Monthly Reporting

Report from 01 September 2023 to 30 September 2023

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	Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e572	Leadership Awards	696	4,988.3		•			
e645	Leadership Awards	29	3,872.7	0.09%				
e684	Leadership Awards	0	0.0		0.0			
e760	Leadership Awards	42	640.6		650.6			
e786	Leadership Awards	10	315.9		315.9			
e787	Leadership Awards	13	255.6		255.6			
e683	Pioneer Projects	540	1,450.9		1,450.9			
e685	Pioneer Projects	72	1,871.1	0.04%				
e686	Pioneer Projects	514	2,402.1	0.06%	10,303.0	0.24%	7,339.4	
e687	Pioneer Projects	337	65,653.2		•			
e688	Pioneer Projects	91	17,407.1	0.41%				
e689	Pioneer Projects	3	13,839.2		13,839.2			
e690	Pioneer Projects	66	34,220.4		•		8,859.6	
e691	Pioneer Projects	45	28,868.6	0.69%	28,869.1			
e692	Pioneer Projects	24	17,505.1	0.42%	19,039.0			
e731	Pioneer Projects	0	0.0		0.0			
e744	Pioneer Projects	151	4,299.8					
e808	Pioneer Projects	265	8,936.9		10,820.8			
e809	Pioneer Projects	15	9.6	0.00%	9.6			
e810	Pioneer Projects	48	2,525.7	0.06%	3,379.9	0.08%		
e812	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	13,405.3	0.32%

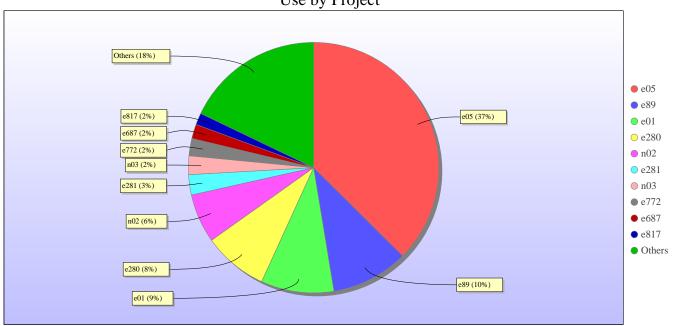
Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e813	Pioneer Projects	531	3,282.9	0.08%	32,182.4	0.76%	22,610.6	0.54%
e814	Pioneer Projects	0	0.0	0.00%	0.0	0.00%	7,690.7	0.18%
e815	Pioneer Projects	463	13,940.7		24,039.9	0.57%	20,303.4	0.48%
e817	Pioneer Projects	57	52,347.1	1.24%	55,395.0	1.32%	74,624.4	1.77%
c01	Class1a	1,266	26,019.6		33,309.6			
e348	Class1a	3,220	11,831.8		11,843.1		19,629.3	
e575	Class1a	0	0.0		0.0		2,243.4	
e607	Class1a	229	5,116.6		39,191.7		8,242.8	
e609	Class1a	995	3,870.0		11,021.0			
e643	Class1a	43	1,917.5		6,930.2			
e647 e649	Class1a	316	1,355.1		1,451.8		14,309.1 813.6	0.34% 0.02%
e649 e694	Class1a Class1a	20	6,831.5 0.0		6,832.6 0.0		2,741.3	
e694 e696		0	0.0		0.0			0.01%
e697	Class1a Class1a	14	848.8		2,268.4		10,612.4	0.01%
e700		0	0.0		0.0		866.5	
e701	Class1a	0	0.0		0.0		2,689.6	
e705	Class1a	26	271.1	0.01%	271.1		3,635.8	
e707	Class1a	38	29,847.7	0.71%	31,664.3		9,247.7	0.22%
e708		0	0.0		0.0		1,682.6	
e710		95	107.9		107.9			0.04%
e712	Class1a	0	0.0		0.0			
e720		135	5,723.8		5,915.1			
e721	Class1a	0	0.0	0.00%	0.0			
e728	Class1a	36	365.8	0.01%	365.8	0.01%	1,991.3	0.05%
e751	Class1a	222	5,335.7	0.13%	5,336.2	0.13%	4,886.9	0.12%
e752	Class1a	0	0.0	0.00%	0.0	0.00%	2,943.4	
e758	Class1a	84	7,914.2		7,914.2		3,236.8	
e763	Class1a	0	0.0		0.0			
e764	Class1a	4	0.4		0.4		7,244.9	
e769		323	7,130.3		8,451.4		28,031.9	
e770		11	11.8		11.8		6,381.6	
e793	Class1a	0	0.0		0.0		30,607.0	
e820		43	1.0		1.0		5,018.0	
e821	Class1a	0	0.0		0.0		245.8	
e6337	Class1a	7	3,363.5		3,363.5		1,349.0	
ec110		0	0.0		0.0			
e01 e05	Consortia	2,213 39,368	231,184.2 594,646.7		343,935.8 1,368,215.7			
e89	Consortia Consortia	72,864	304,624.5		364,314.4			
e280		5,345	94,837.6		305,105.3			
e281	Consortia	2,374	86,503.8		95,508.3		107,116.3	
e283		3,671	48,152.5		48,824.9			
e772		3,249	81,616.2		81,855.5			
e773		201	7,160.1		7,160.1			
e718		0	0.0		0.0			0.00%
e788		0	0.0		0.0			0.01%
e790		0	0.0		0.0			
e791		0	0.0		0.0			
e792		33	284.7		284.7	0.01%	526.2	
e794	Pump Priming	0	0.0	0.00%	0.0		655.6	0.02%
e805		0	0.0	0.00%	0.0	0.00%	606.5	
e811	, ,	14	1,315.6		1,315.6			
e818		68	3,743.7		3,762.2			
e819		0	0.0		0.0			
e823		20	87.9		87.9			
e824		54	119.0		119.0			
e837	, ,	0	0.0		0.0			
ta120	Training	0	0.0	0.00%	0.0	0.00%	245.9	0.01%

