HPC2002 Result

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DELL
PowerEdge 1750 cluster

SPECseisM2002 = NC

SPEC license # HPG0007A	Tested by: Purdue University	Test site: Purdue University	Test date: Dec-2004	Hardware Avail: Apr-2004	Software Avail: May-2004
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SPEC has determined that this result was not in compliance with the SPEC HPC2002 run and reporting rules. Specifically, the result violated run rule 5.0 ("Run Rule Exceptions") in that unapproved source code changes, made to comply with the Fortran standard, were used. Replacement results that use an approved alternate source can be found at: http://www.spec.org/hpc2002/results/res2005q2/hpc2002-20050504-00137.html

Benchmark	Reference Time	Runtime	Ratio
351.seis_m	86400	NC	NC
SPECseisM2002	NC		

	Hardware	Software		
Hardware Vendor:	DELL	Parallel:	MPI	
Model Name:	Danier Edge 1750 alegan	Processes-Threads:	16	
	PowerEdge 1750 cluster	MPI Processes:	16	
CPU:	Intel Xeon processor	OpenMP Threads:		
CPU MHz:	3060	Operating System:	RedHat Enterprise Linux, Advanced Server version 3 (4) Intel C++ Compiler- icc, Version 8.0 Build 20031016Z for Linux Intel Fortran Compiler- ifort, Version 8.0 Build 20040122Z for Linux	
FPU:	Integrated	operating bystem.		
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip, Hyper-Threading enabled	Compiler:		
CPU(s) orderable:	1 or 2 per node			
Primary Cache:	12KB (I) micro-ops (trace) + 8KB (D) on chip			
Secondary Cache:	512KB on chip	File System:	NFS shared file system	
L3 Cache:	1 MB on chip	System State:	Multi-user	
Other Cache:	N/A	Other Software:	MPICH	
Memory:	2 GB DDR PC2100 CL2.5 ECC Registered per node			
Disk Subsystem:	1x36 GB SCSI per node			
Other Hardware:	See File server and Network notes			

Notes / Tuning Information Flags (Fortran & C): CPP Flags: -I. -C -P -traditional -DMPI -DSPEC_HPG_MPI COPTIMIZE = -03 -static -xW -axW -tpp7 -march=pentium4 -mcpu=pentium4 \ -Dmpi -DSPEC_HPG_MPI -DSPECDONOTNEEDARG -DFORTRAN_UNDERSCORE \ -I/opt/mpich-1.2.6/p4-intel/include FOPTIMIZE = -03 -mp -static -fp_port -I/opt/mpich-1.2.6/p4-intel/include LDOPTIONS = -03 -mp -static -L/opt/intel_cc_80/lib -lcxa Submit command to run MPI application: use_submit_for_speed=1 MPI_COMM_SIZE=16 submit=mpiexec -n "\\$MPI_COMM_SIZE" \$command Hardware notes: Cluster config: Nodes and file server use NFS shared file system Two CPUs per node, Hyperthreading ENABLED File server: 2 x 3.06 GHz Intel Xeon processors 4 GB DDR PC2100 CL2.5 ECC Registered Memory 5 x 72 GB 10K RPM SCSI Drives Hardware RAID-5 (Dell PERC/3Di option) Debian Linux, 3.1 "sarge" ext3 local file system Network (for computation and file server): Cisco 6509 Gigabit Ethernet Switch Built-in Gigabit Ethernet Adapters All BIOS parameters left with factory defaults For a description of Intel compiler flags, portability flags, and system parameters used to generate this result, please refer to PURDUE-20050329-INTEL-LINUX-XEON.txt in the flags diretory. Submitted_by: "Sayeed, Mohamed" Submitted: Thu Mar 31 11:28:31 2005 Submission: hpc2002-20050226-00123.sub

For questions about this result, please contact the tester.

For other inquiries, please contact webmaster@spec.org

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