









Current Multicores (adapted from David Patterson, 2007)						
	(intel)		IBM	Sun microsystems		
Name	Clovertwn	Opteron	Cell	Niagara 2		
Chips*Cores	2*4 = 8	2*2 = 4	1*8 = 8	1*8 = 8		
Clock Rate	2.3 GHz	2.2 GHz	3.2 GHz	1.4 GHz		
Peak MemBW	21 GB/s	21 GB/s	26 GB/s	41 GB/s		
Peak GFLOPS	74.6 GF	17.6 GF	14.6 GF	11.2 GF		
Naïve SpMV (median of many matrices)	1.0 GF	0.6 GF		2.7 GF		
Efficiency %	1%	3%		24%		
Sparse Matrix * Vector operations						

Current Multicores (adapted from David Patterson, 2007)						
	(intel)		IBM	Sun microsystems		
Name	Clovertwn	Opteron	Cell	Niagara 2		
Chips*Cores	2*4 = 8	2*2 = 4	1*8 = 8	1*8 = 8		
Clock Rate	2.3 GHz	2.2 GHz	3.2 GHz	1.4 GHz		
Peak MemBW	21 GB/s	21 GB/s	26 GB/s	41 GB/s		
Peak GFLOPS	74.6 GF	17.6 GF	14.6 GF	11.2 GF		
Naïve SpMV (median of many matrices)	1.0 GF	0.6 GF	 pertise is require	2.7 GF		
Efficiency %	1%	3% <sup>ap</sup>	proach peak FLO	<sup>PS!</sup> 24%		
Sparse Matrix * Vector operations						

