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
e507	Access to HPC	6	264.4	0.01%	264.4	0.01%	5,216.4	0.12%
	Access to HPC	0	0.0		0.0	0.00%	3,657.9	0.09%
	Access to HPC	0	0.0		0.0		3,016.6	0.07%
	Access to HPC	187	1,042.0		1,042.0	0.02%	3,857.4	0.09%
	Access to HPC	75	421.1	0.01%	421.1	0.01%	11,839.9	0.28%
	Access to HPC	89	3,317.8		3,317.8	0.08%	1,695.1	0.04%
	Access to HPC	650	4,677.8		4,678.1	0.11%	11,212.8	0.27%
	Access to HPC	4	0.0	0.00%	29.5	0.00%	0.2	0.00%
	Access to HPC	260	532.0	0.01%	532.1	0.01%	21,032.1	0.50%
	Access to HPC	33	11,296.4	0.27%	11,296.4	0.27%	7,198.4	0.17%
	Access to HPC	192	140.9	0.00%	140.9		10,171.6	0.24%
e775	Access to HPC	112	1,869.0	0.04%	1,869.0	0.04%	16,300.7	0.39%
e776	Access to HPC	56	3,707.6		3,707.6		5,797.7	0.14%
	Access to HPC	7	306.7	0.01%	405.6	0.01%	4,029.9	0.10%
e779	Access to HPC	165	2,361.9		2,364.2	0.06%	864.7	0.02%
e780	Access to HPC	10	1,068.8		1,068.8		5,748.3	0.14%
e781	Access to HPC	237	384.3	0.01%	529.8	0.01%	3,260.1	0.08%
	Access to HPC	0	0.0		0.0	0.00%	769.8	0.02%
e783	Access to HPC	124	2,667.0	0.06%	2,667.0	0.06%	10,810.7	0.26%
e789	Access to HPC	30	1,407.4		1,407.4	0.03%	11,032.3	0.26%
	Access to HPC	23	337.5		339.9	0.01%	1,338.8	0.03%
e796	Access to HPC	3	190.3		190.3		6,520.3	0.15%
e797	Access to HPC	65	766.9		766.9	0.02%	4,956.5	0.12%
e798	Access to HPC	0	0.0	0.00%	0.0	0.00%	4,890.2	0.12%
e799	Access to HPC	2	38.5	0.00%	38.5	0.00%	815.0	0.02%
e800	Access to HPC	12	2,263.2	0.05%	2,263.2	0.05%	4,890.2	0.12%
e801	Access to HPC	105	670.5	0.02%	671.7	0.02%	13,578.4	0.32%
e802	Access to HPC	0	0.0	0.00%	0.0	0.00%	3,996.3	0.09%
e803	Access to HPC	0	0.0	0.00%	0.0	0.00%	2,190.8	0.05%
e804	Access to HPC	187	4,828.1	0.11%	4,828.1	0.11%	10,758.4	0.26%
	Access to HPC	64	4,938.8	0.12%	4,938.8	0.12%	4,347.2	0.10%
e822	Access to HPC	20	1.3	0.00%	1.3	0.00%	16,981.9	0.40%
EPSRC Total		143,331	1,900,273.8	45.13%	3,181,450.5	75.56%	3,050,245.5	72.44%
n01	Consortia	2,616	37,789.8	0.90%	38,914.8	0.92%	103,934.4	2.47%
n02	Consortia	41,495	229,563.2	5.45%	231,391.5	5.50%	816,147.5	19.38%
n03	Consortia	1,546	86,839.6	2.06%	88,143.9	2.09%	162,295.1	3.85%
ta123	Training	0	0.0	0.00%	0.0	0.00%	0.7	0.00%
NERC Total		45,657	354,192.7	8.41%	358,450.3	8.51%	1,082,377.8	25.71%
b19	Class1a	130	2,763.7	0.07%	2,788.6	0.07%	3,016.1	0.07%
BBSRC Total		130	2,763.7	0.07%	2,788.6	0.07%	3,016.1	0.07%
e756	Leadership	108	340.6	0.01%	340.6	0.01%	8,785.1	0.21%
e760		31	521.0	0.01%	527.8	0.01%	182.8	0.00%
	Awards							
e723			9,553.5		29,900.4		37,305.7	0.89%
e738	Class1a	12	25.6		25.6		16,300.7	
UKRI Total		2,954	10,440.6		30,794.4	0.73%	62,574.3	1.49%
ecseab03		0	0.0		0.0		46.6	
ecseac14		0	0.0		0.0		63.2	0.00%
ecsead08		5	0.0		1,282.4	0.03%	83.0	0.00%
ecseae08		0	0.0		0.0		61.3	0.00%
ecseaf01		0	0.0		0.0		80.4	0.00%
ecseaf02		0	0.0		0.0		51.0	0.00%
ecseaf03		12	2.0		2.0		31.5	0.00%
ecseaf04		0	0.0		0.0		63.0	0.00%
ecseaf06		0	0.0		0.0		57.0	0.00%
ecseag02		34	126.7	0.00%	126.7	0.00%	59.1	0.00%
ecseag03		0	0.0		0.0		60.9	0.00%
ecseag06		5	0.1	0.00%	0.1	0.00%	41.7	0.00%
ecseag08		0	0.0		0.0		56.5	0.00%
ecseag09		11	3.3		15.1	0.00%	60.7	0.00%
ecseah03		0	0.0		0.0		116.6	
ecseah05	eCSE	0	0.0	0.00%	0.0	0.00%	52.6	0.00%

