



OMPL2001 Result

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Intel Corporation
Endeavor Node (Supermicro X8DTN+)

SPECompLpeak2001 = --
SPECompLbase2001 = 198182

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
311.wupwise_l	9200	470	313488		
313.swim_l	12500	1406	142205		
315.mgrid_l	13500	1489	145035		
317.applu_l	13500	1968	109746		
321.equake_l	13000	922	225491		
325.apsi_l	10500	912	184158		
327.gafort_l	11000	922	190865		
329.fma3d_l	23500	2796	134500		
331.art_l	25000	642	623480		

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: 16 GB (8DIMM 6x2-GB, 6x1-GB 800-MHz, 1x2-GB and 1x1-GB RDIMM on each memory channel, 5-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

BIOS settings notes:

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

Baseline optimization flags:

COPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -ansi_alias -mcmmodel=medium -shared-intel
FOPTIMIZE = -O3 -xSSE4.2 -ipo -openmp -mcmmodel=medium -shared-intel

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:

331.art_l: -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.