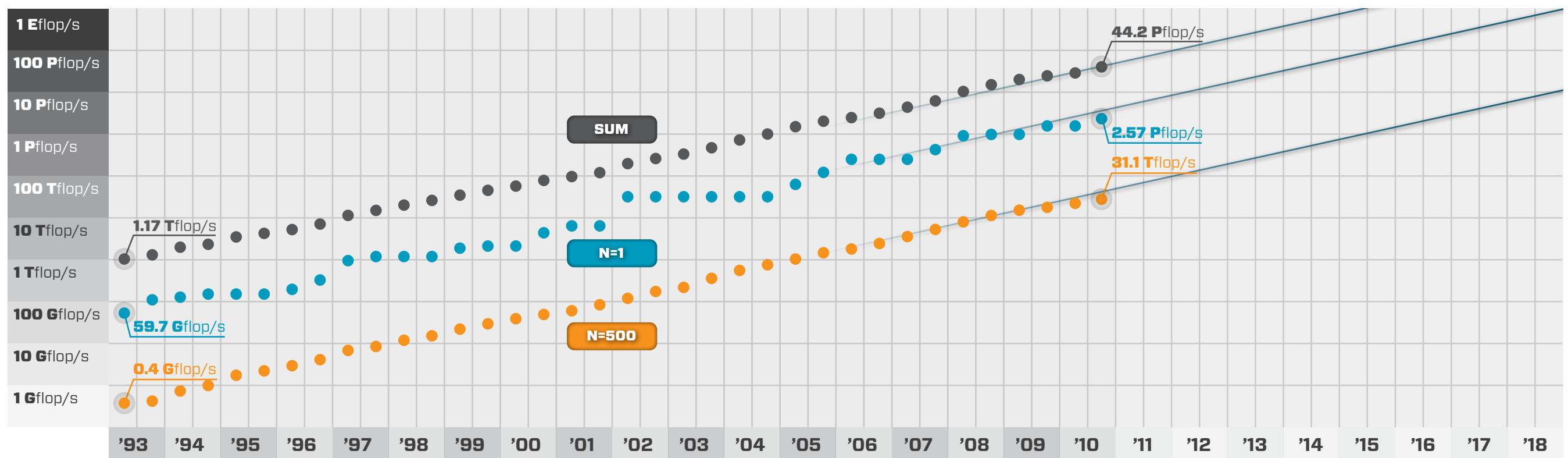


# TOP 500<sup>®</sup> NOVEMBER 2010

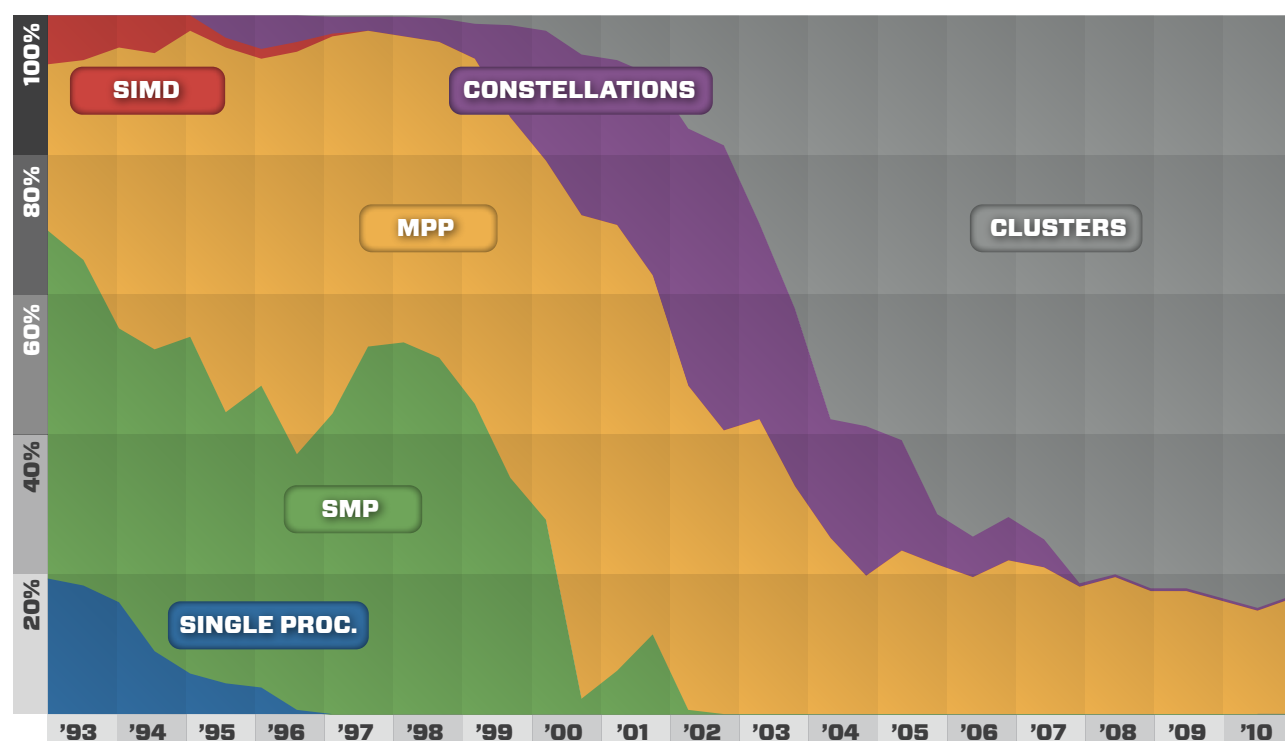
	NAME/MANUFACTURER/COMPUTER	LOCATION	COUNTRY	CORES	R <sub>max</sub> Pflop/s
1	<b>Tianhe-1A</b> NUDT 6-core Intel X5670 2.93 GHz + Nvidia M2050 GPU w/custom interconnect	NUDT/NSCC/Tianjin	China	186,368	2.57
2	<b>Jaguar</b> Cray XT-5 6-core AMD 2.6 GHz w/custom interconnect	DOE/SC/ORNL	USA	224,162	1.76
3	<b>Nebulae</b> Dawning TC3600 Blade Intel X5650 2.67 GHz, NVidia Tesla C2050 GPU w/ Iband	NSCS	China	120,640	1.27
4	<b>Tsubame 2.0</b> HP Proliant SL390s G7 nodes (Xeon X5670 2.93GHz) , NVIDIA Tesla M2050 GPU w/Iband	TiTech	Japan	73,278	1.19
5	<b>Hopper</b> Cray XE-6 12-core AMD 2.1 GHz w/custom interconnect	DOE/SC/LBNL	USA	153,408	1.05

