

2017

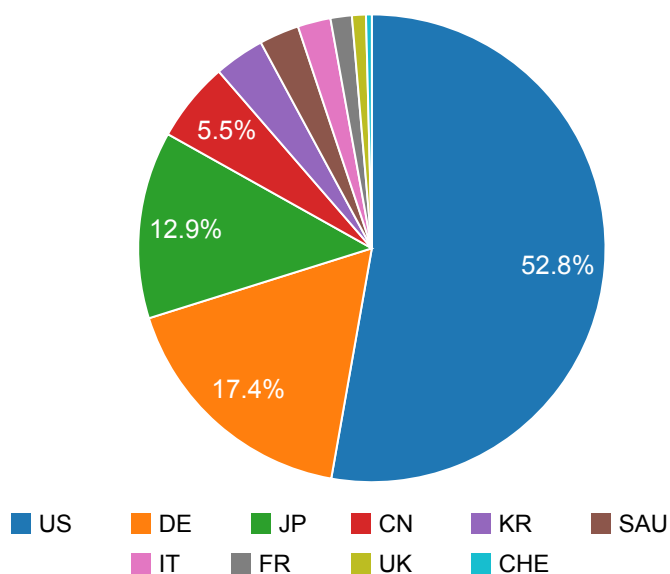
#	Site		Supercomputer			Storage	
	Name	nationality	Name	compute peak	memory capacity	Name	capacity
				in PFLOPs	in TiB		in PiB
1	LANL	US	Trinity	11.08	1.00	Lustre	72.83
2	DKRZ	DE	Mistral	3.12	204.00	HPSS Lustre02 Lustre01	52.00
3	LLNL	US	Sequoia	20.10	1.00	Lustre	48.85
4	RIKEN	JP	K Computer	10.62	1.00	Lustre FEFS	39.77
5	NERSC	US	Cori Phase I	4.90	204.00	Lustre	30.00
6	ORNL	US	Titan	27.10	645.74	Lustre	28.00
7	NCSA	US	Blue Waters	13.40	1,500.00	Lustre HPSS	26.40
8	ANL	US	Mira	10.00	698.49	GPFS	21.32
9	JSC	DE	Juqueen	5.90	407.45	HPSS JUST	20.30
10	JAMSTEC	JP	Earth Simulator	1.31	291.04	Archive Home Data Work	19.62
11	NSCC	CN	Tianhe-1A TaihuLight	129.70	239.29	Lustre Sunway	19.54
12	KMA	KR	Miri	2.90	0.00	Lustre	19.27
13	AFRL	US	Thunder	5.61	406.54	Lustre	15.54
14	KAUST	SAU	Shaheen II	7.20	718.50	HPSS Lustre	15.28
15	LRZ	DE	SuperMUC	3.58	176.44	GPFS	15.00
16	NASA	US	Pleiades	4.97	603.90	Lustre	14.21
17	TACC	US	Stampede	9.60	245.56	Lustre	12.43
18	NUDT	CN	Tianhe-2	54.90	1,375.00	Lustre	11.01
19	ERDC DSRC	US	Topaz	4.57	401.63	Lustre	10.66
20	HLRS	DE	Hazel Hen	7.40	876.75	HPSS Lustre	8.88
21	TEP	FR	Pangea	6.71	49.11	Lustre	8.17
22	GSIC	JP	Tsubame	5.76	67.67	Lustre	6.93
23	ENI	IT	HPC2	4.60	0.00	GPFS	6.66
24	CINECA	IT	Fermi	2.10	0.00	GPFS	5.95
25	NA	JP	PRIMEHPC	3.20	83.67	Lustre	5.33
26	ECMWF	UK	Cray XC40	4.25	0.00	HPSS Lustre	5.33
27	PGS	US	Abel	5.37	531.14	Lustre	5.33
28	ARL	US	Excalibur	3.70	385.63	Lustre	4.09
29	PNL	US	Cascade	3.40	167.35	Lustre	2.40

#	Site		Supercomputer			Storage	
	Name	nationality	Name	compute peak	memory capacity	Name	capacity
				in PFLOPs	in TiB		↑ in PiB
30	CSCS	CHE	Piz Daint	7.79	153.70	Lustre	2.22