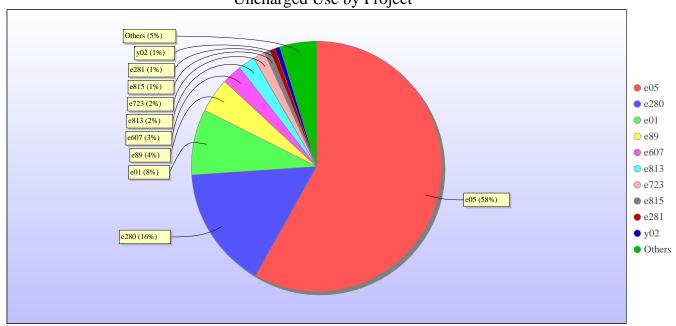
ecseah10	Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ecseah11	ecseah06	eCSE	0	0.0	0.00%	0.0	0.00%	106.1	0.00%
ecseah12 eCSE 5	ecseah10	eCSE	0	0.0	0.00%	0.0	0.00%	104.1	0.00%
ecseal04 eCSE 0 0.0 0.00% 0.0 0.00% 100.6 ecseal04 eCSE 0 0.0 0.00% 0.0 0.00% 120.6 ecseal08 eCSE 0 0.0 0.00% 0.0 0.00% 120.6 ecseal09 eCSE 0 0.0 0.00% 0.0 0.00% 120.6 ecseal10 eCSE 0 0.0 0.00% 0.0 0.00% 101.7 ecseal10 eCSE 0 0.0 0.00% 0.0 0.00% 101.7 ecseal10 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseal02 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseal03 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseal03 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseal03 eCSE 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 1.05.3 ecseal03 eCSE 0 0.0 0.00% 1.446.6 0.03% 2.068.2 eCSE 0.0 0.00% 1.446.6 0.03% 2.068.2 eCSE 0.00 0.00% 0.00	ecseah11	eCSE	0	0.0	0.00%	0.0	0.00%	70.8	0.00%
ecseal04 eCSE 0	ecseah12	eCSE	5	20.4	0.00%	20.4	0.00%	92.8	0.00%
ecseal09 eCSE 0 0.0 0.00% 0.0 0.00% 120.6 ecseal10 eCSE 0 0.0 0.00% 0.0 0.00% 101.7 ecseal10 eCSE 0 0.0 0.00% 0.0 0.00% 92.8 ecseal22 eCSE 0 0.0 0.00% 0.0 0.00% 57.4 ecseal02 eCSE 0 0.0 0.00% 0.0 0.00% 57.4 ecseal03 eCSE 0 0.0 0.00% 0.0 0.00% 105.3 2.068.2 eCSE 0 0.0 0.00% 1.446.6 0.03% 2.068.2 eCSE 0.00% 1.446.6 0.00% 1.00 0.00% 0.00% 0.00% 0	ecseai03	eCSE	0	0.0	0.00%	0.0	0.00%	73.8	0.00%
ecseai09 eCSE 0 0.0 0.00% 0.0 0.00% 92.8 ecseai12 eCSE 0 0.0 0.00% 0.0 0.00% 92.8 ecseai12 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseai03 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseai03 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecseai03 eCSE 0 0.0 0.00% 0.0 0.00% 105.3 eCSE Total 72 152.5 0.00% 1,446.6 0.03% 2,068.2 eCSE Total 73 152.5 0.00% 1,446.6 0.03% 2,068.2 eCSE Total 74 10.00% 1,446.6 0.03% 2,068.2 eCSE Total 75 10.00% 1,445.0 0.00% 110.0 d011 Research 34 0.9 0.00% 0.9 0.00% 170.0 d114 Research 34 12,395.1 0.29% 18,544.8 0.44% 1.631.7 d142 Research 345 12,395.1 0.29% 18,544.8 0.44% 1.631.7 d145 Research 13 302.7 0.01% 302.7 0.01% 4.054.1 d193 Research 0 0.0 0.00% 0.0 0.00% 1.639.0 d183 Research 0 0.0 0.00% 0.0 0.00% 172.1 d193 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 82.0 i246 Research 57 0.0 0.00% 0.0 0.00% 82.1 i38 industrial 0 0.0 0.00% 0.0 0.00% 82.1 i43 industrial 0 0.0 0.00% 0.0 0.00% 82.1 i44 industrial 0 0.0 0.00% 0.0 0.00% 82.1 i21 industrial 0 0.0 0.00% 0.0 0.00% 82.1 i241 industrial 0 0.0 0.00% 0.0 0.00% 66.5 i241 industrial 0 0.0 0.00% 0.0 0.00% 544.8 i239 industrial 588 1,337.8 0.03% 2,199.0 0.05% 1.659.5 i241 industrial 0 0.0 0.00% 0.0 0.00% 544.8 i239 industrial 0 0.0 0.00% 0.0 0.00% 544.8 i241 industrial 0 0.0 0.00%	ecseai04	eCSE	0	0.0	0.00%	0.0	0.00%	100.6	0.00%
ecsseal10	ecseai05	eCSE	0	0.0	0.00%	0.0	0.00%	120.6	0.00%
ecsea 2 eCSE 0 0.0 0.00% 0.0 0.00% 57.0 ecsea 02 eCSE 0 0.0 0.00% 0.0 0.00% 57.4 ecsea 03 eCSE 0 0.0 0.00% 0.0 0.00% 105.3 ecsea 03 eCSE 0 0.0 0.00% 0.0 0.00% 105.3 ecsea 05 Research 48 3.1 0.00% 4.7 0.00% 411.0 d011 Research 34 0.9 0.00% 0.9 0.00% 170.0 d114 Research 0 0.0 0.00% 0.9 0.00% 170.0 d137 Research 345 12,395.1 0.29% 18,544.8 0.44% 1,631.7 d142 Research 13 302.7 0.01% 302.7 0.01% 4.054.1 d175 Research 0 0.0 0.00% 0.0 0.00% 1,639.0 d183 Research 0 0.0 0.00% 0.0 0.00% 1,639.0 d435 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 i246 Research 57 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i18 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i21 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 i221 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 i244 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 i245 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 358 2.29.6 0.01% 22.7 0.00% 34.8 i242 Industrial 358 2.29.6 0.01% 22.7 0.00% 366.5 i244 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 368.3 i244 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 368.3 i245 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 366.5 i247 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 368.3 i248 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 368.3 i249 Industrial 358 2.29.6 0.00% 3.347.1 0.08% 966.6 i247 Industrial 358 2.29.6 0.01% 2.29.7 0.00% 368.3 i248 Industrial 358 2.29.6 0.00% 0.00% 0.00% 3.70.5 i248 Industrial	ecseai09			0.0	0.00%	0.0	0.00%	101.7	0.00%
ecsea 02 eCSE	ecseai10			0.0	0.00%	0.0	0.00%	92.8	0.00%
eCSE Total 72	ecseai12	eCSE	0	0.0	0.00%	0.0	0.00%	57.0	0.00%
CSE Total	ecseaj02	eCSE	0	0.0	0.00%	0.0	0.00%	57.4	0.00%
d35 Research 48 3.1 0.00% 4.7 0.00% 411.0 d011 Research 34 0.9 0.00% 0.9 0.00% 170.0 d114 Research 0.0 0.0 0.00% 0.0 0.00% 5,057.7 d137 Research 345 12,395.1 0.29% 18,544.8 0.44% 1,631.7 d142 Research 13 302.7 0.01% 302.7 0.01% 4,054.1 d175 Research 0.0 0.0 0.00% 0.0 0.00% 1,639.0 d183 Research 0.0 0.0 0.00% 0.0 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 57 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.5 0.00% 1.69.9 i221 Industrial 46 0.3 0.00% 0.5 0.00% 32.8 i239 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i242 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i244 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i244 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i247 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i248 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i247 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i248 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i249 Industrial 358 22.96 0.01% 22.97 0.01% 666.5 i241 Industrial 358 22.96 0.01% 3.79.7 m2201 Training 0 0.0 0.00% 0.0 0.00% 73.9.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 73.9.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 73.9.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 14.3.9 m23ext Training 0 0.0 0.00% 0.0 0.	ecseaj03	eCSE	0	0.0	0.00%	0.0	0.00%	105.3	0.00%
d011 Research 34 0.9 0.00% 0.9 0.00% 170.0 d114 Research 0 0.0 0.00% 0.0 0.00% 5.057.7 d137 Research 345 12,395.1 0.29% 18,544.8 0.44% 1,631.7 d142 Research 13 302.7 0.01% 302.7 0.01% 4,054.1 d175 Research 0 0.0 0.00% 0.0 0.00% 1,639.0 d183 Research 0 0.0 0.00% 0.0 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d335 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 61.2 0.00% 62.0 0.00% 328.8 1246 Research 57 0.0 0.00% 61.2 0.01% 0.1 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0 0.00% 0.0	eCSE Total		72	152.5	0.00%	1,446.6	0.03%	2,068.2	0.05%
d114 Research 0 0.0 0.00% 5.057.7 d137 Research 345 12,395.1 0.29% 18,544.8 0.44% 1,631.7 d142 Research 13 302.7 0.01% 302.7 0.01% 4,054.1 d175 Research 0 0.0 0.00% 0.0 0.00% 1,639.0 d183 Research 0 0.0 0.00% 0.0 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 57 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 62.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i21 Industrial 0 0.0 0.00% 0.0 0.00% 8.2 i219 Industrial 0 0.0 0.00% 0.0 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 i244 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.5 i248 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 i220c Training 0 0.0 0.00% 0.0 0.00% 379.7 m230c Training	d35	Research	48	3.1	0.00%	4.7	0.00%	411.0	0.01%
d137 Research 345 12,395.1 0.29% 18,544.8 0.44% 1,631.7 d142 Research 13 302.7 0.011% 302.7 0.010% 4,054.1 d175 Research 0 0.0 0.00% 0.0 0.00% 1,633.0 d183 Research 0 0.0 0.00% 0.0 0.00% 1633.0 d183 Research 12 1.8 0.00% 1.8 0.00% 219.0 d193 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 0 0.0 0.00% 61.2 1.0 1.0 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 682.0 i18 Industrial 0 0.0 0.00% 0.0 0.00% 682.0 i18 Industrial 0 0.0 0.00% 0.0 0.00% 682.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 1,469.9 i21 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 0 0.0 0.00% 0.0 0.00% 548.8 i244 Industrial 0 0.0 0.00% 0.0 0.00% 548.8 i243 Industrial 0 0.0 0.00% 0.0 0.00% 548.8 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22or Training 0 0.0 0.00% 0.0 0.00% 379.7 m23or Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23or Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m22exts Training 0 0.0 0.00% 0.0 0.00% 379.7 m23exts Training 0 0.0 0.00% 0.0 0.00% 363.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 370.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 370.0 ta086 Training	d011	Research	34	0.9	0.00%	0.9	0.00%	170.0	0.00%
d142 Research 13 302.7 0.01% 302.7 0.01% 4,054.1 d175 Research 0 0.0 0.00% 0.0 0.00% 1,639.0 d183 Research 0 0.0 0.00% 0.0 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 82.1 i219 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 i219 Industrial 58 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 58 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 35 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 35 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Train	d114	Research	0	0.0	0.00%	0.0	0.00%	5,057.7	0.12%
d175 Research 0 0.0 0.00% 0.0 0.00% 1,633.0 d183 Research 0 0.0 0.00% 0.00% 1.8 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 d11 Industrial 0 0.0 0.00% 0.0 0.00% 61.1 d18 Industrial 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 61.1 d18 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 d19 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 d19 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 d19 Industrial 0 0.0 0.00% 0.0 0.00% 0.5 d1,389.3 d1241 Industrial 0 0.0 0.00% 0.0 0.00% 0.5 d1,389.3 d1241 Industrial 0 0.0 0.00% 0.0 0.00% 0.5 d1,389.3 d1243 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 d1243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 d1244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 d1244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 d1244 Industrial 358 229.6 0.01% 0.00% 0.0 0.00% 379.7 m230c Training 0 0.0 0.00% 0.0 0.00% 379.7 m230c Training 0 0.0 0.00% 0.0 0.00% 379.7 m230c Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.2 tab85 Training 0 0.0 0.00% 0.0 0.00% 37	d137	Research	345	12,395.1	0.29%	18,544.8	0.44%	1,631.7	0.04%
