





# OMPM2001 Result

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Sun Microsystems  
Sun Fire V40z

SPECompMpeak2001 = 18680

SPECompMbase2001 = 17738

SPEC license #HPG0010 | Tested by: Sun Microsystems, Santa Clara | Test site: Menlo Park | Test date: Oct-2005 | Hardware Avail: Oct-2005 | Software Avail: Nov-2005

## Notes/Tuning Information (Continued)

MPSSHEAP=2m  
MPSSSTACK=2m  
LD\_PRELOAD=mpss.so.1

Peak tuning:  
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 -xipo=2 -goption iropt -xprefetch_level=3 -xvector=simd
              -xarch=amd64 -xopenmp -xlic_lib=sunperf +FDO +MPSS
              RM_SOURCES=lapak.f90
320.quake_m  : -fast -Xc -xipo=2 -xalias_level=strong -xarch=amd64 -xopenmp
324.apsi_m   : basepeak=yes
326.gafort_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd
              -xopenmp +MPSS
328.fma3d_m  : -fast -xipo=2 -xprefetch_level=3 -xarch=amd64 -xopenmp +FDO +MPSS
330.art_m    : -fast -Xc -xcrossfile -xarch=amd64 -xalias_level=std -xopenmp
              -lmtmalloc -lm +MPSS
332.ammp_m   : -fast -Xc -xipo=2 -xarch=amd64 -xalias_level=std -xopenmp -lmopt -lm
              +MPSS

```

Portability flags:

```

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

```

Alternate Source:

```

330.art_m    : Required srcalt purduel used for base and peak
312.swim_m   : Approved srcalt ompl.32 used for peak
320.quake_m  : Approved srcalt ompl.32 used for peak

```

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

```

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.

Default BIOS settings used.