



2019-01

This is an intermediate list based on corrected calculations¹⁾ for the IO-500 **ranked list**²⁾ from November 2018 (from SC 2018 [<https://sc18.supercomputing.org/>]).

Please see also [the 10 node challenge ranked list](#).

The list shows the best result for a given combination of system/institution/filesystem.

#	information							io500		
	institution	system	storage vendor	filesystem type	client nodes	client total procs	data	score	bw	md
									GiB/s	kIOP/s
1	Oak Ridge National Laboratory	Summit	IBM	Spectrum Scale	504	1008	zip	330.56	88.20	1238.93
2	University of Cambridge	Data Accelerator	Dell EMC	Lustre	528	4224	zip	158.71	71.40	352.75
3	Korea Institute of Science and Technology Information (KISTI)	NURION	DDN	IME	2048	4096	zip	156.91	554.23	44.43
4	JCAHPC	Oakforest-PACS	DDN	IME	2048	16384	zip	137.78	560.10	33.89
5	WekaIO	WekaIO	WekaIO		17	935	zip	78.37	37.39	164.26
6	KAUST	ShaheenII	Cray	DataWarp	1024	8192	zip	77.37	496.81	12.05
7	University of Cambridge	Data Accelerator	Dell EMC	BeeGFS	184	5888	zip	74.58	58.81	94.57
8	Google	Exascaler on GCP	Google	Lustre	120	960	zip	47.23	23.06	96.74
9	JCAHPC	Oakforest-PACS	DDN	Lustre	256	8192	zip	42.18	20.04	88.78
10	KAUST	ShaheenII	Cray	Lustre	1000	16000		41.00*	54.17	31.03*
11	JSC	JURON	ThinkparQ	BeeGFS	8	64		35.77*	14.24	89.81*

12	DKRZ	Mistral	Seagate	Lustre	100	1000		32.15	22.77	45.39
13	DDN	Bancholab	DDN	Lustre	10	240	zip	31.50	6.33	156.69
14	IBM	Sonasad	IBM	Spectrum Scale	10	10	zip	24.24	4.57	128.61
15	Clemson University	ofsdev	Dell	BeeGFS	32	32	zip	22.02	8.55	56.68
16	Fraunhofer	Seislab	ThinkparQ	BeeGFS	24	24		16.96	5.13	56.14
17	Joint Institute for Nuclear Research	Govorun	RSC	Lustre	24	192	zip	12.08	3.34	43.65
18	PNNL	EMSL Cascade		Lustre	126	252		11.12	4.88	25.33
19	Queen Mary; University Of London	Apocrita	E8	GPFS	10	240	zip	9.65	4.32	21.55
20	Clemson University	Palmetto	Dell	BeeGFS	48	48	zip	7.64	2.93	19.88
#	information							io500		
	institution	system	storage vendor	filesystem type	client nodes	client total procs	data	score	bw	md
									GiB/s	kIOP/s
21	CERN	Byt collider		CephFS	64	64	zip	7.56	2.83	20.16
22	SNL	Serrano	IBM	Spectrum Scale	16	160		4.25*	0.65	27.98*
23	STFC	Jasmin/Lotus	Purestorage	NFS	64	128	zip	2.33	0.26	20.93
24	Clemson University	Palmetto	Dell	OrangeFS	32	32	zip	2.31	1.93	2.77
25	Nemours	nas6	DDN	GPFS	1	2	zip	2.06	1.39	3.04
26	Nemours	nas6	DDN	GPFS	1	2	zip	1.52	0.74	3.11

[Download shown table as CSV](#)

[Download the full list with all data as CSV](#)

Values with indicate that a value for the computation was missing.*

See also [the 10 node challenge ranked list](#).

Further lists with more detail can be found on the navigation menu. For example, [the full list with radar chart and](#)

configurable scoring.

1)

We fixed the computation of the mdtest score that had a bug by computing the rate using the external measured timing.

2)

That means only those entries that qualify according to the wish of the submitter are contained.