d183 Research 12 1.8 0.00% 1.8 0.00% 172.1 d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3.120.4 0.07% 3.120.5 0.07% 1.643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 681.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 681.1 i18 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 0 0.0 0.00% 0.0 0.00% 1,459.9 i241 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 27 18.7 0.00% 0.0 0.00% 548.8 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ot Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 0.0 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 379.2 tab85 Training 0 0.0 0.00% 0.0 0.00% 379.2 tab86 Training 0 0.0 0.00% 0.0 0.00% 379.7 tab96 Training 0 0.0 0.00% 0.0 0.00% 379.7 tab96 Tr	d142	Research	13	302.7	0.01%	302.7	0.01%	4,054.1	0.10%
d193 Research 12 1.8 0.00% 1.8 0.00% 219.0 d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i011 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.00% 0.5 0.00% 32.8 i239 Industrial 588 1,337.8 0.00% 0.0 0.00% 1,537.2 i241 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22cc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 0.0 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m32ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m22ext Training 0 0.0 0.00% 0.0 0.00% 61.7 tab96 Training 97 80.0 0.00% 519.8 0.01% 544.8 tab96 Training 0 0.0 0.00% 0.0 0.00% 61.7 tab96 Training 0 0.0 0.00% 0.0 0.00% 61.7 tab96 Training 0 0.0 0.00% 0.0 0.00% 61.7 tab96 Training	d175	Research	0	0.0	0.00%	0.0	0.00%	1,639.0	0.04%
d435 Research 493 3,120.4 0.07% 3,120.5 0.07% 1,643.8 d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 i21 Industrial 0 0.0 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 543.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 683.2 m23exts Training 0 0.0 0.00% 0.0 0.00% 683.2 m23exts Training 0 0.0 0.00% 0.0 0.00% 68.3 m23exts Training 0 0.0 0.00% 0.0 0.00% 68.3 m23exts Training 0 0.0 0.00% 0.0 0.00% 68.3 m23exts Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts Training 0 0.0 0.00% 0.0 0.00% 739.2 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta096 Training 0 0.0 0.00% 519.8 0.01% 2,469.3 ta096 Training 0 0.0 0.00% 519.8 0.01% 2,469.3 ta096 Training 0 0.0 0.00% 519.8 0.01% 2,469.3 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7	d183	Research	0	0.0	0.00%	0.0	0.00%	172.1	0.00%
d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.01% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 1.469.9 i21 Industrial 0 0.0 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 27 18.7 0.00% 0.0 0.00% 1.537.2 i242 Industrial 27 18.7 0.00% 0.0 0.00% 548.8 i243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m23ext Training 0 0.0 0.00% 0.0 0	d193	Research	12	1.8	0.00%	1.8	0.00%	219.0	0.01%
d436 Research 0 0.0 0.00% 0.0 0.00% 328.8 i246 Research 57 0.0 0.00% 612.1 0.11% 0.1 d433 Industrial 0 0.0 0.00% 0.0 0.00% 82.0 i01 Industrial 0 0.0 0.00% 0.0 0.00% 691.1 i18 Industrial 0 0.0 0.00% 0.0 0.00% 1.469.9 i21 Industrial 0 0.0 0.00% 0.5 0.00% 8.2 i219 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,339.3 i241 Industrial 27 18.7 0.00% 0.0 0.00% 1,537.2 i242 Industrial 27 18.7 0.00% 0.0 0.00% 548.8 i243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 683.3 m23ext Training 0 0.0 0.00% 0.0 0.00% 683.3 m22ext Training 0 0.0 0.00% 0.0 0.00% 683.3 m23ext Training 0 0.0 0.00% 0.0 0.00% 18.5 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta098 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta098 Training 0 0.0 0.00%	d435	Research	493	3,120.4	0.07%	3,120.5	0.07%	1,643.8	0.04%
Material Material	d436	Research	0	0.0	0.00%			328.8	0.01%
Industrial O O.O O.O% O.O O.O% G91.1 Ital	i246	Research	57	0.0	0.00%	612.1	0.01%	0.1	0.00%
i18	d433	Industrial	0	0.0	0.00%	0.0	0.00%	82.0	0.00%
121 Industrial 46 0.3 0.00% 0.5 0.00% 8.2 1219 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 1239 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 1241 Industrial 0 0.0 0.00% 0.0 0.00% 1,537.2 1242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 1243 Industrial 0 0.0 0.00% 0.0 0.00% 650.5 1244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 1247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 379.7 m23exts Training 0 0.0 0.00% 0.0 0.00% 379.2 ta084 Training 0 0.0 0.00% 0.0 0.00% 379.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 379.2 ta086 Training 0 0.0 0.00% 0.0 0.00% 379.7 ta084 Training 0 0.0 0.00% 0.0 0.00% 379.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 379.7 ta086 Training 0 0.0 0.00% 0.0 0.00% 379.7 ta089 Training 0 0.0 0.00% 0.	i01	Industrial	0	0.0	0.00%	0.0	0.00%	691.1	0.02%
i219 Industrial 0 0.0 0.00% 0.0 0.00% 32.8 i239 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 i241 Industrial 0 0.0 0.00% 0.0 0.00% 1,537.2 i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m220c Training 0 0.0 0.00% 0.0 0.00% 379.7 m230c Training 0 0.0 0.00% 0.0 0.00% 379.7 m230c Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 68.3 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 0.0 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0	i18	Industrial	0	0.0	0.00%	0.0	0.00%	1,469.9	0.03%
1239 Industrial 588 1,337.8 0.03% 2,199.0 0.05% 1,389.3 1241 Industrial 0 0.0 0.00% 0.0 0.00% 1,537.2 1242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 1243 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 1244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 1247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta097 Training 97 80.0 0.00% 51.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta097 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta098 T	i21	Industrial	46	0.3	0.00%	0.5	0.00%	8.2	0.00%
i241 Industrial 0 0.0 0.00% 0.0 0.00% 1,537.2 i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 0 0.0 0.00% 0.0 0.00% 650.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 344.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m3sext Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts Training 0 0.0 0.00% 0.0 0.00% 379.7 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts Training 0 0.0 0.00% 0.0 0.00% 68.3 m23exts Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 519.8 0.01% 2,469.3 ta094 Training 0 0.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 0.0 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 0.0 0.00% 61.7	i219	Industrial	0	0.0	0.00%	0.0	0.00%	32.8	0.00%
i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 0 0.0 0.00% 0.0 0.00% 650.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22cc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23cl Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7	i239	Industrial	588	1,337.8	0.03%	2,199.0	0.05%	1,389.3	0.03%
i242 Industrial 27 18.7 0.00% 18.7 0.00% 548.8 i243 Industrial 0 0.0 0.00% 0.0 0.00% 650.5 i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 68.3 m22extst	i241	Industrial	0	0.0	0.00%	0.0	0.00%	1,537.2	0.04%
i244 Industrial 358 229.6 0.01% 229.7 0.01% 666.5 i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 363.2 m2sext Training 0 0.0 0.00% 0.0 0.00% 151.9 m2sext Training 0 0.0 0.00% 0.0 0.00% 68.3 m2sexts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m2sexts1	i242			18.7	0.00%	18.7	0.00%	548.8	0.01%
i247 Industrial 35 3,283.6 0.08% 3,347.1 0.08% 966.6 m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Tr	i243	Industrial	0	0.0	0.00%	0.0	0.00%	650.5	0.02%
m22oc Training 0 0.0 0.00% 0.0 0.00% 379.7 m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training	i244	Industrial	358	229.6	0.01%	229.7	0.01%	666.5	0.02%
m22ol Training 0 0.0 0.00% 0.0 0.00% 379.7 m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 68.3 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 143.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training <td>i247</td> <td>Industrial</td> <td>35</td> <td>3,283.6</td> <td>0.08%</td> <td>3,347.1</td> <td>0.08%</td> <td>966.6</td> <td>0.02%</td>	i247	Industrial	35	3,283.6	0.08%	3,347.1	0.08%	966.6	0.02%
m23oc Training 0 0.0 0.00% 0.0 0.00% 544.8 m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training	m22oc	Training	0	0.0	0.00%	0.0	0.00%	379.7	0.01%
m23ol Training 0 0.0 0.00% 0.0 0.00% 363.2 m22ext Training 0 0.0 0.00% 0.0 0.00% 151.9 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training	m22ol			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 m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 519.8 0.01% 2,469.3 ta095 Training <td>m23oc</td> <td>Training</td> <td>0</td> <td>0.0</td> <td>0.00%</td> <td>0.0</td> <td>0.00%</td> <td>544.8</td> <td>0.01%</td>	m23oc	Training	0	0.0	0.00%	0.0	0.00%	544.8	0.01%
m23ext Training 0 0.0 0.00% 0.0 0.00% 68.3 mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 519.8 0.01% 2,469.3 ta094 Training 0 0.0 0.00% 519.8 0.01% 2,469.3 ta095 Training	m23ol	Training	0	0.0	0.00%	0.0	0.00%	363.2	0.01%
mdisspt Training 0 0.0 0.00% 0.0 0.00% 143.9 m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Trainin	m22ext	Training	0	0.0	0.00%	0.0	0.00%	151.9	0.00%
m22exts1 Training 0 0.0 0.00% 0.0 0.00% 75.9 m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7	m23ext	Training	0	0.0	0.00%	0.0	0.00%		0.00%
m23exts1 Training 0 0.0 0.00% 0.0 0.00% 61.1 ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7	mdisspt	Training	0	0.0	0.00%	0.0	0.00%	143.9	
ta084 Training 0 0.0 0.00% 0.0 0.00% 739.2 ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7	m22exts1	Training	0	0.0		0.0	0.00%	75.9	0.00%
ta085 Training 0 0.0 0.00% 0.0 0.00% 37.0 ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7									0.00%
ta086 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta087 Training 0 0.0 0.00% 0.0 0.00% 18.5 ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7									
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ta093 Training 46 0.0 0.00% 4,834.6 0.11% 724.6 ta094 Training 97 80.0 0.00% 519.8 0.01% 2,469.3 ta095 Training 0 0.0 0.00% 0.0 0.00% 61.7 ta096 Training 0 0.0 0.00% 0.0 0.00% 61.7		J							
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									0.00%
ta097 Training 0 0.0 0.00% 0.0 0.00% 61.7			0	0.0				61.7	0.00%
	ta097			0.0	0.00%	0.0		61.7	0.00%
ta109 Training 140 671.7 0.02% 671.7 0.02% 539.9									
									0.00%
ta112 Training 0 0.0 0.00% 0.0 0.00% 18.4			0	0.0	0.00%	0.0		18.4	0.00%
ta115 Training 0 0.0 0.00% 0.0 0.00% 167.1				0.0	0.00%	0.0	0.00%		0.00%
ta116 Training 183 698.8 0.02% 705.0 0.02% 892.6	ta116	Training		698.8				892.6	0.02%
ta117 Training 188 430.6 0.01% 288.7 0.01% 315.8									
				0.0	0.00%	0.0	0.00%		
ta119 Training 202 2.7 0.00% 2.7 0.00% 113.9									
ta121 Training 12 0.0 0.00% 0.0 0.00% 147.5									

