

Livermore Computing Systems Summary

System	Top500 Rank	Program	Manufacture/ Model	Processor Architecture	OS	Inter-connect	Nodes	Cores*	Memory (GB)	Peak TFLOP/s
Unclassified Network (OCF)										
Tuolumne	14	ASC+M&IC	HPE	4th Generation AMD EPYC	TOSS	Slingshot		1,161,216		288,880.0
Dane	245	ASC+M&IC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	1,544	167,552	382,976	10723.0
RZHound		ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	386	41,888	95,774	2655.4
RZAdams	87	ASC	HPE	4th Generation AMD EPYC	TOSS	Slingshot	128	129,024	TBD	32100.0
RZVernal	289	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	38	2,432	38,912	6917.9
Tioga	315	ASC+M&IC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	32	30,208	32,768	5825.6
Mammoth		ASC+M&IC	Supermicro	AMD Rome	TOSS	Omni-Path	69	8,832	131,072	294.0
Corona		ASC+M&IC+CARES	Penguin, Supermicro	AMD Naples, AMD Rome	TOSS	IB HDR	291	13,968	127,488	11335.0
Matrix	433	ASC+M&IC	Dell	Intel Xeon Platinum 8480+	TOSS	IB NDR	30	1,792	8,064	4000.0
RZTrona		ASC	Penguin	Intel Xeon ES-2695 v4	TOSS	N/A	48	1,728	6,144	58.1
OCF Totals	Systems	10								362,789.0
Classified Network (SCF)										
Pinot (SNSI)		M&IC	Penguin	Intel Xeon ES-2695	TOSS	Omni-Path	187	6,732	23,936	232.2
El Capitan	2	ASC	HPE	4th Generation AMD EPYC	TOSS	Slingshot		11,039,616		2746380.0
Tenaya	392	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	24	22,656	24,576	4369.2
Bengal	243	ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	1,158	125,664	287,232	7966.2
Lynx	278	ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	913	102,256	467,456	6400.0
Jade+Jadeita		ASC	Penguin	Intel Xeon ES-2695 v4	TOSS	Omni-Path	2,688	96,768	344,064	3251.4
Mica		ASC	Penguin	Intel Xeon ES-2695 v4	TOSS	Omni-Path	384	13,824	49,152	464.5
Magma	403	ASC	Penguin	Intel Cascade Lake AP 9242	TOSS	Omni-Path	722	69,312	296,448	5454.0
Tron		ASC	Supermicro	Intel Cascade Lake	TOSS	IB EDR	146	4,672	56,064	433.6
Agate		ASC	Penguin	Intel Xeon ES-2695 v4	TOSS	N/A	48	1,728	6,144	58.1
SCF Totals	Systems	10								2,775,009.2
Combined Totals		20								3,137,798.2

System Category	TFLOP/s	% of Total
Unclassified	362,789.0	11.6%
Capability	301,623.5	83.1%
Capacity	57,107.4	15.7%
Visualization	4,000.0	1.1%
Serial	58.1	0.0%

System Category	TFLOP/s	% of Total
Classified	2,775,009.2	88.4%
Capability	2,750,749.2	99.1%
Capacity	23,768.3	0.9%
Visualization	433.6	0.0%
Serial	58.1	0.0%