OMPM2001 Result

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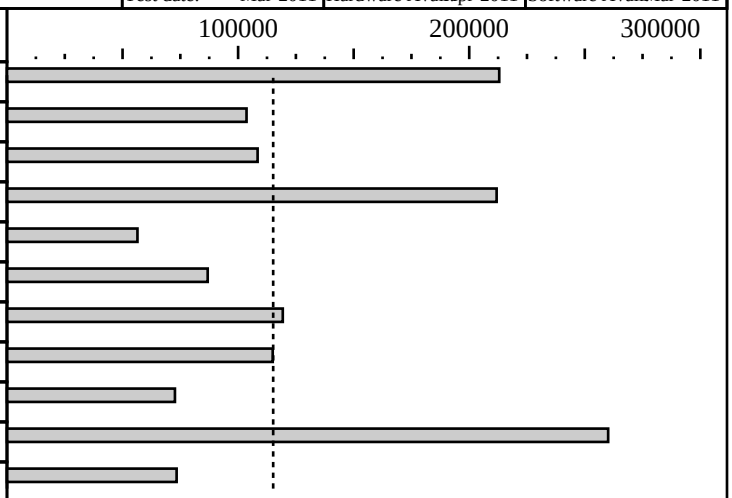
Cisco
C460 M2

SPECompMpeak2001 = --

SPECompMbase2001 = 115176

SPEC license #HPG9019 | Tested by: Cisco | Test site: -- | Test date: Mar-2011 | Hardware Avail: Apr-2011 | Software Avail: Mar-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.equake_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

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================================================================================
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
```

Notes/Tuning Information (Continued)

Base optimization flags and enviroment variables:

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