10%
9%
8%
5%
3%
3%
3%
2%
2%
25%

Uncharged Use by Project

Legend:
- n03
- e05
- e304
- pr1u1305
- n01
- n02
- e01
- e89
- e305
- e469
- Others

Values around pie: 0%, 0%, 0%, 1%, 1%, 2%, 3%, 3%, 7%, 24%, 59%

Jobs by Project

Legend:
- e280
- e89
- n02
- e05
- n01
- n03
- e281
- y14
- e511
- e305
- Others

Pie chart percentages: 38%, 18%, 15%, 10%, 10%, 3%, 2%, 1%, 1%, 1%, 1%
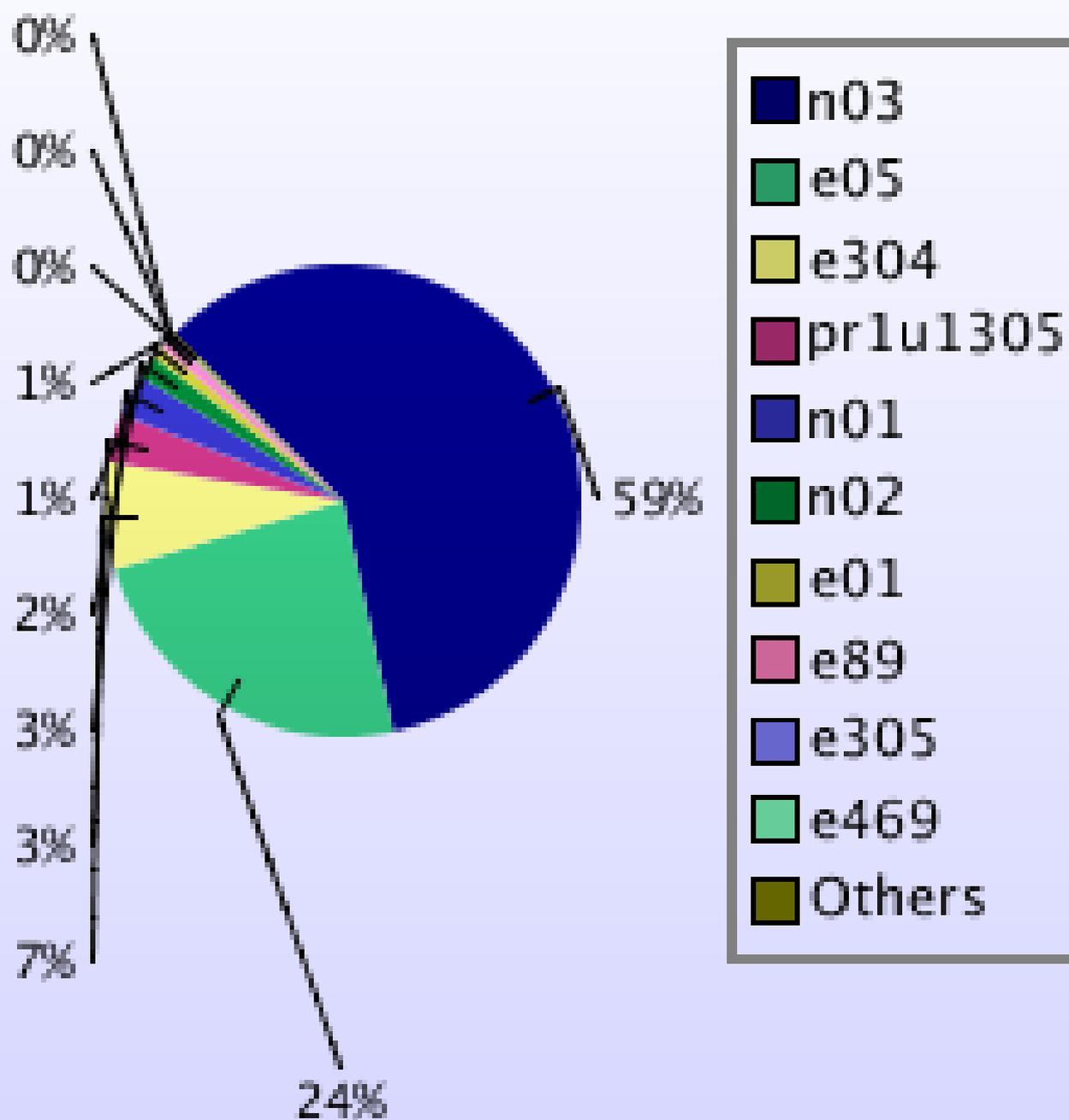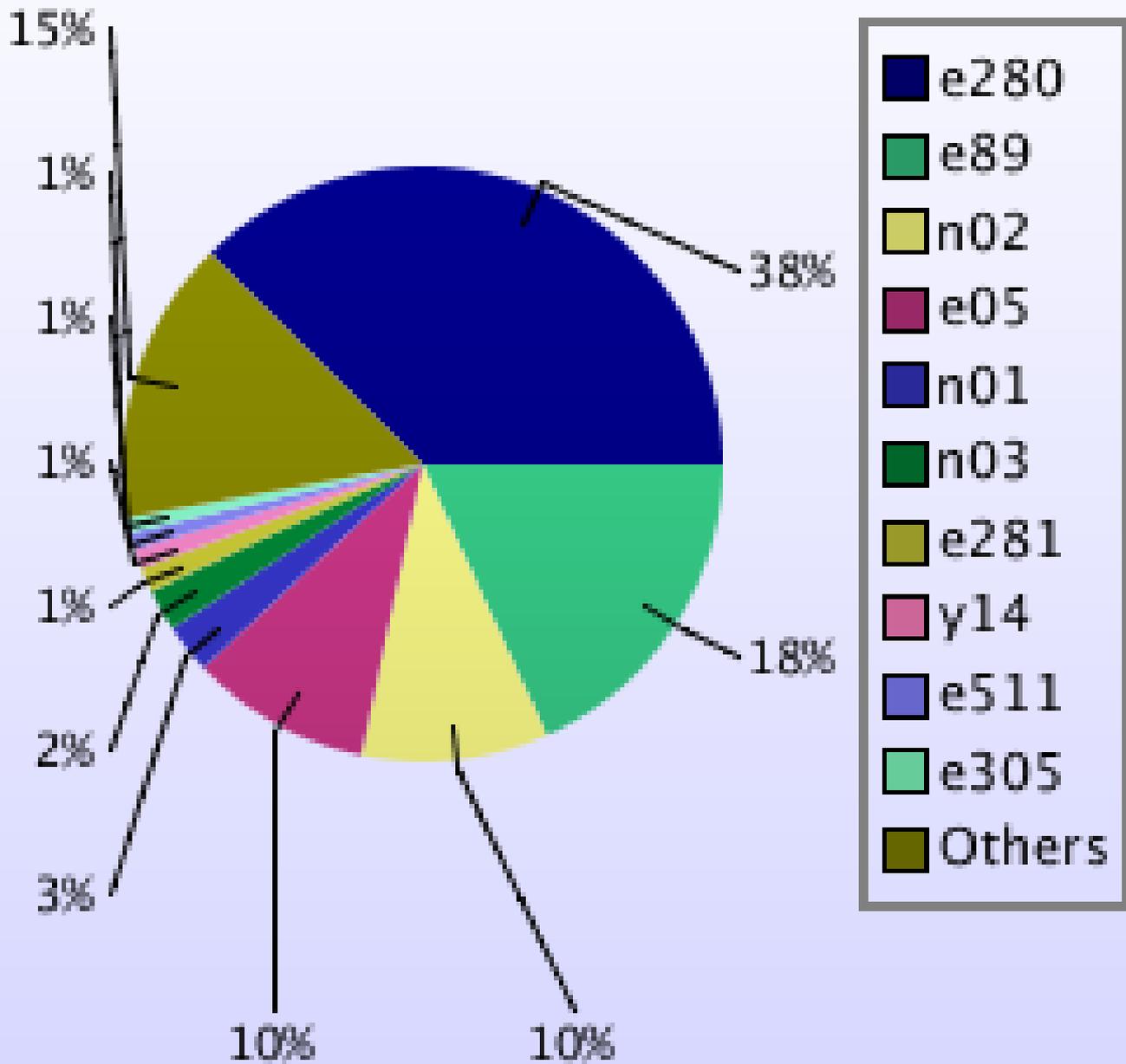
kAUs (by Size)