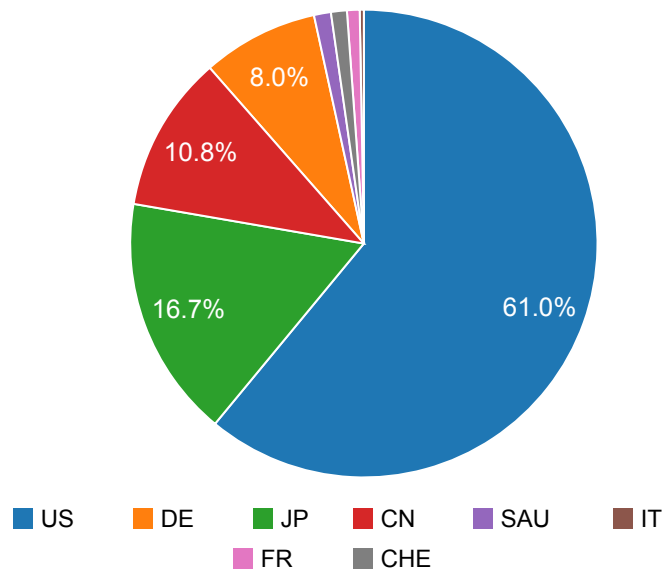
- *storage type*: **all**, local storage, shared storage, tape archive, MAID
- *aggregation*: **no**, **sum**, avg, max – ! removed non-reducible columns
- columns
 - *site*
 - + energy consumption, power usage effectiveness
 - - nationality
 - *supercomputer*
 - + node count, total cores, energy consumption, graph500, graph500 problem scale, top500, green500, memory bandwidth
 - - compute peak, memory capacity
 - *storage*
 - + energy consumption, drives, cache size, slots, peak, metadata rate, sustained write, sustained read, servers, hdds, ssds
 - - capacity

Data graph

storage capacity -- grouped by site nationality



supercomputer node_count -- grouped by site nationality



Data table to the graph

site nationality	supercomputer node_count	storage capacity	site	supercomputer	storage
group	sum	sum <i>PiB</i>			
US	321184	292.06	AFRL, ANL, ARL, ERDC DSRC, LANL, LLNL, NASA, NCSA, NERSC, ORNL, PGS, PNL, TACC	Thunder, Mira, Excalibur, Topaz, Trinity, Sequoia, Pleiades, Blue Waters, Cori Phase I, Titan, Abel, Cascade, Stampede	Lustre, GPFS, Lustre, Lustre, Lustre, Lustre, Lustre, Lustre, HPSS, Lustre, Lustre, Lustre, Lustre, Lustre
DE	42338	96.18	DKRZ, HLRS, JSC, LRZ	Mistral, Hazel Hen, Juqueen, SuperMUC	HPSS, Lustre02, Lustre01, HPSS, Lustre, HPSS, JUST, GPFS
JP	88064	71.64	GSIC, JAMSTEC, NA, RIKEN	Tsubame, Earth Simulator, PRIMEHPC, K Computer	Lustre, Archive, Home, Data, Work, Lustre, Lustre, FEFS
CN	56960	30.55	NSCC, NUDT	Tianhe-1A, TaihuLight, Tianhe-2	Lustre, Sunway, Lustre
KR		19.27	KMA	Miri	Lustre
SAU	6174	15.28	KAUST	Shaheen II	HPSS, Lustre
IT	1500	12.61	CINECA, ENI	Fermi, HPC2	GPFS, GPFS
FR	4608	8.17	TEP	Pangea	Lustre
UK		5.33	ECMWF	Cray XC40	HPSS, Lustre
CHE	5772	2.22	CSCS	Piz Daint	Lustre

- aggregation: **sum**, avg, max
- metrics
 - site
 - + energy consumption, power usage effectiveness
 - -
 - supercomputer

- + compute_peak, total_cores, memory_capacity, energy_consumption, graph500, graph500_problem_scale, top500, green500, memory_bandwidth
- - node_count
- *storage*
 - + energy_consumption, drives, cache_size, slots, peak, metadata_rate, sustained_write, sustained_read, servers, hdds, ssds
 - - capacity
- *group by*
 - site: **nationality**, web_page
 - supercomputer: vendor, software, installation, application_domain, applications, interconnect, processor, architecture, memory_per_node
 - storage: type, installation, interconnect, vendor, software, hardware
 - *filter by*: US, DE, JP, CN, KR, SAU, IT, FR, UK, CHE, none