OMPM2001 Result

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Intel Corporation

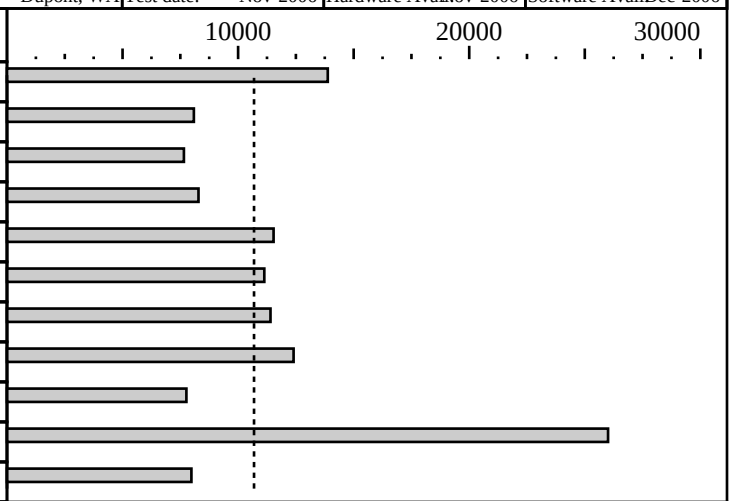
Intel(R) Server Board S5000XAL (Intel(R) Xeon(R) Processor 5160)

SPECompMpeak2001 = --

SPECompMbase2001 = 10689

SPEC license #:HPG0013	Tested by: Intel Corporation	Test site: Dupont, WA	Test date: Nov-2006	Hardware Avail:Nov-2006	Software Avail:Dec-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	432	13880		
312.swim_m	6000	742	8086		
314.mgrid_m	7300	954	7655		
316.applu_m	4000	483	8286		
318.galgel_m	5100	442	11535		
320.equake_m	2600	234	11133		
324.apsi_m	3400	298	11401		
326.gafort_m	8700	702	12401		
328.fma3d_m	4600	593	7762		
330.art_m	6400	246	26007		
332.ammp_m	7000	877	7979		



Hardware

CPU:	Dual-Core Intel(R) Xeon(R) Processor 5160
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32KB(I)+32KB(D)/core on chip
Secondary Cache:	4096KB/chip (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8x1GB FBDIMM-667MHz CL5
Disk Subsystem:	Samsung HM080JI 80GB 2.5in 5400RPM 8MB buffer SATA
Other Hardware:	

Software

OpenMP Threads:	4
Parallel:	OpenMP
Operating System:	Red Hat Enterprise Linux AS release 4 (Nahant Update 4)
Compiler:	Intel(R) C++ Compiler 9.1.045 for Intel(R) 64 Linux (Build 20061101) Intel(R) FORTRAN Compiler 9.1.040 for Intel(R) 64 Linux (Build 20061101) GNU C Compiler (3.4.6 20060404 (Red Hat 3.4.6-3))
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
BIOS version S5000.86B.05.00.0070.111720061421 11/17/2006
  Snoop Filter enabled on BIOS
  HiBW FSB option enabled on 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
GCC and binutils used for include/lib files and linking.
Flags Description in
    INTEL-20061120-Linux-Intel9.1-Intel64.txt
```