



OMPL2001 Result

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Intel Corporation
Intel Server System SR1600URHS

SPECompLpeak2001 = --
SPECompLbase2001 = 221264

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	436	337379		
313.swim_l	12500	1258	159044		
315.mgrid_l	13500	1256	171929		
317.applu_l	13500	1842	117244		
321.equake_l	13000	837	248472		
325.apsi_l	10500	793	211831		
327.gafort_l	11000	824	213546		
329.fma3d_l	23500	2467	152415		
331.art_l	25000	583	686010		

Hardware		Software	
CPU:	Intel Xeon X5570	OpenMP Threads:	8
CPU MHz:	2930	Parallel:	OpenMP
FPU:	Integrated	Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60
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 20070115 (SUSE Linux)
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:	6x4GB RDIMM DDR3-1333		
Disk Subsystem:	SATA WDC-WD1500AHFD		
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.