



# OMPL2001 Result

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## Cisco B230 M2

SPECompLpeak2001 = --  
SPECompLbase2001 = 378522

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	284	518612		
313.swim_l	12500	941	212638		
315.mgrid_l	13500	740	291722		
317.applu_l	13500	1132	190791		
321.equake_l	13000	611	340544		
325.apsi_l	10500	395	425143		
327.gafort_l	11000	435	404784		
329.fma3d_l	23500	1084	346986		
331.art_l	25000	313	1278108		

Hardware		Software	
CPU:	Intel Xeon Processor E7-2870	OpenMP Threads:	40
CPU MHz:	2400	Parallel:	OpenMP
FPU:	Integrated	Operating System:	SUSE Linux Enterprise Server 11.1, kernel 2.6.32.12-0.7-default x86_64
CPU(s) enabled:	20 cores, 2 chips, 10 cores/chip, 2 thread/core	Compiler:	Intel C/C++ Compiler 12.0.2.137 for Linux Intel FORTRAN Compiler 12.0.2.137 for Linux GNU C Compiler 4.3.4
CPU(s) orderable:	1,2	File System:	Linux ext3
Primary Cache:	32KB(I)+32KB(D)/core on chip	System State:	Default
Secondary Cache:	256KB/core (I+D) on chip		
L3 Cache:	30720KB (I+D) on chip		
Other Cache:	N/A		
Memory:	128 GB (RDIMM 32x4-GB 1333 MHz)		
Disk Subsystem:	LSI MRSASRoMB-8i (scsi)		
Other Hardware:			

## 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
```