

## 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
<b>Unclassified Network (OCF)</b>											
Vulcan	39	ASC+M&IC+HPCIC	IBM BGQ	IBM PowerPC A2	RHEL/CNK	5D Torus	TBD	24,576	393,216	393,216	5,033.2
Lassen	11	ASC+M&IC	IBM	IBM P9	RHEL	2x IB EDR	TBD	684	30,096	218,880	19,886.0
Quartz (CTS-1)	71	ASC+M&IC	Penguin	Intel Xeon E5-2695 v4	TOSS	Omni-Path	TBD	2,688	96,768	344,064	3251.4
Pascal		ASC+M&IC	Penguin	Intel Xeon E5-2695 v4	TOSS	IB EDR	TBD	163	5,868	41,728	1700.0
RZTopaz		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	Omni-Path	TBD	768	27,648	98,304	929.0
RZManta		ASC	IBM	IBM Power8+	RHEL	IB EDR	TBD	36	720	11,520	597.6
Ray		ASC+M&IC	IBM	IBM Power8+	RHEL	IB EDR	TBD	54	1,080	17,280	896.4
RZAnsel	247	ASC	IBM	IBM P9	RHEL	2x IB EDR	TBD	54	2,376	17,280	1,570.0
Catalyst		ASC+M&IC	Cray	Intel Xeon E5-2695 v2	TOSS	IB QDR	TBD	324	7,776	41,472	149.3
Syrah		ASC+M&IC	Cray	Intel Xeon E5-2670	TOSS	IB QDR	TBD	324	5,184	20,736	107.8
Surface		ASC+M&IC	Cray	Intel Xeon E5-2670	TOSS	IB FDR	TBD	162	2,592	41,500	451.9
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
<b>OCF Totals</b>	<b>Systems</b>	13									<b>34,688.8</b>
<b>Classified Network (SCF)</b>											
Pinot(TLCC2, SNSI)		M&IC	Appro	Intel Xeon E5-2670	TOSS	IB QDR	TBD	162	2,592	10,368	53.9
Sequoia	10	ASC	IBM BGQ	IBM PowerPC A2	RHEL/CNK	5D Torus	TBD	98,304	1,572,864	1,572,864	20132.7
Sierra	2	ASC	IBM	IBM P9	RHEL		TBD	4,320	190,080	1,382,400	125,626.0
Zin (TLCC2)		ASC	Appro	Intel Xeon E5-2670	TOSS	IB QDR	TBD	2,916	46,656	93,312	961.1
Jade+Jadeita (CTS-1)	70	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
Shark		ASC	IBM	IBM Power8+	RHEL	IB EDR	TBD	36	720	11,520	597.6
Max		ASC	Appro	Intel Xeon E5-2670	TOSS	IB FDR	TBD	324	5,184	82,944	107.8
Agate (CTS-1)		ASC	Penguin	Intel Xeon E5-2695 v4	TOSS	N/A	TBD	48	1,728	6,144	58.1
<b>SCF Totals</b>	<b>Systems</b>	9									<b>151,253.1</b>
<b>Combined Totals</b>		22									<b>185,941.9</b>

System Category	TFLOP/s	% of Total
<b>Unclassified</b>	<b>34,688.8</b>	<b>18.7%</b>
Capability	27,983.2	80.7%
Capacity	4,437.5	12.8%
Visualization	2,151.9	6.2%
Serial	116.2	0.3%

System Category	TFLOP/s	% of Total
<b>Classified</b>	<b>151,253.1</b>	<b>81.3%</b>
Capability	146,356.3	96.8%
Capacity	4,730.9	3.1%
Visualization	107.8	0.1%
Serial	58.1	0.0%