



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.quake_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

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

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

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.quake_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
```

Portability 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.