



OMPM2001 Result

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Sun Microsystems
Sun Fire X4200 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 -xalias_level=strong -xarch=amd64 -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
Sun Fire X4100 M2 and Sun Fire X4200 M2 are electronically equivalent.

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.