



OMPM2001 Result

Copyright 1999-2008, Standard Performance Evaluation Corporation

Intel Corporation
Endeavor Node (Supermicro X8DTN+)

SPECompMpeak2001 = --
SPECompMbase2001 = 37629

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	85.2	70429			
312.swim_m	6000	176	34145			
314.mgrid_m	7300	254	28780			
316.applu_m	4000	147	27245			
318.galgel_m	5100	126	40426			
320.earthquake_m	2600	54.6	47645			
324.apsi_m	3400	102	33292			
326.gafort_m	8700	239	36349			
328.fma3d_m	4600	207	22180			
330.art_m	6400	60.4	105913			
332.ammp_m	7000	337	20743			

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 1995-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

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
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.



OMPM2001 Result

Copyright 1999-2008, Standard Performance Evaluation Corporation

Intel Corporation
Endeavor Node (Supermicro X8DTN+)

SPECompMpeak2001 = --
SPECompMbase2001 = 37629

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

Notes/Tuning Information (Continued)