Size	kAUs	Number of Jobs
17-32	14,030.006	20,809
33-64	10,846.207	4,785
65-128	96,487.634	14,363
129-256	181,071.925	15,899
257-512	162,960.68	9,420

Size	kAUs	Number of Jobs
513-1024	230,016.987	42,706
1025-2048	174,332.495	1,406
2049-4096	142,712.925	609
4097-8192	51,452.047	214
8193-16384	18,586.777	76
16385-32768	32,369.014	62

Load plots
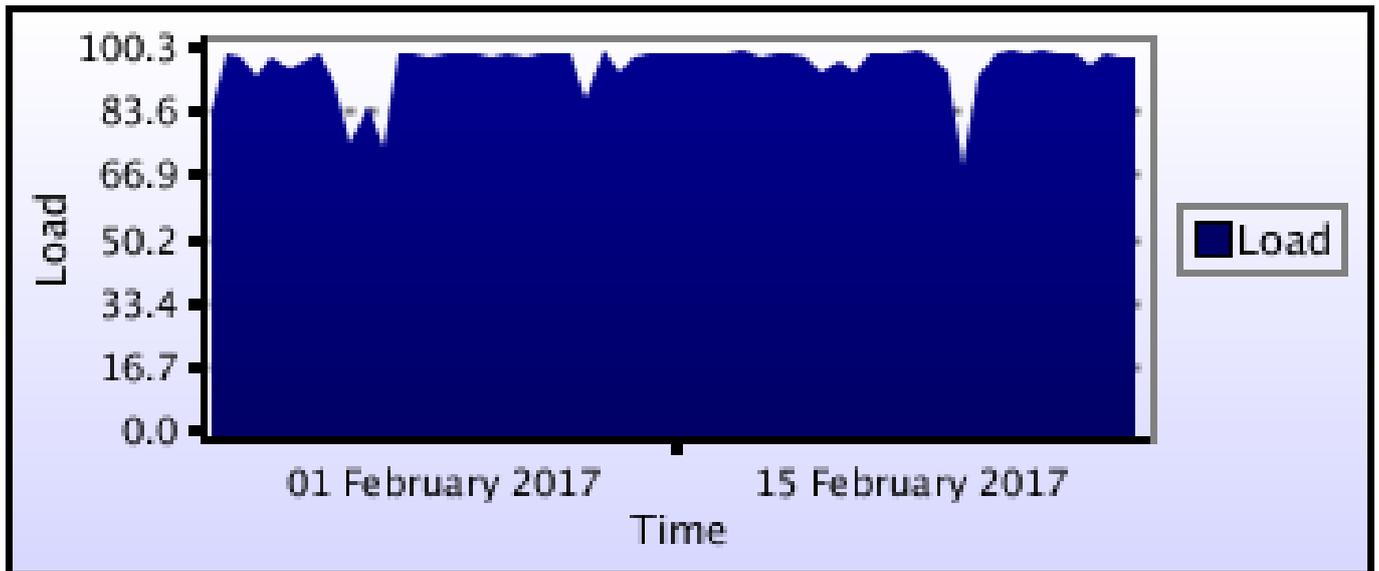
Percentage load on machine

Jobs by Size

Legend:
- 513-1024
- 17-32
- 129-256
- 65-128
- 257-512
- 33-64
- 1025-2048
- 2049-4096
- 4097-8192
- 8193-16384
- 16385-32768

Percentages shown: 39%, 19%, 14%, 13%, 9%, 4%, 1%, 1%, 0%, 0%, 0%

kAUs used by Size

Legend:
- 513–1024
- 129–256
- 1025–2048
- 257–512
- 2049–4096
- 65–128
- 4097–8192
- 16385–32768
- 8193–16384
- 17–32
- 33–64

