



# OMPM2001 Result

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Intel Corporation  
Endeavor Node (Supermicro X8DTN+)

SPECompMpeak2001 = --  
SPECompMbase2001 = 39036

SPEC license #HPG0013 | Tested by: Intel Corporation | Test site: -- | Test date: Mar-2009 | Hardware Avail: Mar-2009 | Software Avail: Jun-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	83.8	71610			
312.swim_m	6000	176	34096			
314.mgrid_m	7300	241	30314			
316.applu_m	4000	145	27506			
318.galgel_m	5100	123	41508			
320.earthquake_m	2600	53.5	48595			
324.apsi_m	3400	96.1	35392			
326.gafort_m	8700	229	37982			
328.fma3d_m	4600	194	23729			
330.art_m	6400	58.0	110268			
332.ammp_m	7000	315	22205			

### Hardware

CPU: Intel Xeon X5560  
 CPU MHz: 2800  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 1 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: 8192KB (I+D) on chip  
 Other Cache: N/A  
 Memory: 16 GB (8DIMM 6x2-GB, 6x1-GB 1995-MHz, 1x2-GB and 1x1-GB RDIMM on each memory channel, 2-GB RDIMM is closer to the CPU)  
 Disk Subsystem: Seagate 500 GB ST3500320NS  
 Other Hardware: --

### Software

OpenMP Threads: 8  
 Parallel: OpenMP  
 Operating System: Red Hat EL 5.2, kernel 2.6.18-53  
 Compiler: Intel C/C++ Compiler 11.1 for Linux  
 Intel FORTRAN Compiler 11.1 for Linux  
 GNU C Compiler 4.1.2 20071124 (Red Hat 4.1.2-42)  
 File System: Linux ext3  
 System State: Default

## Notes/Tuning Information

### BIOS settings notes:

Intel Hyper-Threading Technology (SMT): Disabled (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
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
```

For compiler/openmp flags description please refer:  
 Intel-ic11.1-intel64-linux-flags-file.html in flags directory.



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