



OMPL2001 Result

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Cisco
C460 M2

SPECompLpeak2001 = --

SPECompLbase2001 = 727635

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
311.wupwise_l	9200	149	990418		
313.swim_l	12500	475	421416		
315.mgrid_l	13500	382	565944		
317.applu_l	13500	376	574931		
321.equake_l	13000	372	559186		
325.apsi_l	10500	226	744997		
327.gafort_l	11000	256	688328		
329.fma3d_l	23500	593	634455		
331.art_l	25000	173	2314185		

Hardware

CPU: Intel Xeon processor 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:

331.art_l: -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

Base optimization flags and enviroment variables:

Large:
 OPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -mmodel=medium -shared-intel



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Notes/Tuning Information (Continued)

```
COPTIMIZE = -ansi-alias  
export KMP_AFFINITY=compact,1
```