



				The Power challenge	
	<ul> <li>Chips         <ul> <li>2009: CPU = 130 W (45 nm)</li> <li>2009: SoC Consumer 10W</li> <li>2009: SoC Mobile = 1 W</li> </ul> </li> <li>HP Computers (Top 500)         <ul> <li>2009: 500mw/GFLOP wall</li> <li>2011: 1PFLOP = 1MW</li> <li>2016 : 1ExaFLOP= 1 GW (projection)</li> </ul> </li> </ul>				
	Rank	Computer	Cores	GFLOPS	Power KW
	1	NUDT	186 368	2 566 000	4 040
	2	Cray	224 162	1 759 000	6 950
	3	Dawning	120 640	1 271 000	2 580
	4	HP	73 278	1 192 000	1 398
	5	Cray	153 408	1 054 000	2 910
	6	Bull	138 368	1 050 000	4 590
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