





# OMPM2001 Result

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Sun Microsystems  
Sun Fire X4100 M2

SPECompMpeak2001 = 13222

SPECompMbase2001 = 12763

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

## Notes/Tuning Information (Continued)

Peak tuning:

ONESTEP=yes for all peak tests.

```
310.wupwise_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -lmvec
312.swim_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -lmvec
314.mgrid_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -lmvec
316.applu_m : basepeak=yes
318.galgel_m : -fast -xpagesize=2m -xipo=2 -qoption iropt -xprefetch_level=3 -xvector=simd
               -xarch=amd64 -xopenmp -xlic_lib=sunperf +FDO
               RM_SOURCES=lapak.f90
320.equake_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -lmvec
324.apsi_m : basepeak=yes
326.gafort_m : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -lmvec
               : -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

Extra art Base Flags:

330.art\_m : Extra Flag: -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
```

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.

This result was measured on the Sun Fire X4100 M2. In addition, Sun has submitted the same result for the Sun Fire X4200 M2, which is electronically equivalent to the Sun Fire X4100 M2.

For a description of Sun Studio 11 Compiler flags, portability flags and system parameters used to generate this result, please refer to SUN-20061102-Studio-Solaris-opteron.txt file in the flags directory.