





# OMPM2001 Result

Copyright ©1999-2007, Standard Performance Evaluation Corporation

Sun Microsystems  
Sun Fire X4600

SPECompMpeak2001 = 20319

SPECompMbase2001 = 19708

SPEC license #HPG0010 | Tested by: Sun Microsystems, Santa Clara | Test site: Menlo Park | Test date: Jun-2006 | Hardware Avail:Jul-2006 | Software Avail:Jul-2006

## Notes/Tuning Information (Continued)

ONESTEP=yes for all peak tests.

```
310.wupwise_m      : basepeak=yes
312.swim_m         : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp
314.mgrid_m        : basepeak=yes
316.applu_m        : basepeak=yes
318.galgel_m       : -fast -xpagesize=2m -xipo=2 -goption iropt -xprefetch_level=3 -xvector=simd
                   : -xarch=amd64 -xopenmp -xlic_lib=sunperf +FDO
                   : RM_SOURCES=lapak.f90
320.equake_m       : -fast -xipo=2 -xalias_level=strong -xarch=amd64 -xopenmp
324.apsi_m         : basepeak=yes
326.gafort_m       : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd
                   : -xopenmp
328.fma3d_m        : -fast -xpagesize=2m -xipo=2 -xprefetch_level=3 -xarch=amd64 -xopenmp +FDO
330.art_m          : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xalias_level=std -xopenmp
                   : -lmtmalloc -lm
332.ammp_m         : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xalias_level=std -xopenmp -lmopt -lm
```

Portability flags:

```
318.galgel_m      : -e -fixed
330.art_m         : Extra Flag: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8
```

Base and Peak User Environment:

```
export OMP_NUM_THREADS=8
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
```

The following patches were applied to Sun Studio 11 compiler:

```
120759-07 : x86/x64
121016-03 : x86 C
121020-03 : x86 F90
121018-03 : x86 C++
```

Default BIOS settings used.

For a description of Sun Studio 11 Compiler flags, portability flags and system parameters used to generate this result, please refer to SUN-20051104-Studio-Solaris-opteron.txt file in the flags directory.