Percentages shown: 21%, 16%, 16%, 15%, 13%, 9%, 5%, 3%, 2%, 1%, 1%

■	1
■	17-32
■	9-16
■	5-8
■	2
■	3-4
■	33-64
■	65-128
■	129-256
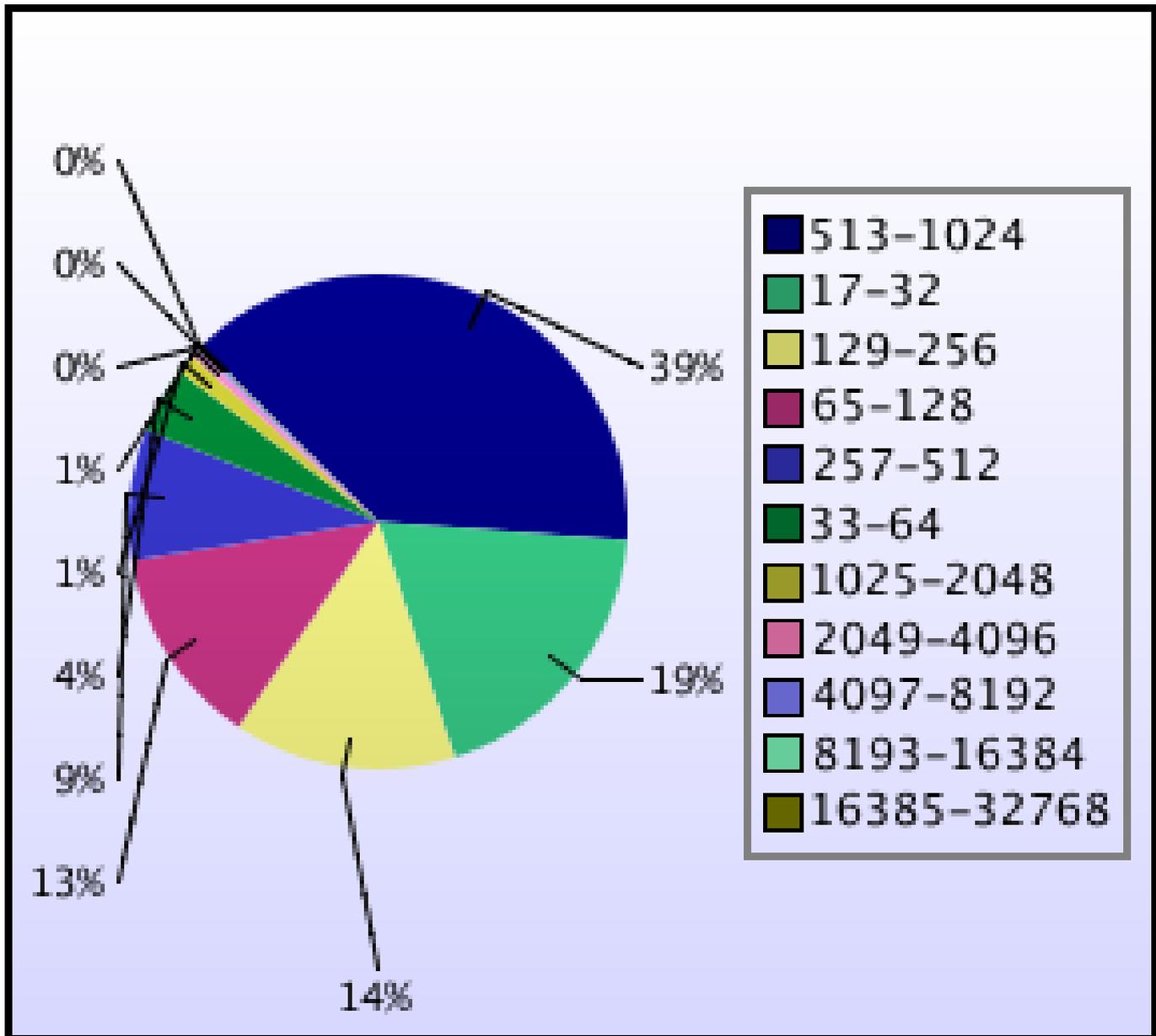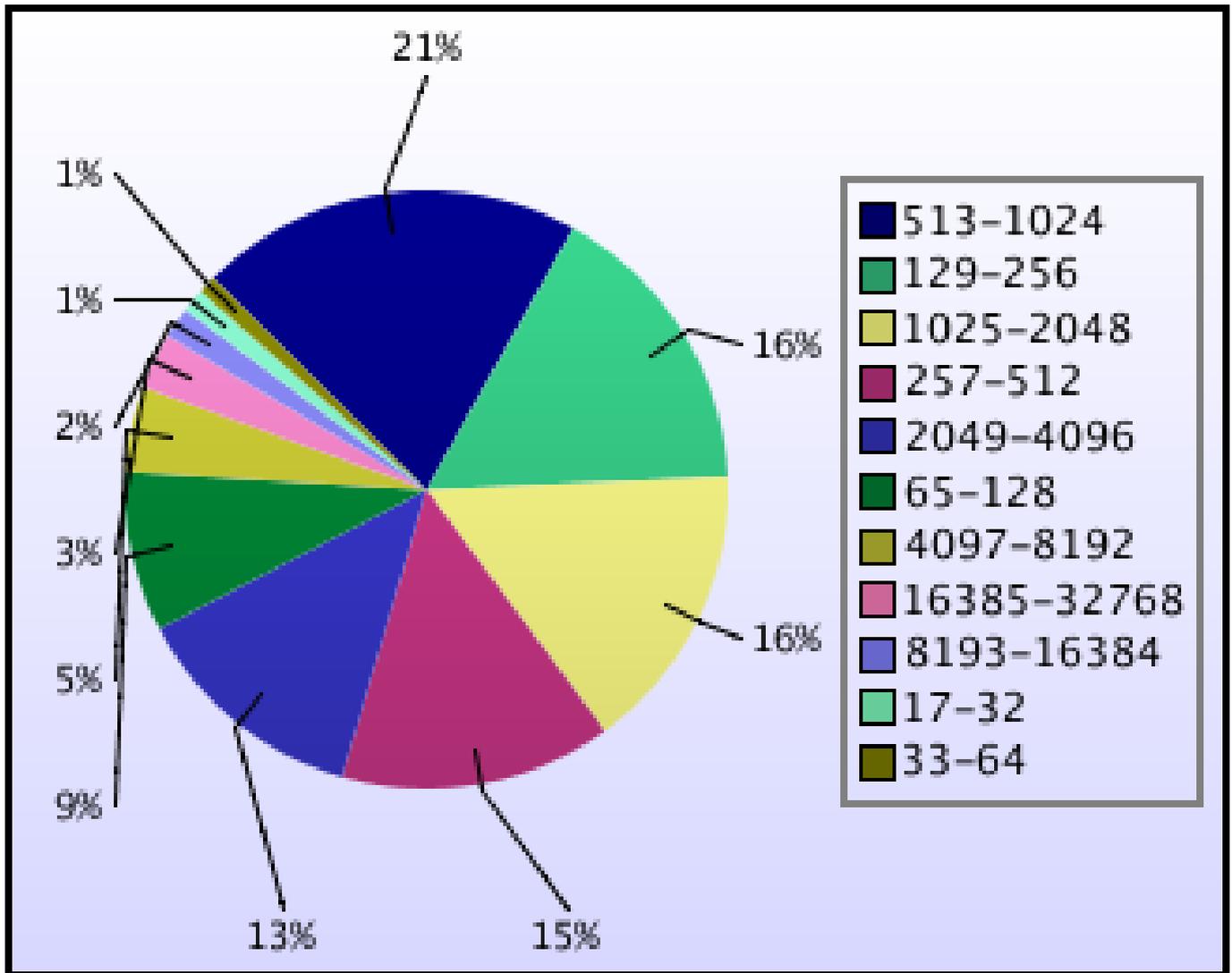