

Two Kernels (1 power + 1 reduce sum) -> 2 copies CPU <-> GPU									
		Matrix Size (s)							
		2000x4000	4000x2000	10000x40000	40000x10000				
Thread per Block	32	0.193634 + 0.006150 <b>0.199784</b>	0.200827 + 0.006302 <b>0.207129</b>	0.707466 + 0.249694 <b>0.95716</b>	0.710917 + 0.249815 <b>0.960732</b>				
	64	0.202225 + 0.006194 <b>0.208419</b>	0.206941 + 0.005839 <b>0.21278</b>	0.718469 + 0.254589 <b>0.973058</b>	0.716244 + 0.254347 <b>0.970591</b>				
	128	0.192099 + 0.006205 <b>0.198304</b>	0.191475 + 0.005970 <b>0.197445</b>	0.715279 + 0.273626 <b>0.988905</b>	0.704865 + 0.254299 <b>0.959164</b>				
One single Kernel (power + reduce sum) -> Only one copy CPU <-> GPU									
		Matrix Size (s)							
		2000x4000	4000x2000	10000x40000	40000x10000				
Thread per Block	32	0.209592	0.203447	0.334091	0.332158				
	64	0.205405	0.179097	0.329866	0.335435				
	128	0.18238	0.177194	0.362994	0.343992				
Two Kernels (1 power + 1 reduce sum) -> Only one copy CPU <-> GPU, sharing Power Matrix ref with reduce sum									
		Matrix Size (s)							
		2000x4000	4000x2000	10000x40000	40000x10000				
Thread per Block	32	0.187509	0.176152	0.329446	0.336244				
	64	0.19906	0.20084	0.335179	0.348333				
	128	0.19048	0.194846	0.331039	0.322193				

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*****
*
*      JOB EFFICIENCY REPORT (seff 5006525)
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*****
Job ID: 5006525
Cluster: finisterrae3
User/Group: curso378/ulc
State: COMPLETED (exit code 0)
Nodes: 1
Cores per node: 32
CPU Utilized: 00:00:03
CPU Efficiency: 1.34% of 00:03:44 core-walltime
Job Wall-clock time: 00:00:07
Memory Utilized: 816.00 KB
Memory Efficiency: 0.00% of 96.00 GB

+++++
++  Memory Efficiency is too small. Please review the requested memory.  ++
++  It seems that you do not need that much memory so we recommend    ++
++  requesting less memory in other similar jobs.                      ++
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