OMPM2001 Result

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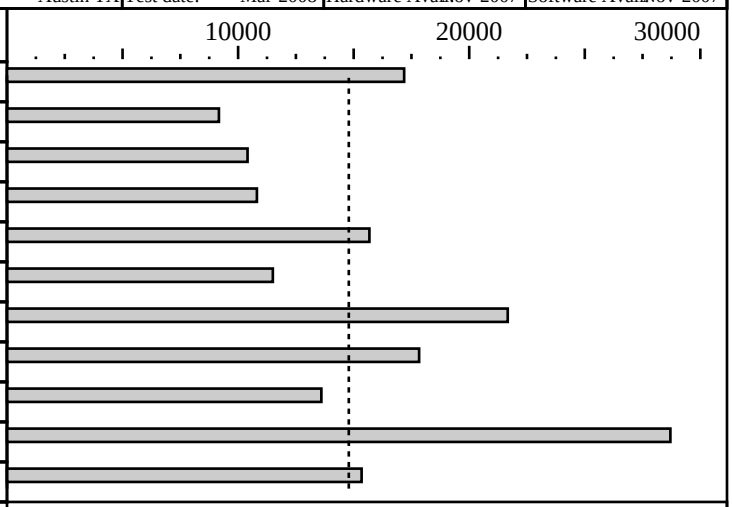
Supermicro
Supermicro X7DWN+

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.equake_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
```