



# OMPM2001 Result

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## Colfax Intel S5000PAL Server Board

SPECompMpeak2001 = --  
SPECompMbase2001 = 11822

SPEC license #HPG0017 | Tested by: Advanced Micro Devices | Test site: -- | Test date: Mar-2007 | Hardware AvailMar-2007 | Software AvailMar-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	443	13543			
312.swim_m	6000	833	7200			
314.mgrid_m	7300	1103	6616			
316.applu_m	4000	447	8944			
318.galgel_m	5100	410	12428			
320.earthquake_m	2600	248	10503			
324.apsi_m	3400	187	18151			
326.gafort_m	8700	649	13400			
328.fma3d_m	4600	447	10287			
330.art_m	6400	243	26317			
332.ammp_m	7000	551	12711			

### Hardware

CPU: Quad-Core Intel(R) Xeon(R) Processor X5355  
 CPU MHz: 2660  
 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: 8192KB/chip (I+D) on chip, 4 MB shared / 2 cores  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 8x2GB PC2-5300 FBDIMM (CL5)  
 Disk Subsystem: Hitachi Deskstar 80GB 7200 rpm SATA  
 Other Hardware:

### Software

OpenMP Threads: 8  
 Parallel: OpenMP  
 Operating System: SLES 10 (2.6.16.21-0.8-smp)  
 Compiler: Intel(R) C Compiler for Intel(R) EM64T-based applications, Version 9.1 Build 20070109  
 Intel(R) Fortran Compiler for Intel(R) EM64T-based applications, Version 9.1 Build 20070109  
 GNU C Compiler (4.1.0)  
 File System: Linux ext3  
 System State: Default

## Notes/Tuning Information

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  
 "powersave -f" used to set speed to maximum  
 BIOS version S5000.86B.06.00.0074  
 BIOS set to "Optimized Defaults" (F9)  
 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 flag definitions see flags file AMD-20070409-Linux-Intel9.1-Intel64.txt