

Livermore Computing Systems Summary

System	Top500 Rank	Program	Manufacture/ Model	Processor Architecture	OS	Inter-connect	Avg Power Demand (KW)	Nodes	Cores*	Memory (GB)	Peak TFLOP/s
Unclassified Network (OCF)											
Tuolumne	10	ASC+M&IC	HPE	4th Generation AMD E	TOSS	Slingshot	TBD		1,161,216		288,880.0
Lassen	72	ASC+M&IC	IBM	IBM P9	RHEL	2x IB EDR	TBD	792	288,288	253,440	23,047.2
Dane (CTS-2)	160	ASC+M&IC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	TBD	1,544	167,552	382,976	10723.0
RZHound		ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	TBD	386	41,888	95,744	2655.4
RZAdams	49	ASC	HPE	4th Generation AMD EPYC	TOSS	Slingshot	TBD	128	129,024	TBD	32100.0
RZVernal	199	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	TBD	38	2,432	38,912	6917.9
RZAnsel		ASC	IBM	IBM P9	RHEL	2x IB EDR	TBD	54	2,376	17,280	1,570.0
Tioga	222	ASC+M&IC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	TBD	32	30,208	32,768	5,825.6
Mammoth		ASC+M&IC	Supermicro	AMD Rome	TOSS	Omni-Path	TBD	69	8,832	131,072	294.0
Ruby	272	ASC+M&IC+CARES	Supermicro	Intel Xeon CLX-8276L	TOSS	Omni-Path	TBD	1,512	84,672	290,304	5959.2
Corona		ASC+M&IC+CARES	Penguin, Supermicro	AMD Naples, AMD Rome	TOSS	IB HDR	TBD	291	13,968	127,488	11335.0
Borax (CTS-1)		ASC+M&IC	Penguin	Intel Xeon E5-2695 v4	TOSS	N/A	TBD	48	1,728	6,144	58.1
RZTrona (CTS-1)		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	N/A	TBD	48	1,728	6,144	58.1
OCF Totals	Systems	13									389,423.5
Classified Network (SCF)											
Pinot(SNSI)		M&IC	Penguin	Intel Xeon E5-2695	TOSS	Omni-Path	TBD	187	6,732	23,936	232.2
El Capitan*	1	ASC	HPE	4rd Generation AMD EPYC	TOSS	Slingshot	TBD		11,039,616		2,746,380.0
Sierra	14	ASC	IBM	IBM P9	RHEL	2x IB EDR	TBD	4,320	1,572,480	1,382,400	125,626.0
Tenaya	299	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	TBD	24	22,656	24,576	4,369.2
Bengal	159	ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	TBD	1,158	125,664	287,232	7,966.2
Jade+Jadeita (CTS-1)	413	ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	Omni-Path	TBD	2,688	96,768	344,064	3251.4
Mica		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	Omni-Path	TBD	384	13,824	49,152	464.5
Magma	310	ASC	Penguin	Intel Cascade Lake AP 9242	TOSS	Omni-Path	TBD	722	69,312	296,448	5454.0
Tron		ASC	Supermicro	Intel Cascade Lake	TOSS	IB EDR	TBD	146	4,672	56,064	433.6
Agate (CTS-1)		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	N/A	TBD	48	1,728	6,144	58.1
SCF Totals	Systems	10									#####
Combined Totals		23									3,283,658.7

System Category	TFLOP/s	% of Total
Unclassified	389,423.5	11.9%
Capability	326,240.7	83.8%
Capacity	63,066.6	16.2%
Visualization	0.0	0.0%
Serial	116.2	0.0%

System Category	TFLOP/s	% of Total
Classified	2,894,235.2	88.1%
Capability	2,876,375.2	99.4%
Capacity	17,368.3	0.6%
Visualization	433.6	0.0%
Serial	58.1	0.0%

*Cores for GPU systems are CPU+GPU based on Top500 numbers