



# OMPM2001 Result

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## Supermicro Supermicro X7DWN+

SPECompMpeak2001 = --  
SPECompMbase2001 = 17187

SPEC license #PG0013A | Tested by: Intel Corporation | Test site: Dupont, WA | Test date: Nov-2007 | Hardware Avail: Nov-2007 | Software Avail: Nov-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	295	20343		
312.swim_m	6000	546	10980		
314.mgrid_m	7300	588	12408		
316.applu_m	4000	310	12886		
318.galgel_m	5100	279	18252		
320.earthquake_m	2600	189	13721		
324.apsi_m	3400	141	24159		
326.gafort_m	8700	422	20603		
328.fma3d_m	4600	291	15830		
330.art_m	6400	188	34080		
332.ammp_m	7000	435	16092		

### Hardware

CPU: Quad-Core Intel(R) Xeon(R) Processor E5472  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32KB(I)+32KB(D)/core on chip  
 Secondary Cache: 6144KB/two-cores (I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x4GB PC2-6400 (DDR2-800,CL5,2 rank,8 bank)  
 Disk Subsystem:  
 Other Hardware:

### Software

OpenMP Threads: 8  
 Parallel: OpenMP  
 Operating System: SUSE LINUX 10.1 (X86-64) (Linux 2.6.16.13-4-smp)  
 Compiler: Intel FORTRAN Compiler 10.1 for Linux (Build 20070913)  
 Intel C/C++ Compiler 10.1 for Linux (Build 20070913)  
 GNU C Compiler (4.1.0 (SUSE Linux))  
 File System: reiserfs  
 System State: Default

## Notes/Tuning Information

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Baseline optimization flags:
COPTIMIZE = -O2 -xT -ipo -openmp -ansi_alias
FOPTIMIZE = -O2 -xT -ipo -openmp
export KMP_AFFINITY=compact,0
export KMP_LIBRARY=turnaround
export KMP_STACKSIZE=31M
export OMP_DYNAMIC=FALSE
ONESTEP=yes
ulimit -s 64000
BIOS Version: 6.00
  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
Flags file: Intel-ic10.1-intel64-linux-flags-file-20071211.html

```