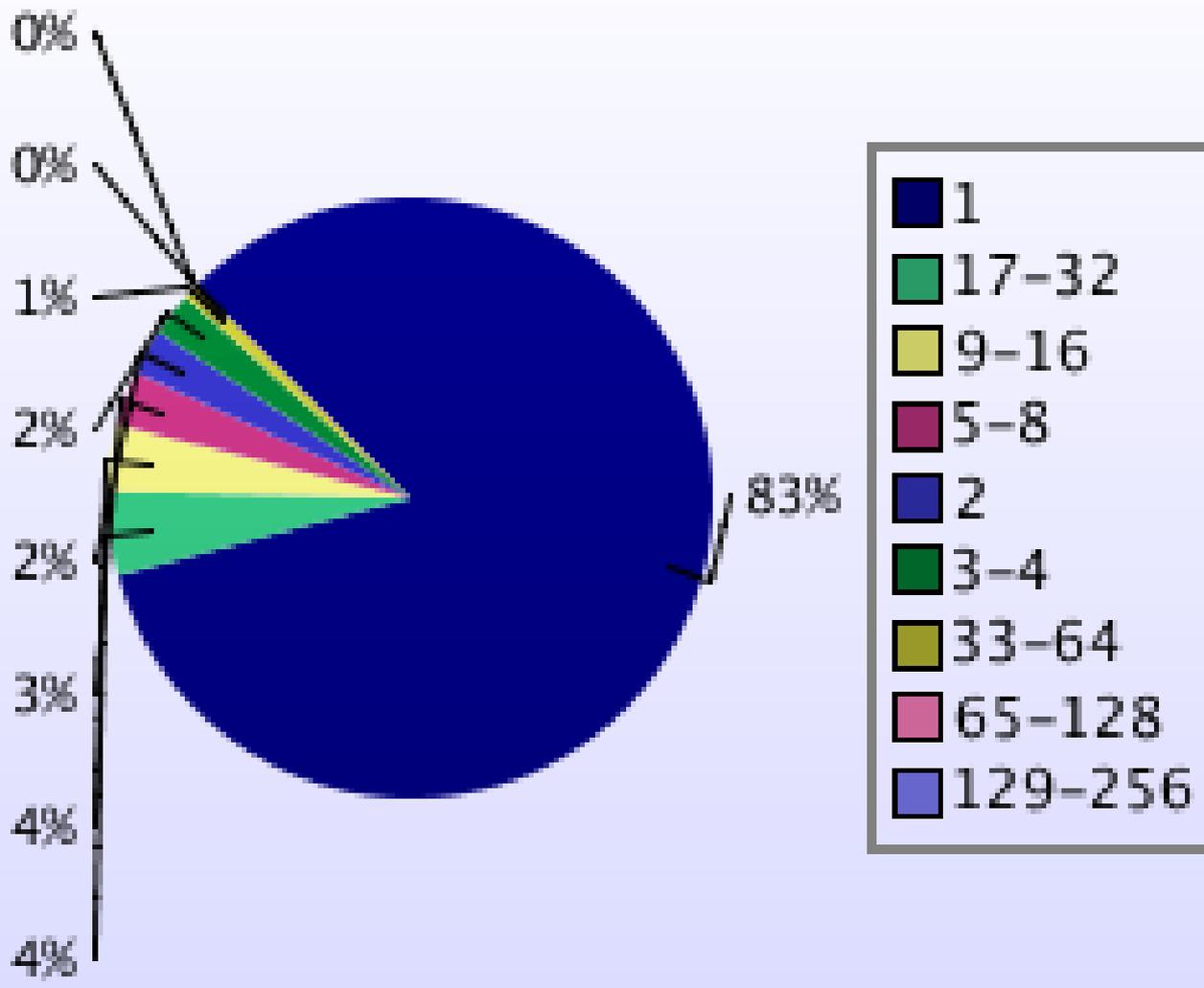
Jobs grouped by wall-clock-hours
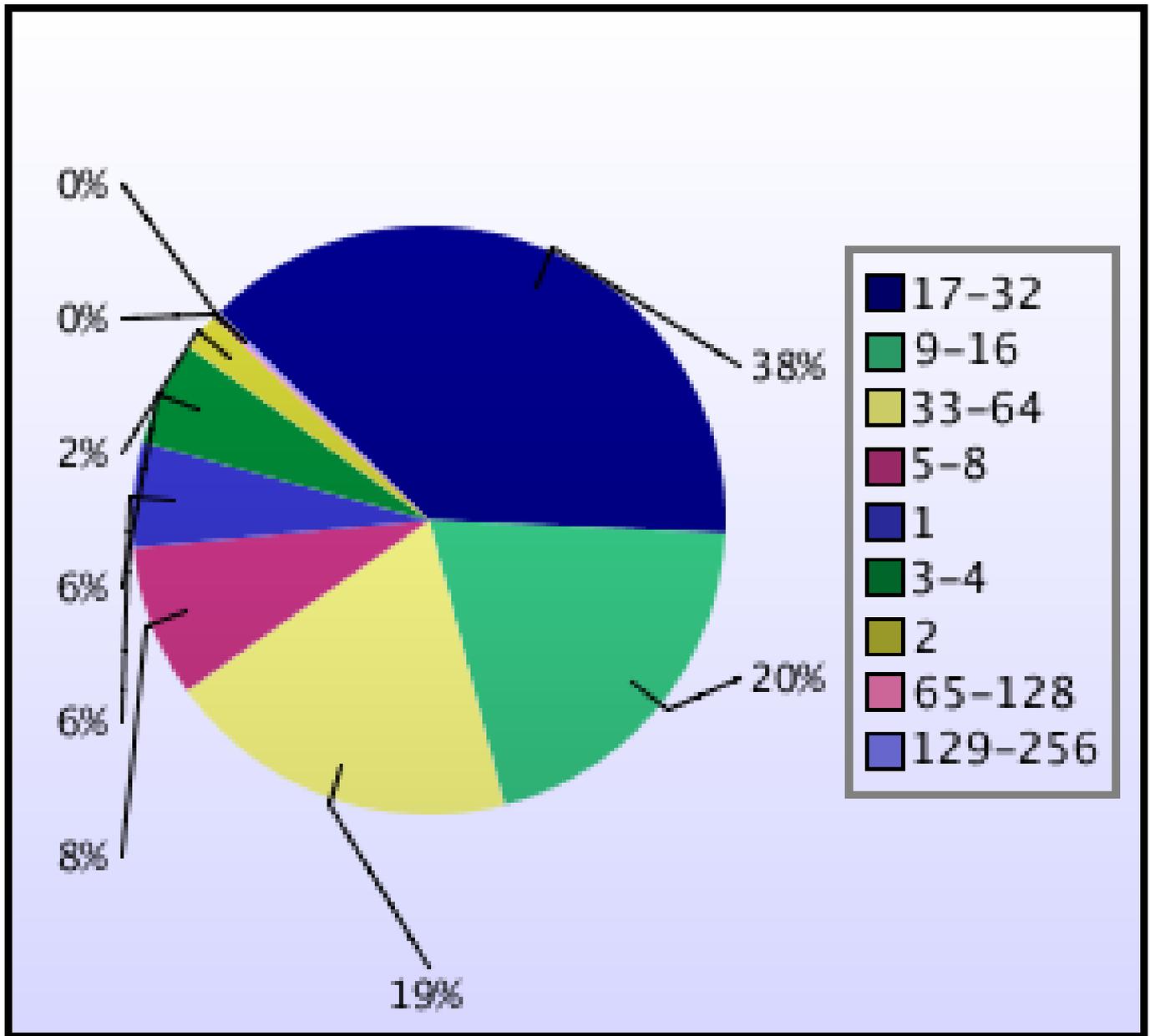
kAUs used grouped by wall-clock-hours
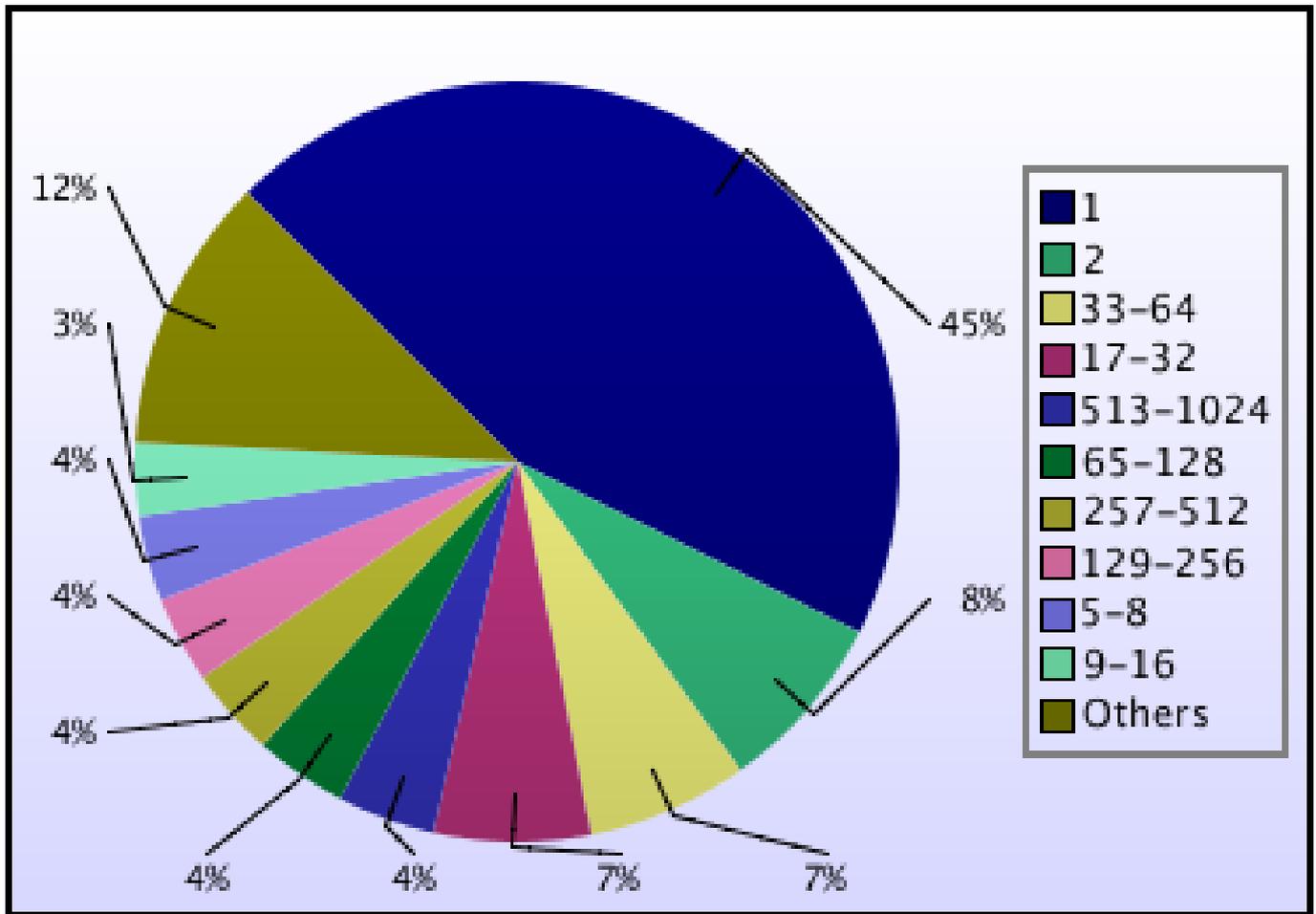
Jobs grouped by core-hours