## PERFORMANCE DEVELOPMENT

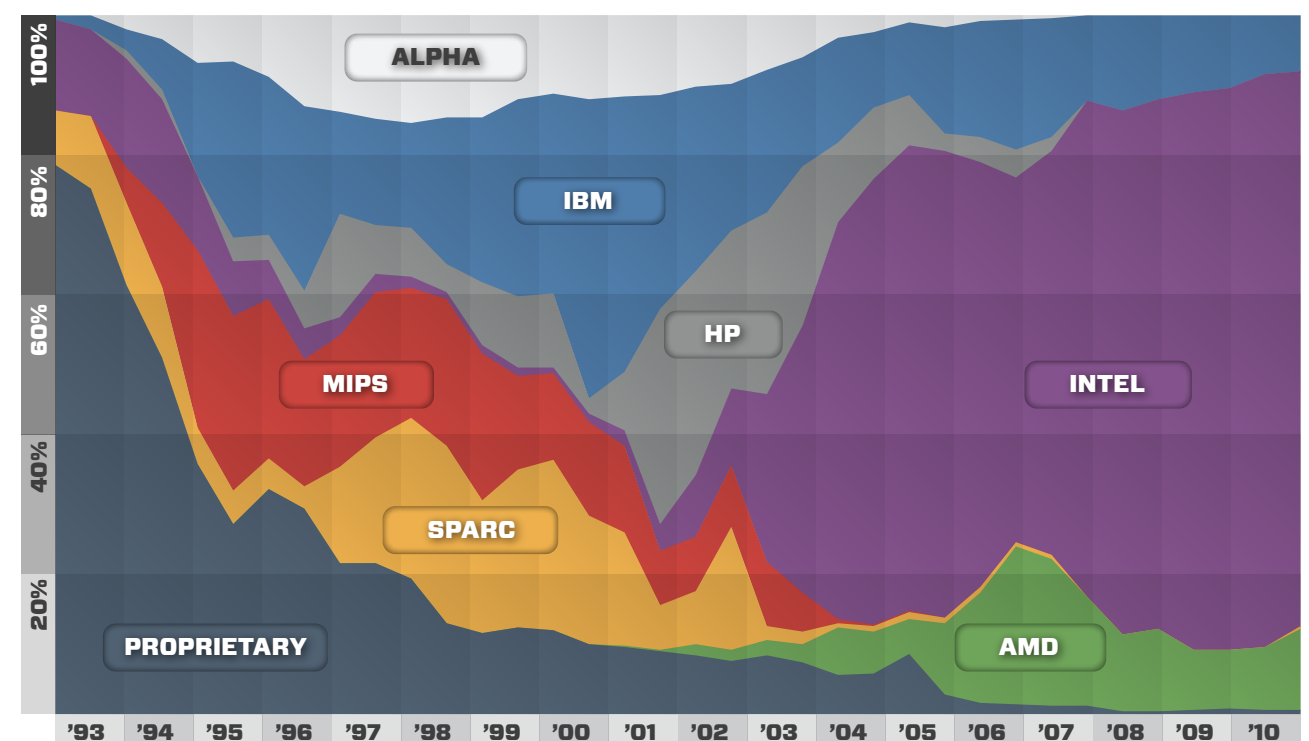


## PROJECTED

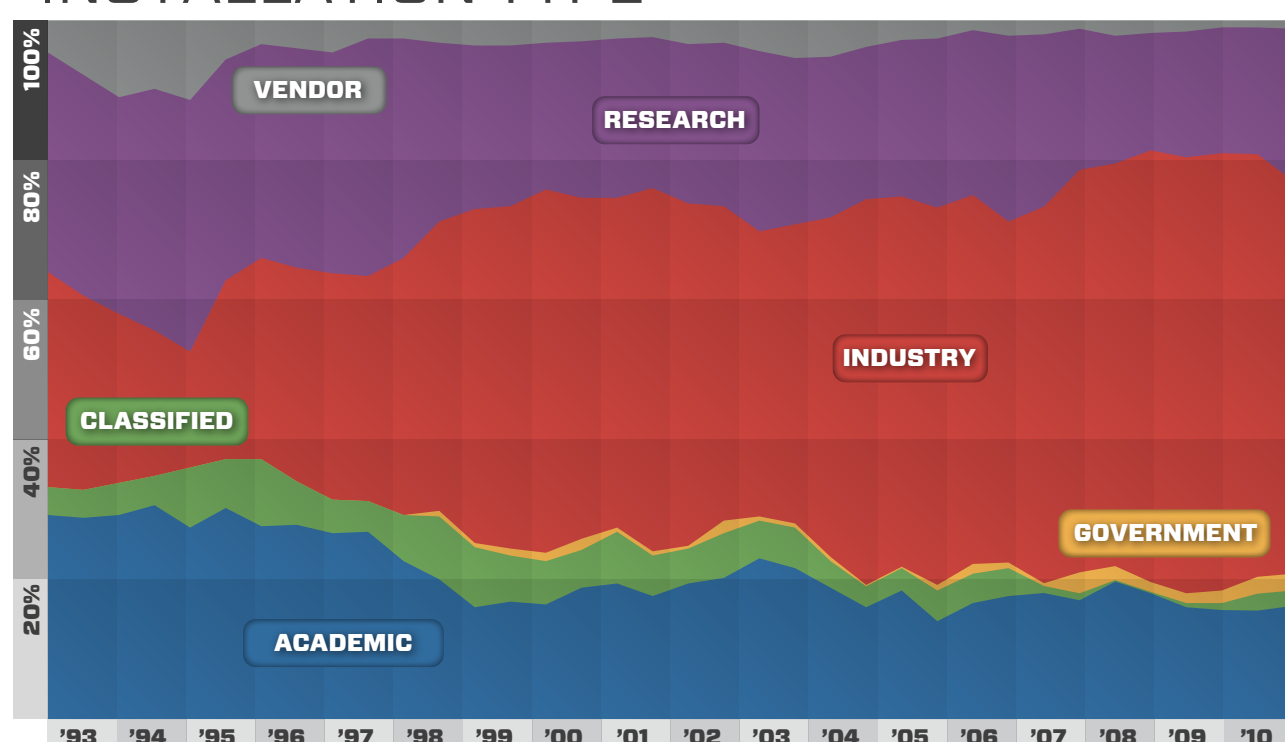
## ARCHITECTURES



## CHIP TECHNOLOGY



## INSTALLATION TYPE



## HPLINPACK

**A Portable Implementation of the High Performance Linpack Benchmark for Distributed Memory Computers**

- Algorithm: recursive panel factorizations, multiple lookahead depths, bandwidth reducing swapping
- Easy to install, only needs MPI + BLAS or VSIPL
- Highly scalable and efficient from the smallest cluster to the largest supercomputers in the world

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