



# OMPM2001 Result

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Supermicro  
Supermicro X7DW3

SPECompMpeak2001 = --  
SPECompMbase2001 = 14381

SPEC license #HPG0017 | Tested by: Advanced Micro Devices | Test site: Austin, TX | Test date: Jun-2008 | Hardware Avail: Apr-2008 | Software Avail: Nov-2007

| Benchmark     | Reference Time | Base Runtime | Base Ratio | Peak Runtime | Peak Ratio |  |
|---------------|----------------|--------------|------------|--------------|------------|--|
| 310.wupwise_m | 6000           | 352          | 17030      |              |            |  |
| 312.swim_m    | 6000           | 655          | 9155       |              |            |  |
| 314.mgrid_m   | 7300           | 705          | 10360      |              |            |  |
| 316.applu_m   | 4000           | 376          | 10634      |              |            |  |
| 318.galgel_m  | 5100           | 334          | 15261      |              |            |  |
| 320.quake_m   | 2600           | 228          | 11421      |              |            |  |
| 324.apsi_m    | 3400           | 169          | 20124      |              |            |  |
| 326.gafort_m  | 8700           | 500          | 17391      |              |            |  |
| 328.fma3d_m   | 4600           | 355          | 12942      |              |            |  |
| 330.art_m     | 6400           | 224          | 28613      |              |            |  |
| 332.ammp_m    | 7000           | 499          | 14024      |              |            |  |

### Hardware

CPU: Quad-Core Intel(R) Xeon(R) Processor L5420 (1333MHz FSB)  
CPU MHz: 2500  
FPU: Integrated  
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
CPU(s) orderable: 1,2 chips  
Primary Cache: 32 KB I + 32 KB D on chip per core  
Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x2GB PC2-5400 FBDIMM (DDR2-667,CL5,2 rank)  
Disk Subsystem: 250GB 7200 RPM SATA  
Other Hardware:

### Software

OpenMP Threads: 8  
Parallel: OpenMP  
Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP1 2.6.16.46-0.12-smp  
Compiler: Intel FORTRAN Compiler 10.1.008 for Linux (Build 20070913)  
Intel C++ Compiler 10.1.008 for Linux (Build 20070913)  
File System: ext3  
System State: Default

## Notes/Tuning Information

### Baseline optimization flags:

```
COPTIMIZE = -O2 -xT -ipo -openmp -ansi_alias -static
FOPTIMIZE = -O2 -xT -ipo -openmp -static
ONESTEP=yes
```

### Base and Peak User Environment (bash):

```
export KMP_AFFINITY=compact,0
export KMP_LIBRARY=turnaround
export KMP_STACKSIZE=31M
export OMP_DYNAMIC=FALSE
export OMP_NUM_THREADS=8
ulimit -s unlimited
```

### BIOS Version: 6.00

default "optimized" bios settings used

### Alternate Sources (base):

314.mgrid\_m: intel

### 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
```



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## Notes/Tuning Information (Continued)

Installed GNU C Compiler version was 4.1.2  
(default for SUSE Linux Enterprise Server 10 (x86\_64) SP1)

For flag descriptions, see file AMD-ic10.1-intel64-linux-flags-file-20080506.html