



OMPL2001 Result

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SGI

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

SPECompLpeak2001 = --

SPECompLbase2001 = 218255

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	478	307709		
313.swim_l	12500	1496	133649		
315.mgrid_l	13500	1242	173872		
317.applu_l	13500	2212	97639		
321.equake_l	13000	959	216857		
325.apsi_l	10500	767	218931		
327.gafort_l	11000	695	253136		
329.fma3d_l	23500	2021	186022		
331.art_l	25000	556	719972		

Hardware		Software	
CPU:	Intel Xeon X5570	OpenMP Threads:	16
CPU MHz:	2934	Parallel:	OpenMP
FPU:	Integrated	Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2 Kernel 2.6.16.60-0.30-smp
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip (HT on)	Compiler:	Intel C/C++ Compiler 11.0.074 Intel Fortran Compiler 11.0.074
CPU(s) orderable:	1-2 chips	File System:	NFSv3 IPoIB
Primary Cache:	32 KB I + 32 KB D on chip per core	System State:	Multi-user, run level 3
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		

Notes/Tuning Information

Extra Flags:

331.art_m: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

Baseline optimization flags:

```
COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi_alias
           -mcmmodel=medium -i-dynamic (ONESTEP)
FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp
           -mcmmodel=medium -i-dynamic (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)
Intel Turbo Boost Technology activated in the OS via
/etc/init.d/acpid start
/etc/init.d/powersaved start
```



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Notes/Tuning Information (Continued)

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.