



# OMPL2001 Result

Copyright 1999-2008, Standard Performance Evaluation Corporation

Intel Corporation  
Endeavor Node (Supermicro X8DTN+)

SPECompLpeak2001 = --  
SPECompLbase2001 = 205462

SPEC license #HPG0013 Tested by: Intel Corporation Test site: -- Test date: Mar-2009 Hardware Avail: Mar-2009 Software Avail: Jun-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	464	317175		
313.swim_l	12500	1401	142716		
315.mgrid_l	13500	1408	153443		
317.applu_l	13500	1949	110815		
321.equake_l	13000	916	227180		
325.apsi_l	10500	845	198767		
327.gafort_l	11000	881	199794		
329.fma3d_l	23500	2613	143878		
331.art_l	25000	612	653084		

Hardware		Software	
CPU:	Intel Xeon X5560	OpenMP Threads:	8
CPU MHz:	2800	Parallel:	OpenMP
FPU:	Integrated	Operating System:	Red Hat EL 5.2, kernel 2.6.18-53
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 1 thread/core	Compiler:	Intel C/C++ Compiler 11.1 for Linux Intel FORTRAN Compiler 11.1 for Linux GNU C Compiler 4.1.2 20071124 (Red Hat 4.1.2-42)
CPU(s) orderable:	1,2	File System:	Linux ext3
Primary Cache:	32KB(I)+32KB(D)/core on chip	System State:	Default
Secondary Cache:	256KB/core (I+D) on chip		
L3 Cache:	8192KB (I+D) on chip		
Other Cache:	N/A		
Memory:	<small>16 GB (RDIMM 6x2-GB, 6x1-GB 1066-MHz), 1x2-GB and 1x1-GB RDIMM on each memory channel, 5-GB RDIMM is closer to the CPU)</small>		
Disk Subsystem:	Seagate 500 GB ST3500320NS		
Other Hardware:	--		

## Notes/Tuning Information

### BIOS settings notes:

Intel Hyper-Threading Technology (SMT): Disabled (default is Enabled)  
Intel Turbo Boost Technology (Turbo) : Enabled (default is Enabled)

### Baseline optimization flags:

COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi\_alias -mcmmodel=medium -shared-intel  
FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -mcmmodel=medium -shared-intel

export KMP\_AFFINITY=compact,0  
export KMP\_LIBRARY=turnaround  
export KMP\_STACKSIZE=31M  
export KMP\_BLOCKTIME=infinite  
export OMP\_DYNAMIC=FALSE  
ONESTEP=yes  
ulimit -s 64000

### Portability Flags:

331.art\_l: -DINTS\_PER\_CACHELINE=32 -DDBLS\_PER\_CACHELINE=16  
all: -gcc-name=/usr/bin/gcc

For compiler/openmp flags description please refer:

Intel-ic11.1-intel64-linux-flags-file.html in flags directory.