



OMPM2001 Result

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Sun Microsystems
Sun Fire V40z

SPECompMpeak2001 = 17230

SPECompMbase2001 = 16356

SPEC license #HPG0010 | Tested by: Sun Microsystems, Santa Clara | Test site: Menlo Park | Test date: Apr-2005 | Hardware AvailJun-2005 | Software AvailMar-2005

Notes/Tuning Information (Continued)

ENV_MPSSHEAP=2m
ENV_MPSSSTACK=2m
ENV_LD_PRELOAD=mpss.so.1

Peak tuning:
ONESTEP=yes for all peak tests.

310.wupwise_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp
312.swim_m : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp
314.mgrid_m : -fast -xipo=2 -xprefetch_level=3 -xarch=amd64 -xopenmp
316.applu_m : -fast -xipo=2 -xprefetch_level=3 -xarch=amd64
-Qoption iropt -Aujam:inner=g -xopenmp +MPSS
318.galgel_m : -fast -xipo=2 -qoption iropt -xprefetch_level=3 -xvector=simd
-xarch=amd64 -xopenmp -xlic_lib=sunperf +FDO +MPSS
RM_SOURCES=lapack.f90
320.quake_m : -fast -xipo=2 -xalias_level=strong -xarch=amd64 -xopenmp
324.apsi_m : -fast -xipo=2 -xprefetch_level=3 -xopenmp
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 -xcrossfile -xarch=amd64 -xalias_level=std -xopenmp
-lmtmalloc -lm +MPSS
332.ammp_m : -fast -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
310.wupwise_m : Approved srcalt ompl.32 used for peak
312.swim_m : Approved srcalt ompl.32 used for peak
314.mgrid_m : Approved srcalt ompl used for peak
320.quake_m : Approved srcalt ompl.32 used for peak
324.apsi_m : Approved srcalt ompl 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=32768
export OMP_DYNAMIC=TRUE
ulimit -s unlimited

Patch-01 includes the following patches for Sun Studio 10 compiler:
117831-01 C++
117835-01 Fortran 90
117837-01 C
117841-01 Fortran Libraries

For a description of Sun Studio 10 Compiler flags, portability flags and system parameters used to generate this result, please refer to SUN-20050330-Studio-Solaris-opteron.txt file in the flags directory.

Default BIOS settings used.



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