



# OMPL2001 Result

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## SGI

SGI Altix ICE 8200EX (Intel Xeon X5570, 2.93 GHz, DDR3-1333)

SPECompLpeak2001 = --

SPECompLbase2001 = 233283

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	
311.wupwise_l	9200	460	320279			
313.swim_l	12500	1304	153391			
315.mgrid_l	13500	1112	194328			
317.applu_l	13500	1866	115767			
321.equake_l	13000	861	241646			
325.apsi_l	10500	737	227895			
327.gafort_l	11000	692	254259			
329.fma3d_l	23500	2041	184202			
331.art_l	25000	557	717826			

### 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: 24 GB (6\*4GB DDR3-1333 CL9 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

### Extra Flags:

331.art\_m: -DINTS\_PER\_CACHELINE=16 -DDBLS\_PER\_CACHELINE=8

### Baseline optimization flags:

COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi\_alias  
-mcmodel=medium -i-dynamic (ONESTEP)  
FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp  
-mcmodel=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.