

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)											
Vulcan	21	ASC+M&IC+HPCIC	IBM BGQ	IBM PowerPC A2	RHEL/CNK	5D Torus	TBD	24,576	393,216	393,216	5,033.2
Cab (TLCC2)		ASC+M&IC+HPCIC	Appro	Intel Xeon E5-2670	TOSS	IB QDR	564	1,296	20,736	41,472	426.0
Quartz (CTS-1)	41	ASC+M&IC	Penguin	Intel Xeon E5-2695 v4	TOSS	Omni-Path	TBD	2,688	96,768	344,064	3251.4
RZMerl (TLCC2)		ASC+ICF	Appro	Intel Xeon E5-2670	TOSS	IB QDR	TBD	162	2,592	5,184	53.9
RZZeus		M&IC	Appro	Intel Xeon E5530	TOSS	IB DDR	143	267	2,144	6,408	20.6
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
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
Herd		M&IC	Appro	AMD Opteron 8356, 6128 Intel EX E7-4850	TOSS	IB DDR	7	9	256	1,088	1.6
OCF Totals	Systems	14									12,034.9
Classified Network (SCF)											
Pinot(TLCC2, SNSI)		M&IC	Appro	Intel Xeon E5-2670	TOSS	IB QDR	TBD	162	2,592	10,368	53.9
Sequoia	4	ASC	IBM BGQ	IBM PowerPC A2	RHEL/CNK	5D Torus	TBD	98,304	1,572,864	1,572,864	20132.7
Zin (TLCC2)	164	ASC	Appro	Intel Xeon E5-2670	TOSS	IB QDR	TBD	2,916	46,656	93,312	961.1
Jade+Jadeita (CTS-1)	42	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
SCF Totals	Systems	8									25,627.1
Combined Totals		22									37,662.0