Project	Project Class	Number of Jobs	Charged CUs	Charged Utilisation	Used CUs	Utilisation	Allocated CUs	Allocation
ta122	Training	462	4.3	0.00%	4.3	0.00%	147.5	0.00%
ta124	Training	0	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta125	Training	6	0.0	0.00%	0.0	0.00%	18.4	0.00%
ta126	Training	2	0.0	0.00%	0.0	0.00%	30.7	0.00%
ta127	Training	6	126.9	0.00%	127.2	0.00%	639.3	0.02%
d191	Service	0	0.0	0.00%	0.0	0.00%	4.1	0.00%
d194	Service	0	0.0	0.00%	0.0	0.00%	140.2	0.00%
y01	Service	0	0.0	0.00%	0.0	0.00%	72.4	0.00%
y02	Service	228	1,445.4	0.03%	10,099.0	0.24%	4,109.6	0.10%
y07	Service	0	0.0	0.00%	0.0	0.00%	27.4	0.00%
y23	Service	0	0.0	0.00%	0.0	0.00%	82.2	0.00%
z01	Service	0	0.0	0.00%	0.0	0.00%	8.0	0.00%
z02	Service	20	0.0	0.00%	0.0	0.00%	8.2	0.00%
z19	Service	6,279	28,013.8	0.67%	28,854.2	0.69%	40,983.6	0.97%
z40	Service	0	0.0	0.00%	0.0	0.00%	163.0	0.00%
z99	Service	0	0.0	0.00%	0.0	0.00%	0.8	0.00%
DirectorsTime		9,943	52,168.3	1.24%	74,489.6	1.77%	78,543.7	1.87%
Total								
e761	Class1a	14	5,376.7	0.13%	5,376.7	0.13%	0.0	0.00%
Total		14	5,376.7	0.13%	5,376.7	0.13%	0.0	0.00%
Total		202,101	2,325,368.3	55.23%	3,654,796.7	86.80%	4,278,825.5	101.62%

