OMPM2001 Result

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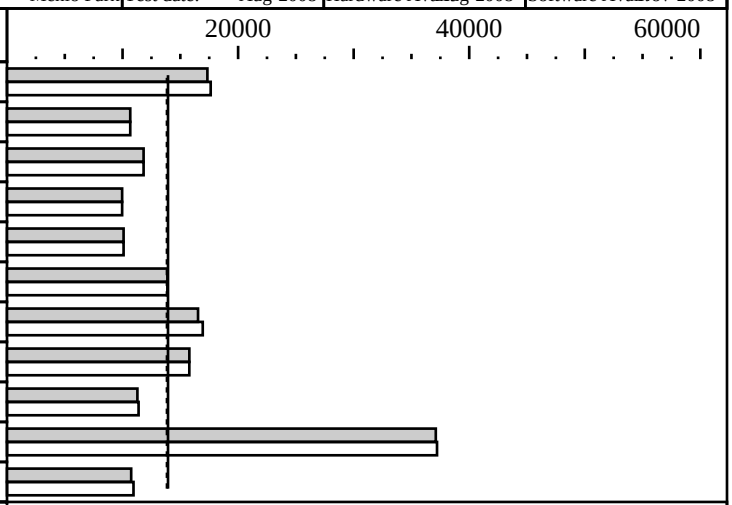
Sun Microsystems
Sun Fire X2250

SPECompMpeak2001 = 13934

SPECompMbase2001 = 13844

SPEC license #: HPG0010 | Tested by: Sun Microsystems | Test site: Menlo Park | Test date: Aug-2008 | Hardware Avail: Aug-2008 | Software Avail: Nov-2008

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	346	17342	340	17627
312.swim_m	6000	563	10666	563	10666
314.mgrid_m	7300	618	11821	618	11821
316.applu_m	4000	401	9963	401	9963
318.galgel_m	5100	505	10089	505	10089
320.equake_m	2600	187	13880	187	13880
324.apsi_m	3400	206	16532	201	16940
326.gafort_m	8700	551	15780	551	15778
328.fma3d_m	4600	408	11285	404	11387
330.art_m	6400	172	37107	172	37214
332.ammp_m	7000	651	10746	639	10947



Hardware

CPU:	Intel Xeon X5272
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 (order by number of chips)
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	6 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	32 GB (8*4GB Dual-rank PC2-6400 CL5-5-5 FB-DIMMs)
Disk Subsystem:	1 x 250 GB SATA 7200 RPM
Other Hardware:	None

Software

OpenMP Threads:	4
Parallel:	OpenMP and Automatic parallel
Operating System:	OpenSolaris 2008.05
Compiler:	Sun Studio Express 11/08
File System:	zfs
System State:	Multi-User

Notes/Tuning Information

```
Compiler Invocation:
  C   : cc
  F90 : f90
  F77 : f90

Base tuning:
  Fortran : -fast -xipo=2 -m64 -xprefetch_level=3 -xvector=simd -xopenmp
  C       : -fast -xipo=2 -m64 -xopenmp
  ONESTEP=yes

Peak tuning:
 ONESTEP=yes for all peak tests.

 310.wupwise_m   : -fast -xipo=2 -m64 -xprefetch_level=3 -xvector=simd -xautopar
                   -xreduction -xopenmp
 312.swim_m      :  basepeak=yes
 314.mgrid_m     : basepeak=yes
 316.applu_m     : basepeak=yes
 318.galgel_m    : basepeak=yes
 320.equake_m    : basepeak=yes
 324.apsi_m      : -fast -xipo=2 -Qoption f90comp -hoist_expensive,-hoist_trivial -m64
                   -xprefetch_level=3 -xvector -xopenmp -lmtmalloc
 326.gafort_m    : -fast -xipo=2 -m64 -xprefetch_level=3 -xvector=simd -xautopar -xreduction -xopenmp
```

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Notes/Tuning Information (Continued)

```
328.fma3d_m     : -fast -xipo=2 -m64 -xprefetch_level=3 -xvector=simd -xautopar -xreduction -xopenmp
330.art_m       : -fast -m64 -xipo=2 -xalias_level=std -xopenmp -lmtmalloc -lm
332.ammp_m      : -fast -Wu,-sched_first_pass=1 -xpagesize=2m  -xipo=2 -m64  -xalias_level=std
                  -xopenmp -lmopt -lm

Portablility flags:
  318.galgel_m      : -e -fixed

Extra art allowed flags:
  330.art_m         : -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

Base and Peak User Environment:
  export OMP_NUM_THREADS=4
  export SUNW_MP_PROCBIND=TRUE
  export SUNW_MP_THR_IDLE=SPIN
  export OMP_NESTED=FALSE
  export STACKSIZE=16384
  export OMP_DYNAMIC=TRUE
  ulimit -s unlimited

For a description of Sun Studio Express 11/08 Compiler flags, portability flags
and system parameters used to generate this result, please refer to
SUN-20080827-Studio-Solaris-X86_64.txt file in the flags directory.

Default BIOS settings used.
```