OMPM2001 Result

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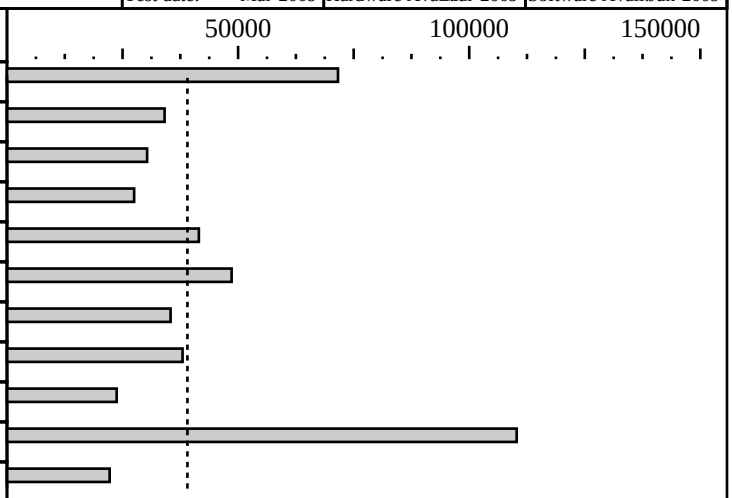
Intel Corporation
Endeavor Node (Supermicro X8DTN+)

SPECompMpeak2001 = --

SPECompMbase2001 = 39036

SPEC license #:HPG0013	Tested by: Intel Corporation	Test site: --	Test date: Mar-2009	Hardware Avail:Mar-2009	Software Avail:Jun-2009

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	83.8	71610		
312.swim_m	6000	176	34096		
314.mgrid_m	7300	241	30314		
316.applu_m	4000	145	27506		
318.galgel_m	5100	123	41508		
320.equake_m	2600	53.5	48595		
324.apsi_m	3400	96.1	35392		
326.gafort_m	8700	229	37982		
328.fma3d_m	4600	194	23729		
330.art_m	6400	58.0	110268		
332.ammp_m	7000	315	22205		



Hardware

CPU:	Intel Xeon X5560
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 1 thread/core
CPU(s) orderable:	1,2
Primary Cache:	32KB(I)+32KB(D)/core on chip
Secondary Cache:	256KB/core (I+D) on chip
L3 Cache:	8192KB (I+D) on chip
Other Cache:	N/A
Memory:	18 GB (RDIMM 6x2-GB, 6x1-GB 1066 MHz, 1x2-GB and 1x1-GB RDIMM on each memory channel, 2-GB RDIMM is closer to the CPU)
Disk Subsystem:	Seagate 500 GB ST3500320NS
Other Hardware:	--

Software

OpenMP Threads:	8
Parallel:	OpenMP
Operating System:	Red Hat EL 5.2, kernel 2.6.18-53
Compiler:	Intel C/C++ Compiler 11.1 for Linux Intel FORTRAN Compiler 11.1 for Linux GNU C Compiler 4.1.2 20071124 (Red Hat 4.1.2-42)
File System:	Linux ext3
System State:	Default

Notes/Tuning Information

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BIOS settings notes:
  Intel Hyper-Threading Technology (SMT): Disabled (default is Enabled)
  Intel Turbo Boost Technology (Turbo)  : Enabled (default is Enabled)

 Baseline optimization flags:
  COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi_alias
  FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp
 export KMP_AFFINITY=compact,0
 export KMP_LIBRARY=turnaround
 export KMP_STACKSIZE=31M
 export KMP_BLOCKTIME=infinite
 export OMP_DYNAMIC=FALSE
 ONESTEP=yes
 ulimit -s 64000
    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 compiler/openmp flags description please refer:
 Intel-ic11.1-intel64-linux-flags-file.html in flags directory.
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Notes/Tuning Information (Continued)