Legend:
- 1
- 2
- 33–64
- 17–32
- 513–1024
- 65–128
- 257–512
- 129–256
- 5–8
- 9–16
- Others

Percentages shown: 45%, 8%, 7%, 7%, 4%, 4%, 4%, 4%, 4%, 3%, 12%

18%

4%

1%

2%

4%

6%

11%

11%

12%

16%

15%

16385–32768
8193–16384
4097–8192
2049–4096
32769–65536
65537–131072
1025–2048
513–1024
257–512
262145–524288
Others
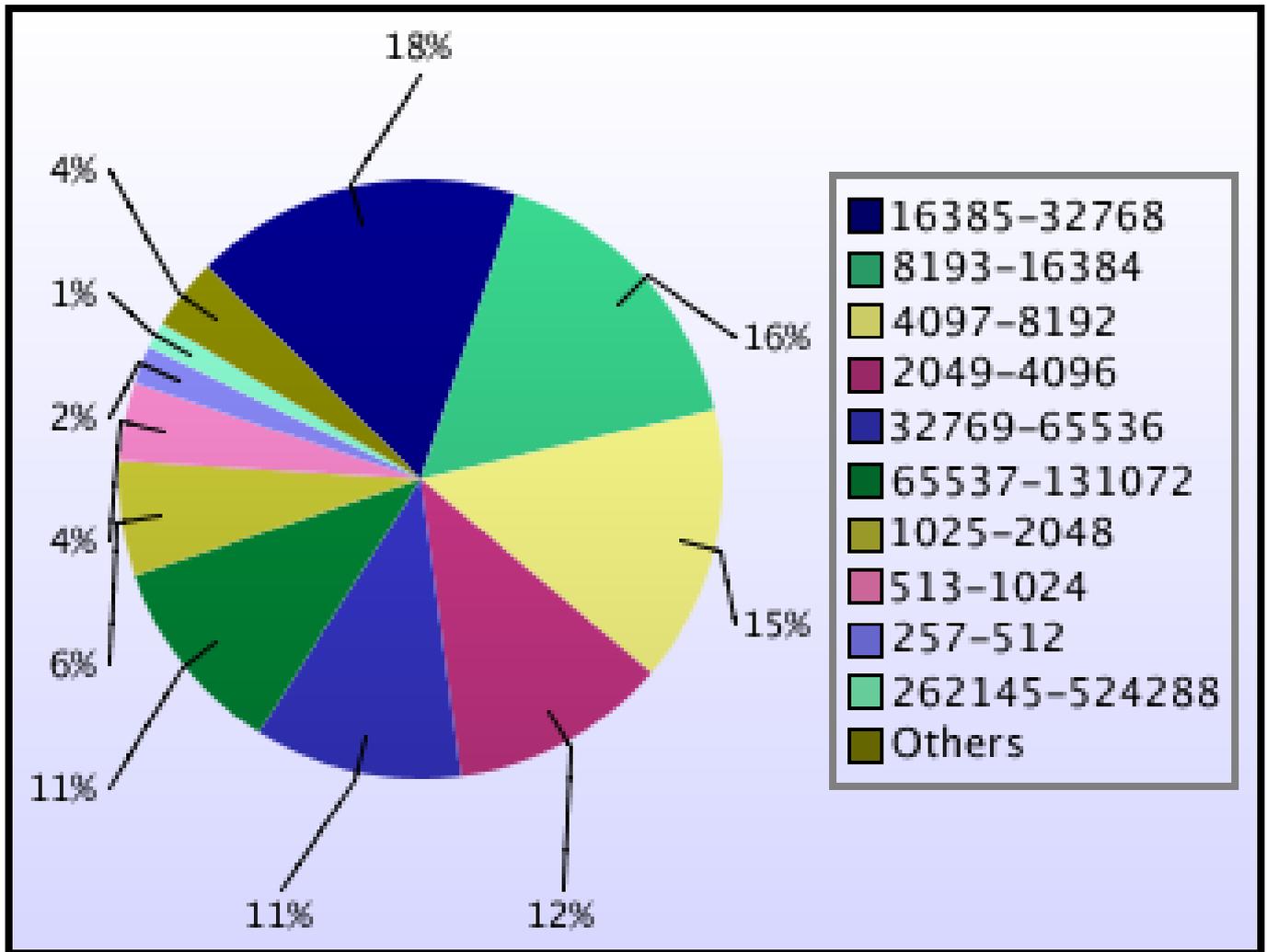
kAUs used grouped by core-hours

