



OMPM2001 Result

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Cisco
C460 M2

SPECompMpeak2001 = --
SPECompMbase2001 = 115176

SPEC license #HPG9019 Tested by: Cisco Test site: -- Test date: Mar-2011 Hardware AvailApr-2011 Software AvailMar-2011

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	28.2	212984			
312.swim_m	6000	57.9	103646			
314.mgrid_m	7300	67.3	108437			
316.applu_m	4000	18.9	211859			
318.galgel_m	5100	90.4	56446			
320.quake_m	2600	29.9	86839			
324.apsi_m	3400	28.5	119328			
326.gafort_m	8700	75.7	114973			
328.fma3d_m	4600	63.3	72666			
330.art_m	6400	24.6	260118			
332.ammp_m	7000	95.4	73394			

Hardware

CPU: Intel Xeon CPU E7-4870
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 40 cores, 4 chips, 10 cores/chip, 2 thread/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: 30720KB (I+D) on chip
 Other Cache: N/A
 Memory: 1024 GB (RDIMM 64x16-GB 1066 MHz)
 Disk Subsystem: LSI MRSASRoMB-8i (scsi)
 Other Hardware:

Software

OpenMP Threads: 80
 Parallel: OpenMP
 Operating System: Red Hat Enterprise Linux Server release 5.5, kernel 2.6.18-194.el5 x86_64
 Compiler: Intel C/C++ Compiler 12.0.2.137 for Linux
 Intel FORTRAN Compiler 12.0.2.137 for Linux
 GNU C Compiler 4.1.2
 File System: Linux ext3
 System State: Default

Notes/Tuning Information

BIOS settings notes:

Intel Hyper-Threading Technology (SMT): Enabled
 Intel Turbo Boost Technology (Turbo) : Enabled (Max 2.8 GHz)

Extra Flags:

318.galgel_m: -FI -132
 330.art_m: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8
 all: -gcc-name=/usr/bin/gcc

General Notes and Enviroment variables

export KMP_LIBRARY=turnaround
 export KMP_STACKSIZE=31M
 export KMP_BLOCKTIME=infinite
 export OMP_DYNAMIC=FALSE
 ONESTEP=yes
 ulimit -s 64000

For compiler/openmp flags description please refer:
 Intel-ic12.0-linux64-revB.html



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Notes/Tuning Information (Continued)

Base optimization flags and environment variables:

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Medium:

```
OPTIMIZE = -O3 -xSSE4.2 -ipo -openmp
COPTIMIZE = -ansi-alias
export KMP_AFFINITY=compact,1
```