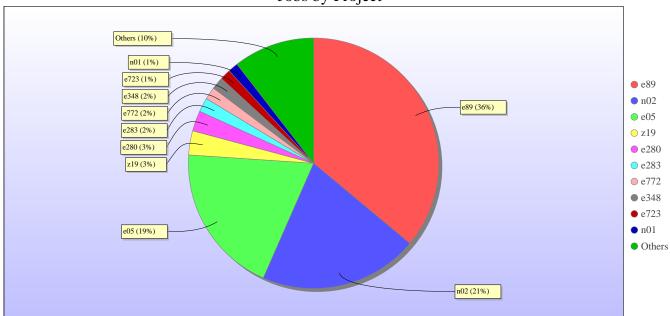




Uncharged Use by Project



Jobs by Project

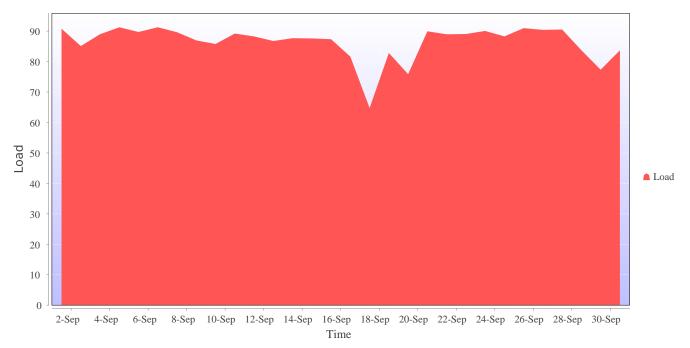


CUs (by Size)

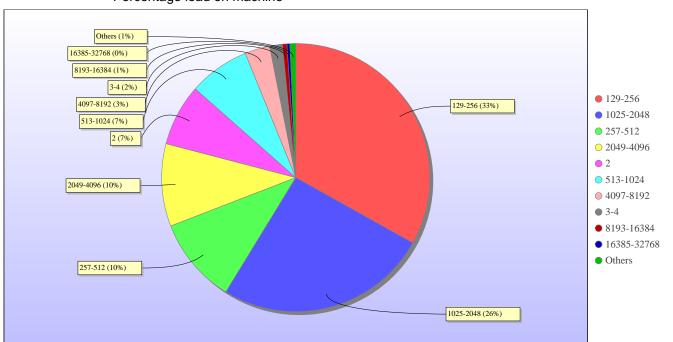
Size	CUs	Number of Jobs
2	0	15,037
3-4	0	3,123
5-8	0	614
9-16	0	67
17-32	0	175
33-64	0	2
65-128	0	6
129-256	158,360.651	66,902
257-512	105,487.682	·
513-1024	296,542.79	
1025-2048	325,057.699	51,803

