





# OMPM2001 Result

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Sun Microsystems  
Sun Fire V40z

SPECompMpeak2001 = 13817

SPECompMbase2001 = 13195

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=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

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.