



OMPM2001 Result

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Colfax Intel S5000PAL Server Board

SPECompMpeak2001 = --
SPECompMbase2001 = 11447

SPEC license #HPG0017 | Tested by: Advanced Micro Devices | Test site: Austin TX | Test date: Mar-2007 | Hardware Avail: Mar-2007 | Software Avail: Aug-2007

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	448	13405			
312.swim_m	6000	844	7107			
314.mgrid_m	7300	1115	6549			
316.applu_m	4000	454	8808			
318.galgel_m	5100	422	12075			
320.earthquake_m	2600	250	10390			
324.apsi_m	3400	204	16633			
326.gafort_m	8700	665	13074			
328.fma3d_m	4600	479	9595			
330.art_m	6400	245	26099			
332.ammp_m	7000	594	11778			

Hardware

CPU: Dual-Core Intel(R) Xeon(R) Processor 5345
 CPU MHz: 2330
 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: 8x1GB 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:

```
CC = icc
FC = ifort
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 unlimited
```

"powersave -f" used to set speed to maximum

BIOS version S5000.86B.06.00.0074

"Optimized Defaults" bios settings used (F9 in bios)

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