Size	CUs	Number of Jobs
2049-4096	323,030.505	20,087
4097-8192	441,137.193	6,087
8193-16384	222,778.43	1,095
16385-32768	200,882.601	705
32769-65536	165,278.553	205
65537-131072	39,824.122	114
131073-262144	42,186.622	218
262145-524288	1,148.587	13
524289-1048576	0	1

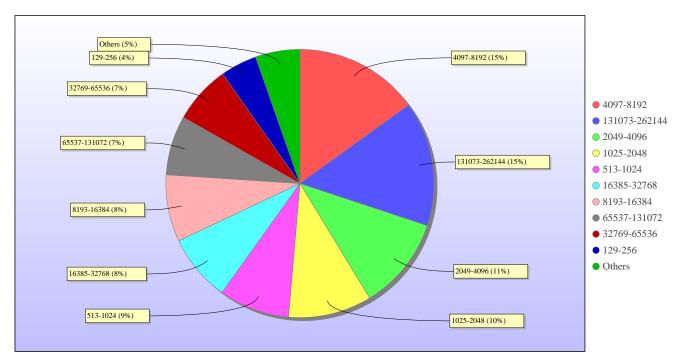
Load plots



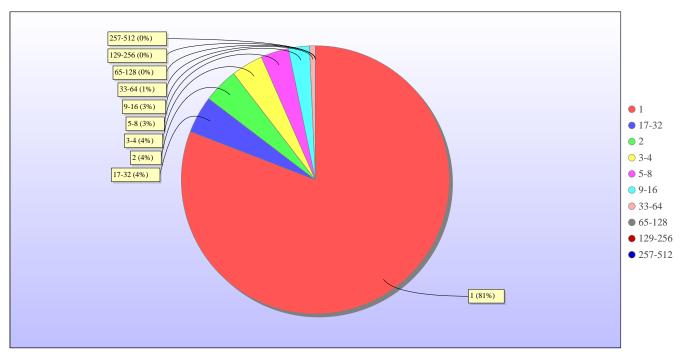
Percentage load on machine



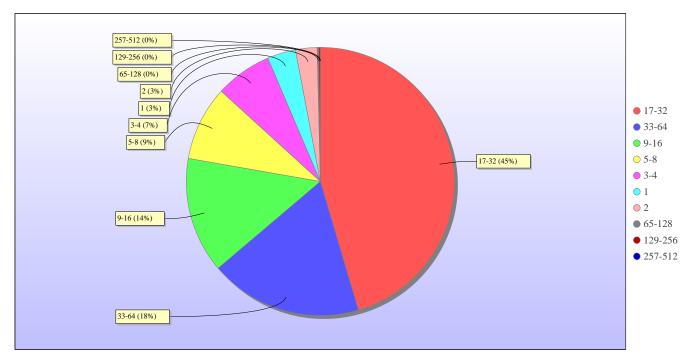
Jobs by Size



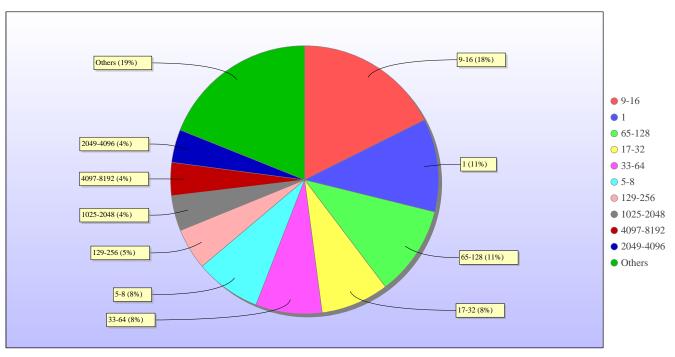
CUs used by Size



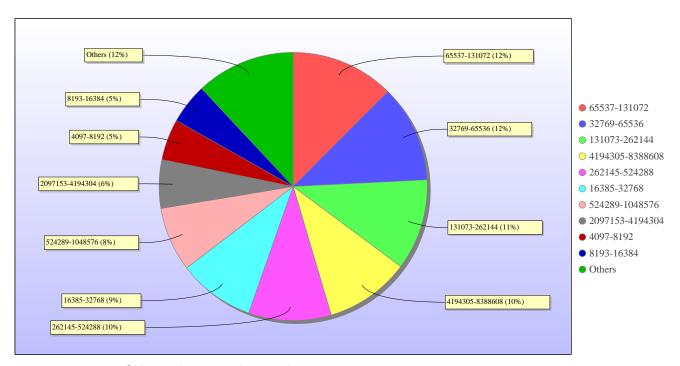
Jobs grouped by wall-clock-hours



CUs used grouped by wall-clock-hours



Jobs grouped by core-hours

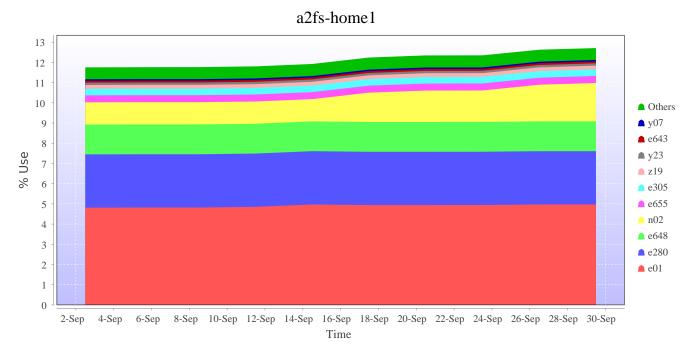


CUs used grouped by core-hours

Disk usage

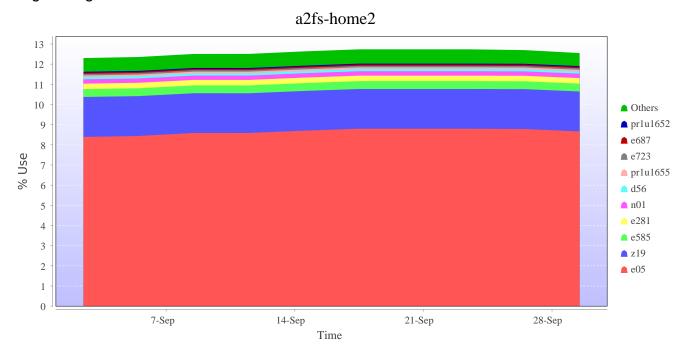
Disk usage for home (a2fs-home1)

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.



