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Performance Analysis for Subroutine CNDF ; Time used=2:56:13



Total Processor Performance
(64-bit floating point operations per second)

Tera	Giga	Mega	Kilo	Flops
50	276	744	698	247

Component Performance (Gflops)

Routine	All	40 CPU s	GPU 1 33 °C 1312 MHz 57 Watts	GPU 2 34 °C 1312 MHz 55 Watts	GPU 3 34 °C 1312 MHz 56 Watts	GPU 4 32 °C 1312 MHz 54 Watts	GPU 5 31 °C 1312 MHz 55 Watts	GPU 6 33 °C 1312 MHz 56 Watts	GPU 7 35 °C 1312 MHz 56 Watts	GPU 8 31 °C 1312 MHz 54 Watts
Matrix Multiply CPU(0%)	51730	0	6502	6519	6530	6515	6493	6494	6504	6503
Triangle Solve CPU(0%)	48636	0	6173	6229	6221	6203	6100	6080	6161	6250
Diagonal Factor	23893	9	3123	3111	3130	3122	3133	3129	3129	3124

GPU model = Tesla V100-SXM2-16GB

Time (Sec.)

Routine	All	CPU s	GPU 1	GPU 2	GPU 3	GPU 4	GPU 5	GPU 6	GPU 7	GPU 8
Matrix Multiply	5269	0	5240	5226	5217	5230	5247	5246	5238	5239
Triangle Solve	1142	0	1125	1114	1116	1119	1138	1142	1127	1111
Diagonal										

Factor	219	10	207	208	208	209	209	210	211	213
Total Compute	6630	10	6572	6549	6541	6558	6594	6598	6576	6563
Assembly	55									
I/O wait	3239									
HTML	28									
Other	677									
Overall	10574									

Times and Problem

Job Started	0	09:03:38 Thu Apr 12 2018	Equations	500000	Compute Rate (Gflops)	50277
Routine Started	186	09:06:44 Thu Apr 12 2018	Vectors	0	Read Rate (MBytes/Sec.)	2082
Current Time	10761	12:03:00 Thu Apr 12 2018	Block Size	63488 X 63488	Disk->Memory Reuse	126976
Estimated Completion	10761	12:03:00 Thu Apr 12 2018	Data Type	Complex	Disk Speed / Compute Speed	0.66