



OMPM2001 Result

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Cisco Systems
Cisco B200-M1

SPECompMpeak2001 = --

SPECompMbase2001 = 43593

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Peak Runtime | Peak Ratio | |
|------------------|----------------|--------------|------------|--------------|------------|--|
| 310.wupwise_m | 6000 | 80.6 | 74408 | | | |
| 312.swim_m | 6000 | 161 | 37354 | | | |
| 314.mgrid_m | 7300 | 212 | 34387 | | | |
| 316.applu_m | 4000 | 139 | 28775 | | | |
| 318.galgel_m | 5100 | 121 | 42151 | | | |
| 320.earthquake_m | 2600 | 54.9 | 47335 | | | |
| 324.apsi_m | 3400 | 89.5 | 37999 | | | |
| 326.gafort_m | 8700 | 170 | 51319 | | | |
| 328.fma3d_m | 4600 | 157 | 29305 | | | |
| 330.art_m | 6400 | 54.8 | 116820 | | | |
| 332.ammmp_m | 7000 | 237 | 29495 | | | |

Hardware

CPU: Intel(R) Xeon 5570
 CPU MHz: 2930
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chips
 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: SEAGATE ST9733402SS 73GB, 15K RPM SAS Drive
 Other Hardware:

Software

OpenMP Threads: 16
 Parallel: OpenMP
 Operating System: Red Hat EL 5.3, Linux Kernel 2.6.18-128.el5 SMP x86_64
 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
 File System: Linux ext2
 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
 FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp
 OPTIMIZE = -O3 -xSSE4.2 -ipo -openmp

Additional flags for medium:

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:

318.galgel_m: -FI -132

Extra Flags:

330.art_m: -DINTS_PER_CACHELINE=32 -DDBLS_PER_CACHELINE=16
 all: -gcc-name=/usr/bin/gcc



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Notes/Tuning Information (Continued)

For compiler/openmp flags description please refer:
Cisco-ic11.0-intel64-linux-flags-file.html in flags directory.