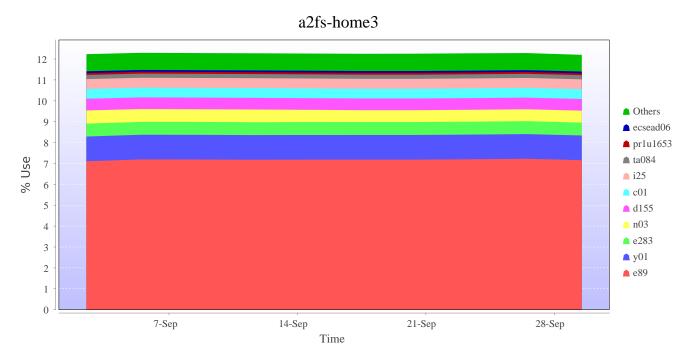
Disk usage for home (a2fs-home2)

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.



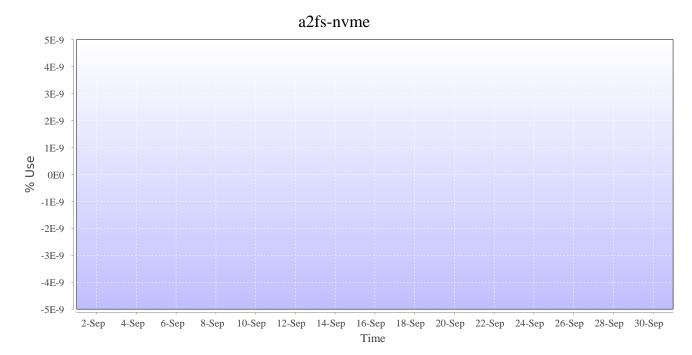
Disk usage for home (a2fs-home3)

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.



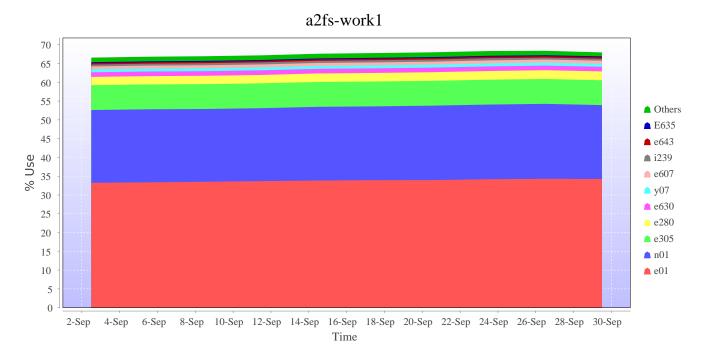
Disk usage for scratch (a2fs-nvme)

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



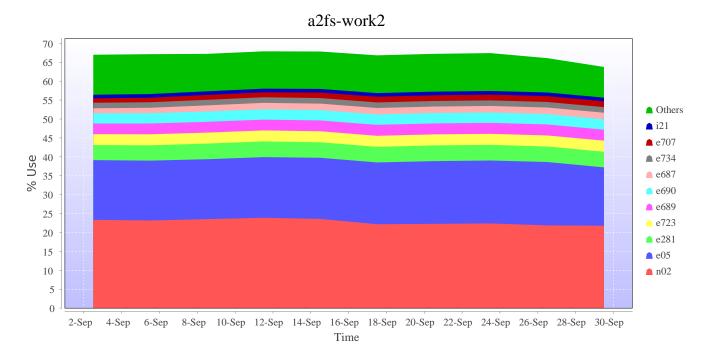
Disk usage for work (a2fs-work1)

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.



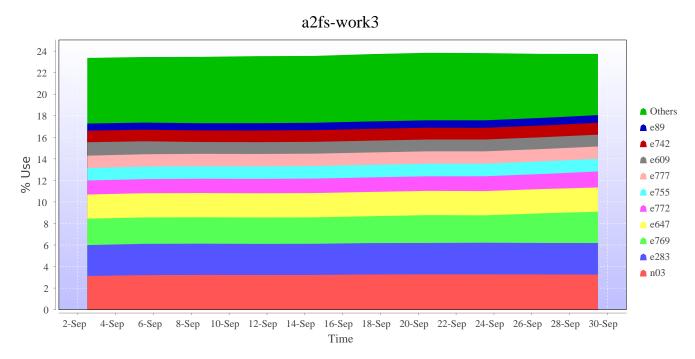
Disk usage for work (a2fs-work2)

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.



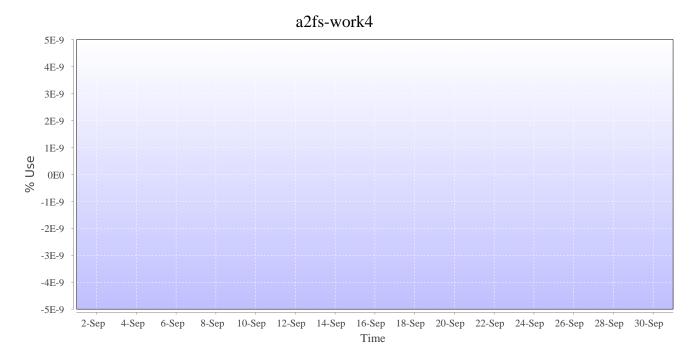
Disk usage for work (a2fs-work3)

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.



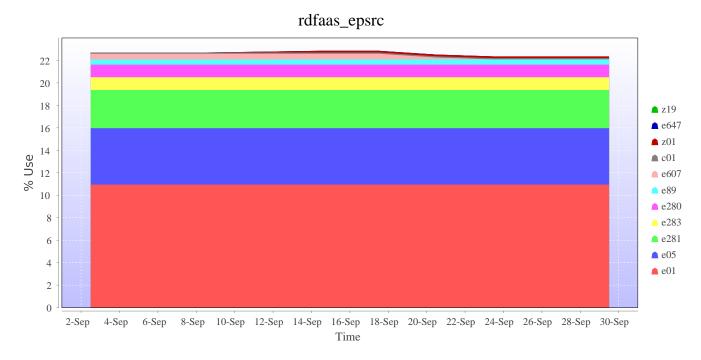
Disk usage for work (a2fs-work4)

This is a plot of Disk Use on a2fs-work4 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.

