



OMPL2001 Result

Copyright 1999-2008, Standard Performance Evaluation Corporation

Cisco Systems
Cisco B200-M1

SPECompLpeak2001 = --
SPECompLbase2001 = 234996

SPEC license #HPG9019 Tested by: Cisco Systems Test site: -- Test date: Mar-2009 Hardware AvailMar-2009 Software AvailMar-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	435	338724		
313.swim_l	12500	1304	153382		
315.mgrid_l	13500	1171	184509		
317.applu_l	13500	1869	115563		
321.equake_l	13000	857	242748		
325.apsi_l	10500	738	227564		
327.gafort_l	11000	666	264424		
329.fma3d_l	23500	1999	188048		
331.art_l	25000	557	718232		

Hardware		Software	
CPU:	Intel(R) Xeon 5570	OpenMP Threads:	16
CPU MHz:	2930	Parallel:	OpenMP
FPU:	Integrated	Operating System:	Red Hat EL 5.3, Linux Kernel 2.6.18-128.el5 SMP x86_64
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 2 threads/core	Compiler:	Intel C/C++ Compiler 11.0 for Linux (11.0.081 build) Intel FORTRAN Compiler 11.0 for Linux (11.0.081 build) GNU C Compiler 4.1.2
CPU(s) orderable:	1,2 chips	File System:	Linux ext2
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:	SEAGATE ST9733402SS 73GB, 15K RPM SAS Drive		
Other Hardware:			

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
OPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -mcmmodel=medium -shared-intel
```

Additional flags for large:

```
export KMP_AFFINITY=compact,0
export KMP_LIBRARY=turnaroud
export KMP_STACKSIZE=31M
export KMP_BLOCKTIME=infinite
export OMP_DYNAMIC=FALSE
ONESTEP=yes
ulimit -s 64000
```

Extra 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:

Cisco-ic11.0-intel64-linux-flags-file.html in flags directory.