

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	12	ASC+M&IC	HPE	4th Generation AMD El	TOSS	Slingshot	TBD		1,161,216		288,880.0
Dane (CTS-2)	189	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	63	ASC	HPE	4th Generation AMD EPYC	TOSS	Slingshot	TBD	128	129,024	TBD	32100.0
RZVernal	231	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	TBD	38	2,432	38,912	6917.9
Tioga	257	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
Corona		ASC+M&IC+CARES	Penguin, Supermicro	AMD Naples, AMD Rome	TOSS	IB HDR	TBD	291	13,968	127,488	11335.0
Matrix	406	ASC+M&IC	Dell	Intel Xeon Platinum 8480+	TOSS	IB NDR	TBD	30	1,792	8,064	4000.0
RZTrona (CTS-1)		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	N/A	TBD	48	1,728	6,144	58.1
OCF Totals	Systems	10									362,789.0
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
Tenaya	337	ASC	HPE	3rd Generation AMD EPYC	TOSS	Slingshot	TBD	24	22,656	24,576	4,369.2
Bengal	187	ASC	Dell	Intel Xeon Platinum 8480	TOSS	Cornelis	TBD	1,158	125,664	287,232	7,966.2
Jade+Jadeita (CTS-1)	454	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	348	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	9									2,768,609.2
Combined Totals		19									3,131,398.2

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	2,768,609.2	88.4%
Capability	2,750,749.2	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