



OMPM2001 Result

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Sun Microsystems
Sun Blade X8420

SPECompMpeak2001 = 23224

SPECompMbase2001 = 22531

SPEC license #HPG0010 | Tested by: Sun Microsystems, Santa Clara | Test site: Menlo Park | Test date: Jan-2007 | Hardware Avail: Feb-2007 | Software Avail: Jul-2006

Notes/Tuning Information (Continued)

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 -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 -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 : -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++

```

For a description of Sun Studio 10 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.

Default BIOS settings used.