OMPM2001 Result

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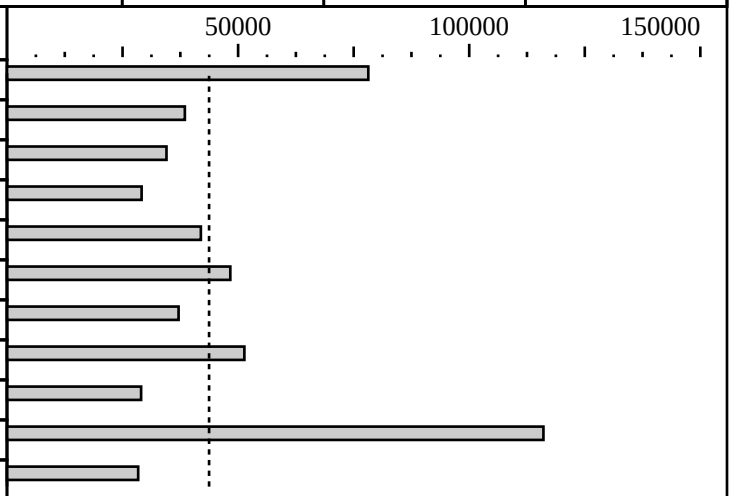
Intel Corporation
Intel Server System SR1600URHS

SPECompMpeak2001 = --

SPECompMbase2001 = 43720

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	76.8	78168		
312.swim_m	6000	156	38478		
314.mgrid_m	7300	212	34505		
316.applu_m	4000	137	29123		
318.galgel_m	5100	122	41942		
320.equake_m	2600	53.8	48312		
324.apsi_m	3400	91.6	37119		
326.gafort_m	8700	169	51355		
328.fma3d_m	4600	159	29014		
330.art_m	6400	55.1	116056		
332.ammp_m	7000	247	28381		



Hardware

CPU:	Intel Xeon X5570
CPU MHz:	2930
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 2 threads/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:	6x4GB RDIMM DDR3-1333
Disk Subsystem:	SATA WDC-WD1500AHFD
Other Hardware:	--

Software

OpenMP Threads:	16
Parallel:	OpenMP
Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP2, Kernel 2.6.16.60
Compiler:	Intel C/C++ Compiler 11.1 for Linux Intel FORTRAN Compiler 11.1 for Linux GNU C Compiler 4.1.2 20070115 (SUSE Linux)
File System:	Linux ext3
System State:	Default

Notes/Tuning Information

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BIOS settings notes:
  Intel Hyper-Threading Technology (SMT): Enabled (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)