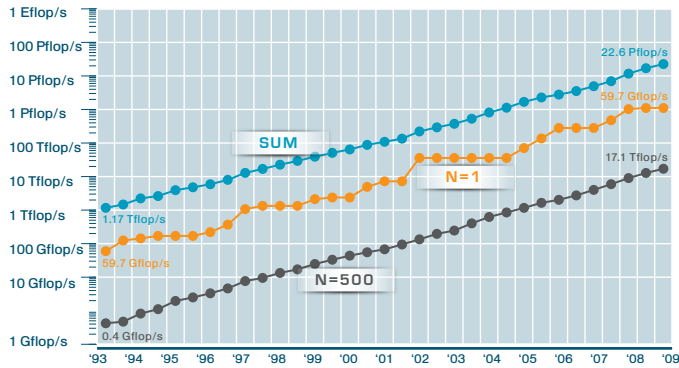
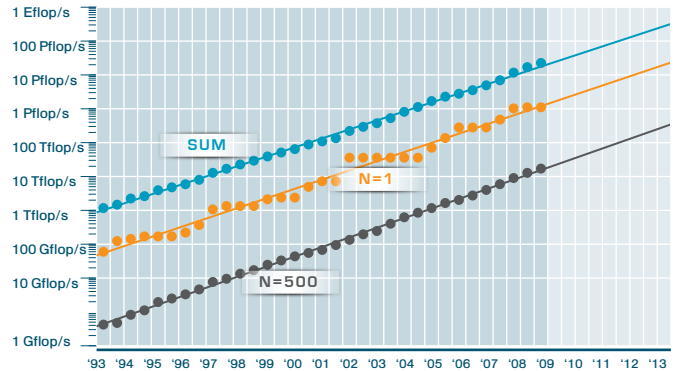


|   | MANUFACTURER/COMPUTER   | LOCATION                      | COUNTRY | CORES  | R <sub>max</sub> |
|---|---|-------------------------------|---------|--------|------------------|
| 1 | IBM BladeCenter QS22/LS21, PowerXCell 3.2 Ghz / Opteron 1.8 GHz, Voltaire Iband | DOE/NNSA/LANL                 | USA     | 129600 | 1105000          |
| 2 | Cray XT5 QC 2.3 Ghz   | DOE/OS/ORNL                   | USA     | 150152 | 1059000          |
| 3 | IBM Blue Gene/P Solution  | Forschungszentrum Juelich     | Germany | 294912 | 825500           |
| 4 | SGI Altix ICE 8200EX, Xeon QC 3.0/2.66 Ghz                                      | NASA/Ames Research Center/NAS | USA     | 51200  | 487005           |
| 5 | IBM BlueGene/L - eServer Blue Gene Solution                                     | DOE/NNSA/LLNL                 | USA     | 212992 | 478200           |

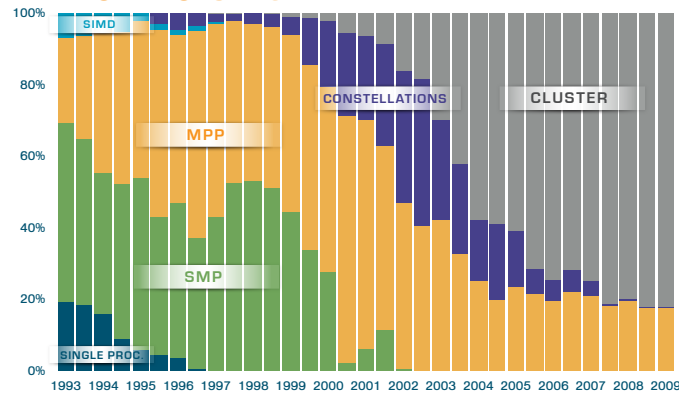
## PERFORMANCE DEVELOPMENT



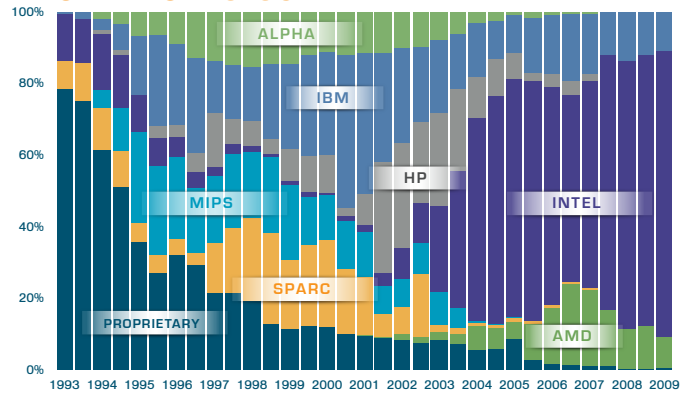
## PROJECTED PERFORMANCE DEVELOPMENT



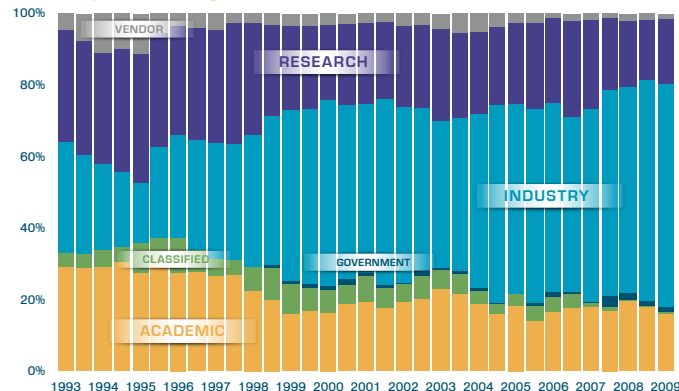
## ARCHITECTURES



## 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 VSIBL

Highly scalable and efficient from the smallest cluster to the largest supercomputers in the world