OMPM2001 Result

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SGI

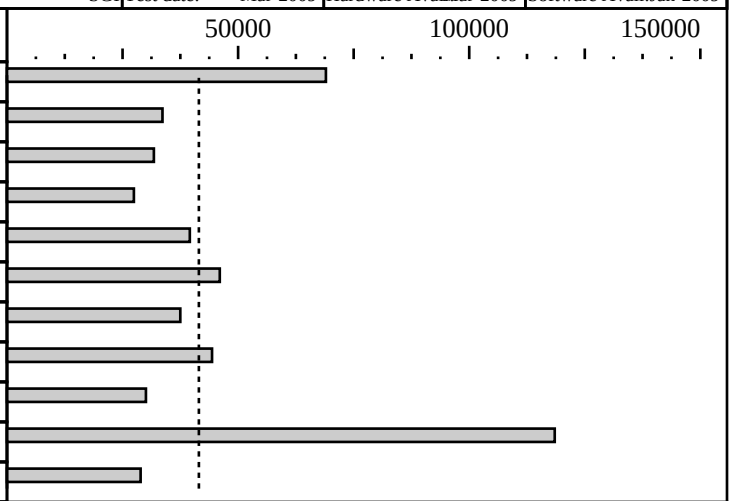
SGI Altix ICE 8200EX (Intel Xeon X5570, 2.93 GHz, DDR3-1066)

SPECompMpeak2001 = --

SPECompMbase2001 = 41514

SPEC license #:HPG0014 | Tested by: SGI | Test site: SGI | Test date: Mar-2009 | Hardware Avail: Mar-2009 | Software Avail: Jan-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	87.0	68995		
312.swim_m	6000	178	33637		
314.mgrid_m	7300	230	31776		
316.applu_m	4000	146	27451		
318.galgel_m	5100	129	39551		
320.equake_m	2600	56.5	46033		
324.apsi_m	3400	90.7	37492		
326.gafort_m	8700	196	44359		
328.fma3d_m	4600	153	30057		
330.art_m	6400	54.0	118499		
332.ammp_m	7000	242	28906		



Hardware

CPU:	Intel Xeon X5570
CPU MHz:	2934
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip (HT on)
CPU(s) orderable:	1-2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	48 GB (12*4GB DDR3-1066 CL7 RDIMMs)
Disk Subsystem:	7 TB RAID 5 48 x 147 GB SAS (Seagate Cheetah 15000 rpm)
Other Hardware:	None

Software

OpenMP Threads:	16
Parallel:	OpenMP
Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2 Kernel 2.6.16.60-0.30-smp
Compiler:	Intel C/C++ Compiler 11.0.074 Intel Fortran Compiler 11.0.074
File System:	NFSv3 IPoIB
System State:	Multi-user, run level 3

Notes/Tuning Information

```
Portability Flags:
    318.galgel_m: -FI -132
Extra Flags:
    330.art_m: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

Baseline optimization flags:
    COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi_alias (ONESTEP)
    FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp (ONESTEP)
Software Environment:
    setenv KMP_AFFINITY disabled
    setenv KMP_STACKSIZE 31M
    setenv KMP_SCHEDULE static,balanced
    setenv KMP_LIBRARY throughput
    setenv KMP_BLOCKTIME infinite
    setenv OMP_DYNAMIC FALSE
    setenv OMP_NUM_THREADS 16
    limit stacksize unlimited

BIOS settings:
  AMI BIOS version 8.15
  Hyper-Threading Technology enabled (default)
  Intel Turbo Boost Technology enabled (default)
```

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Notes/Tuning Information (Continued)

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    Intel Turbo Boost Technology activated in the OS via
      /etc/init.d/acpid start
      /etc/init.d/powersaved start
      powersave -f
For a description of SGI's compiler flags, portability flags,
and system parameters used to generate this result, please
refer to the SGI-20090327-Linux-Intel11.0-intel64.html file in the
flags directory.
```