



OMPM2001 Result

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Supermicro
Supermicro X7DWN+

SPECompMpeak2001 = --
SPECompMbase2001 = 14789

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	349	17185			
312.swim_m	6000	654	9170			
314.mgrid_m	7300	701	10408			
316.applu_m	4000	370	10813			
318.galgel_m	5100	325	15681			
320.earthquake_m	2600	226	11503			
324.apsi_m	3400	157	21666			
326.gafort_m	8700	488	17832			
328.fma3d_m	4600	338	13602			
330.art_m	6400	223	28704			
332.ammp_m	7000	456	15344			

Hardware

CPU: Quad-Core Intel(R) Xeon(R) Processor E5440
 CPU MHz: 2833
 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 per core on chip
 Secondary Cache: 6144 KB I+D per two cores on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 16GB (8x2GB, PC2-6400 FBDIMM, CL5)
 Disk Subsystem: 250GB 7200 RPM SATA
 Other Hardware:

Software

OpenMP Threads: 8
 Parallel: OpenMP
 Operating System: SLES10 SP1 (X86-64) (Linux 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)
 GNU C Compiler (4.1.0 (SUSE Linux))
 File System: 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

export OMP_NUM_THREADS=8

ONESTEP=yes

ulimit -s 64000

default "optimized" bios settings used

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

Phoenix BIOS v6.00 Rev 1.0b. Default BIOS settings used.

For flag descriptions, see file AMD-ic10.1-intel64-linux-flags-file-20080409.html