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.
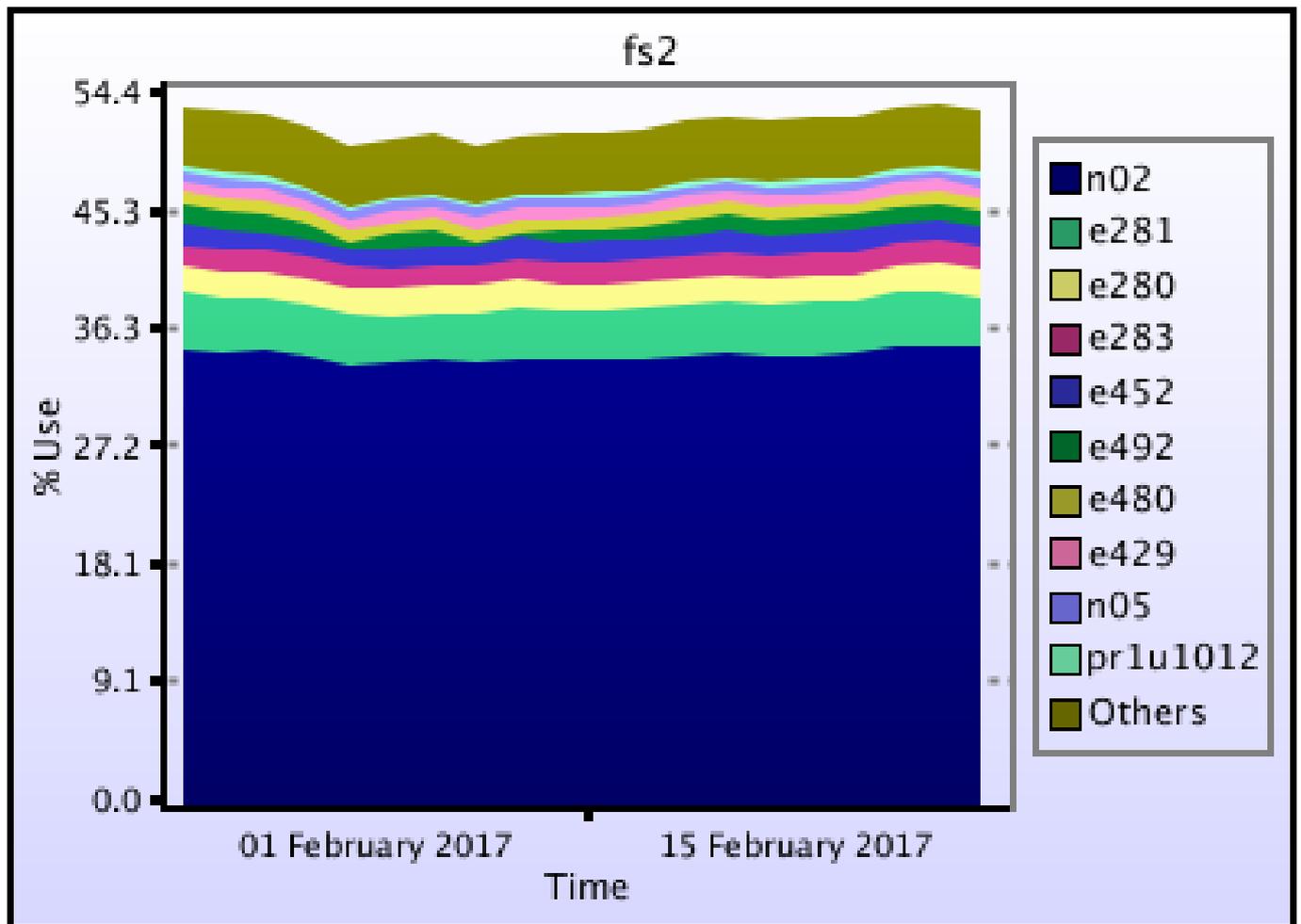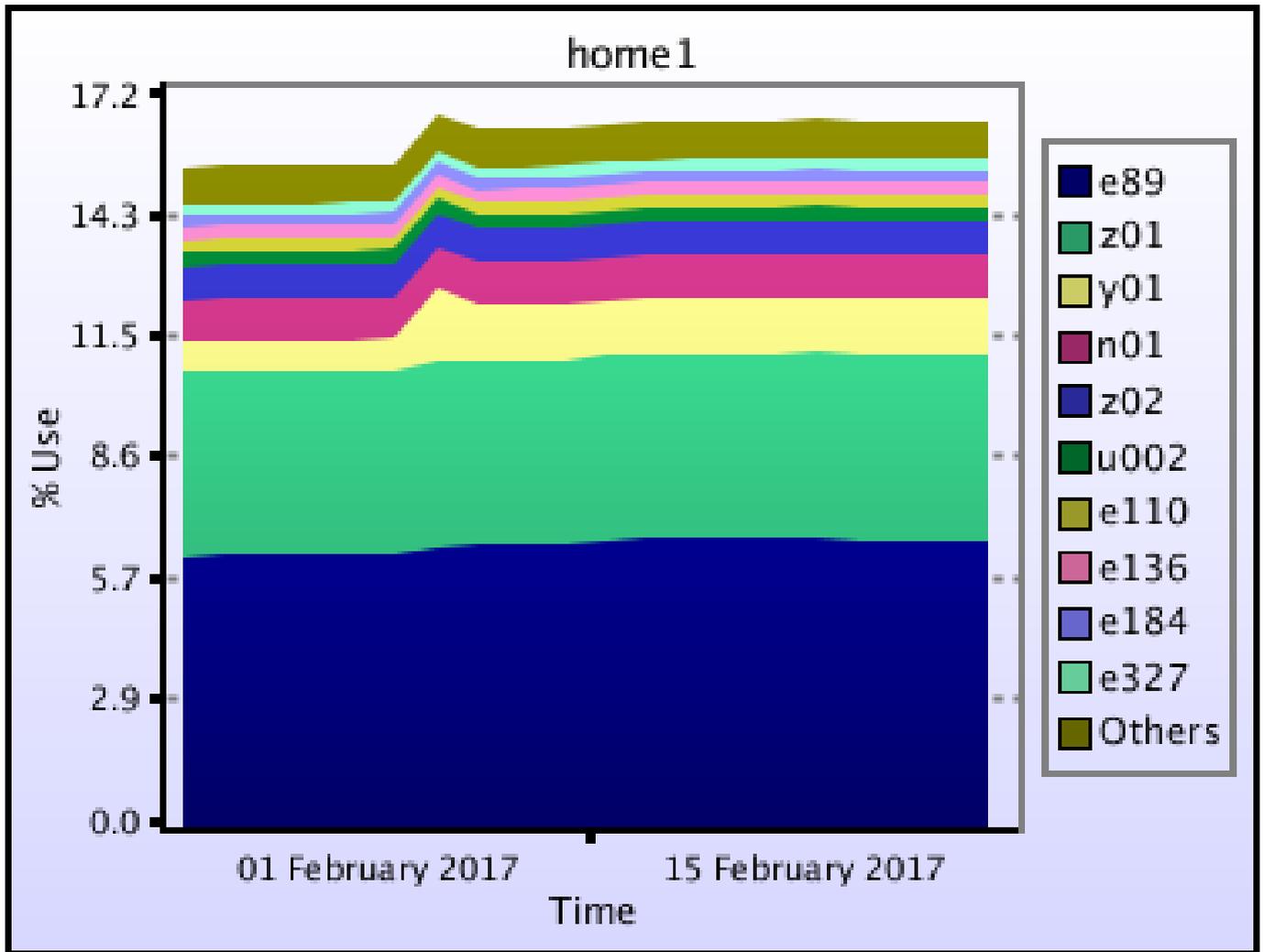

Disk usage for work (fs3)

