OMPM2001 Result

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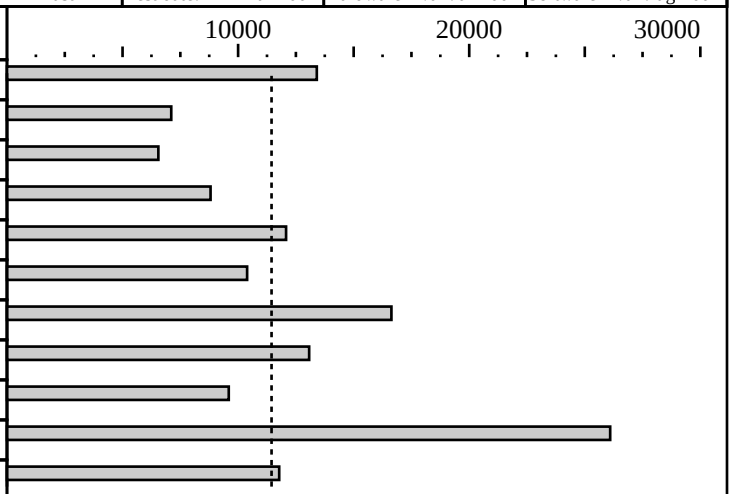
Colfax
Intel S5000PAL Server Board

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.equake_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
```