



# OMPL2001 Result

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Intel Corporation  
Intel Server System SR1600URHS

SPECompLpeak2001 = --  
SPECompLbase2001 = 235061

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	431	341691		
313.swim_l	12500	1295	154482		
315.mgrid_l	13500	1174	184031		
317.applu_l	13500	1856	116393		
321.equake_l	13000	850	244717		
325.apsi_l	10500	731	229856		
327.gafort_l	11000	673	261589		
329.fma3d_l	23500	2032	185000		
331.art_l	25000	562	711844		

### Hardware

CPU: Intel Xeon X5570  
 CPU MHz: 2930  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core  
 CPU(s) orderable: 1,2  
 Primary Cache: 32KB(I)+32KB(D)/core on chip  
 Secondary Cache: 256KB/core (I+D) on chip  
 L3 Cache: 8192KB (I+D) on chip  
 Other Cache: N/A  
 Memory: 6x4GB RDIMM DDR3-1333  
 Disk Subsystem: SATA WDC-WD1500AHFD  
 Other Hardware: --

### Software

OpenMP Threads: 16  
 Parallel: OpenMP  
 Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP2, Kernel 2.6.16.60  
 Compiler: Intel C/C++ Compiler 11.1 for Linux  
 Intel FORTRAN Compiler 11.1 for Linux  
 GNU C Compiler 4.1.2 20070115 (SUSE Linux)  
 File System: Linux ext3  
 System State: Default

## Notes/Tuning Information

### BIOS settings notes:

Intel Hyper-Threading Technology (SMT): Enabled (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.