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.
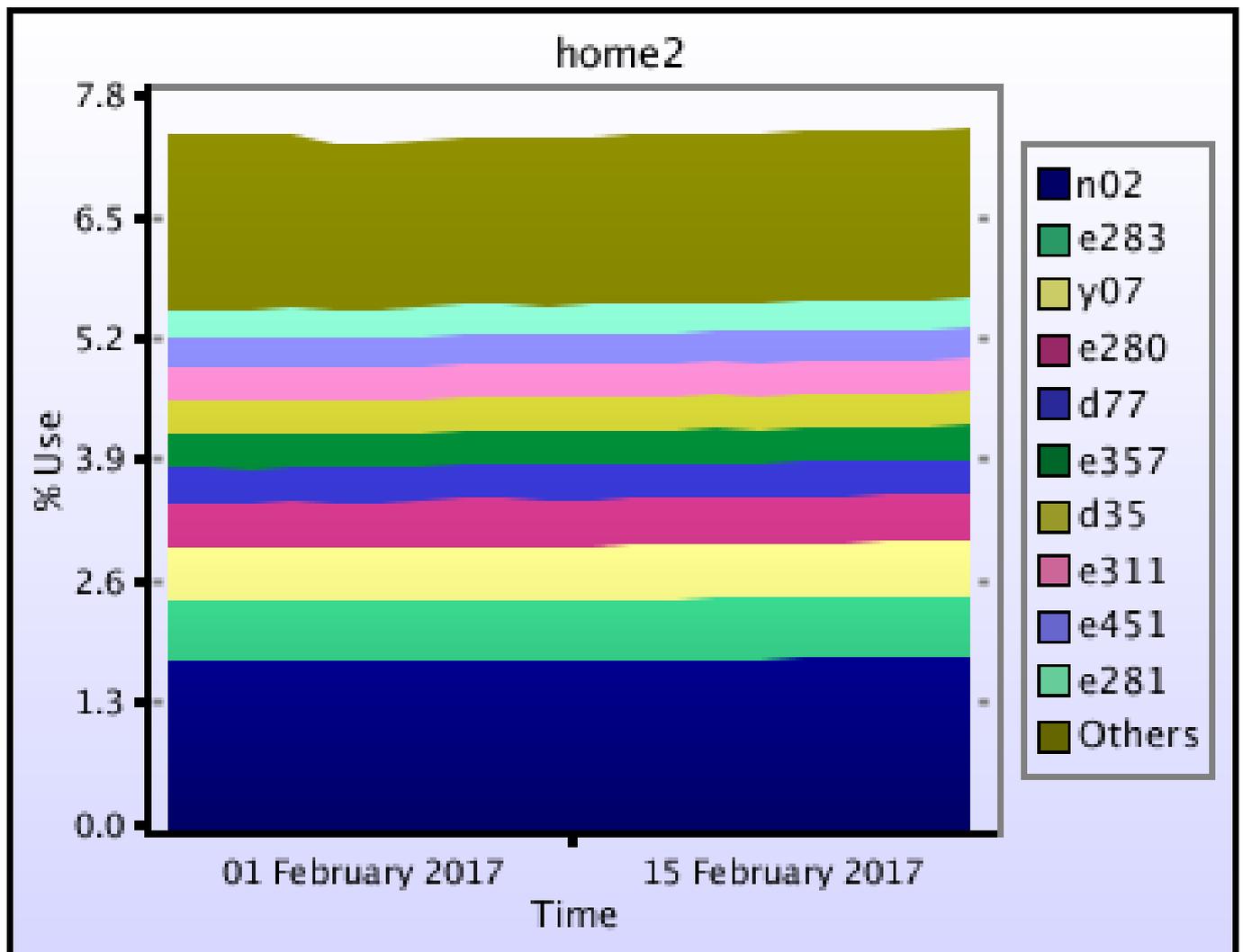
fs3
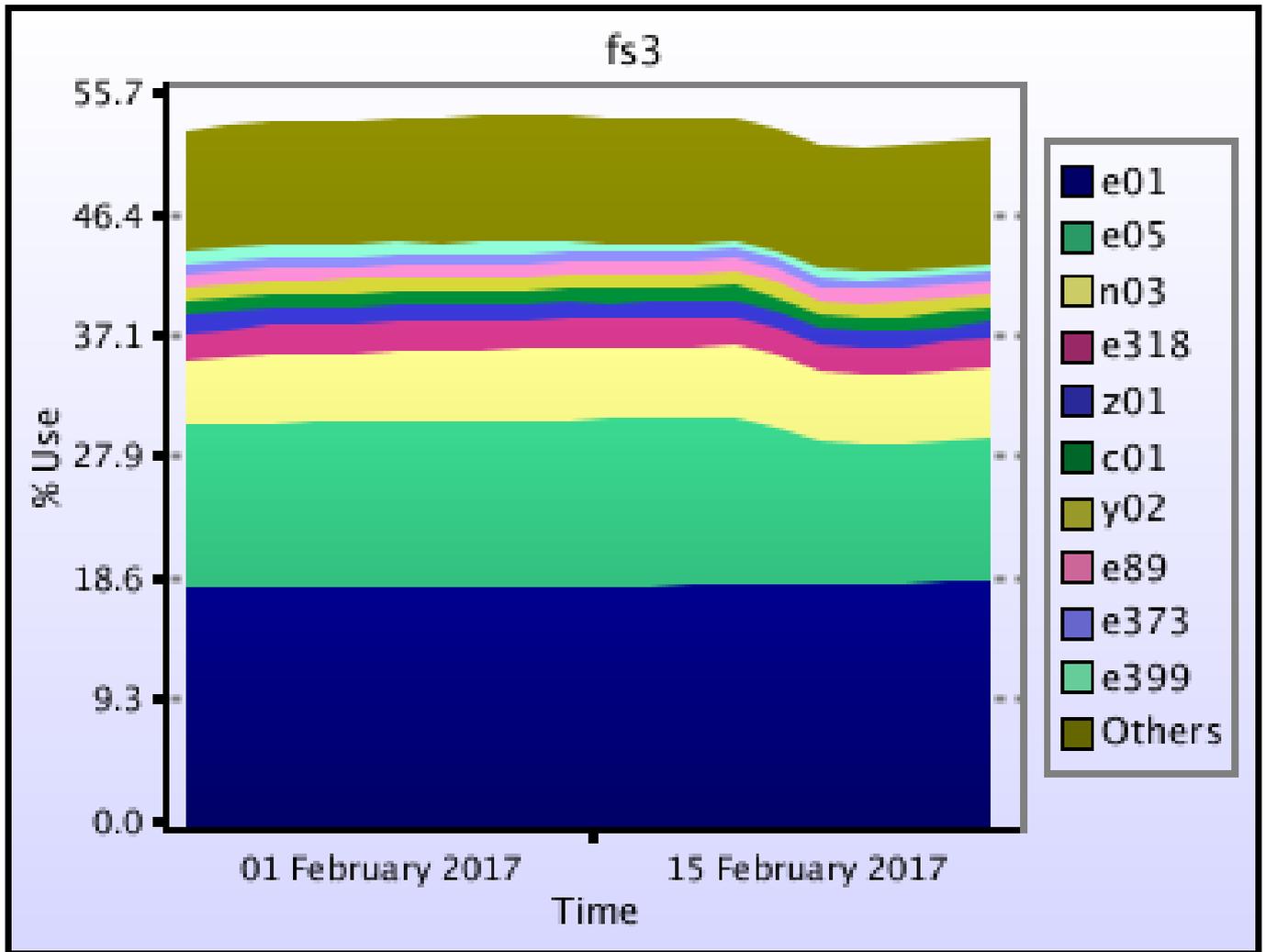
Disk usage for work (fs4)

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.
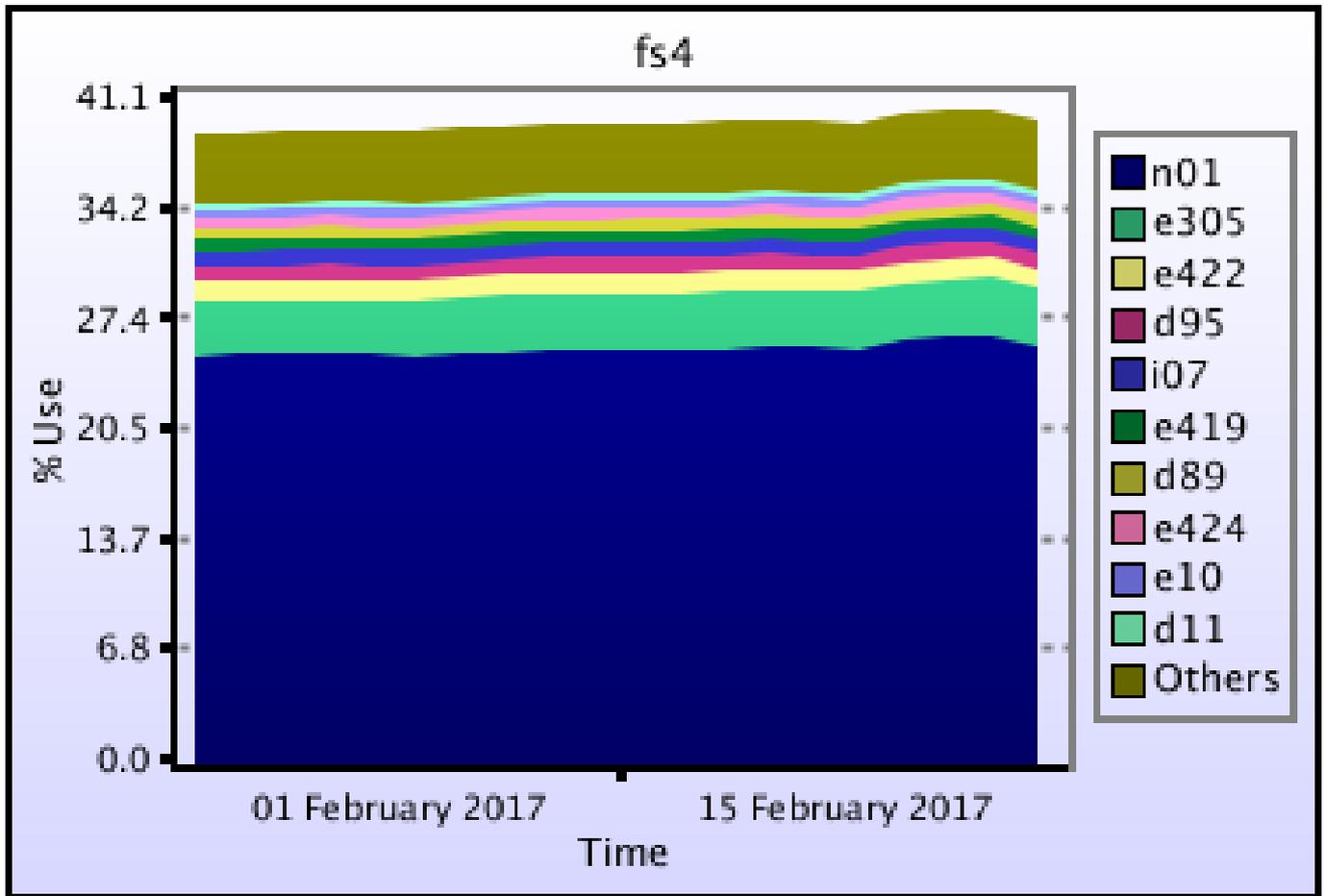
Disk usage for home (home1)

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.
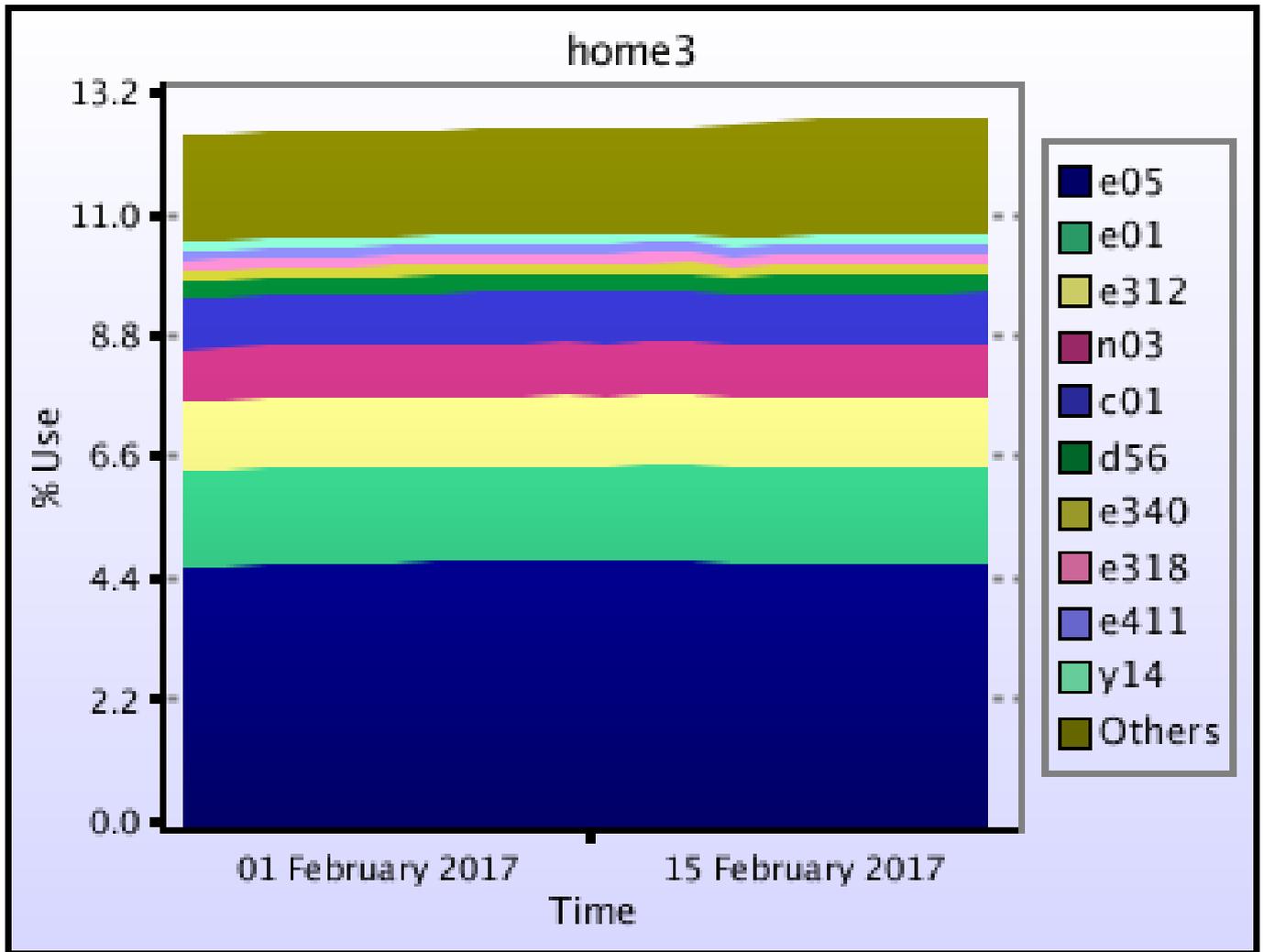
home1

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.

home2

Legend:
- n02
- e283
- y07
- e280
- d77
- e357
- d35
- e311
- e451
- e281
- Others

Y-axis: % Use (0.0, 1.3, 2.6, 3.9, 5.2, 6.5, 7.8)

X-axis: Time (01 February 2017, 15 February 2017)

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.

home3

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.

home4