OMPM2001 Result

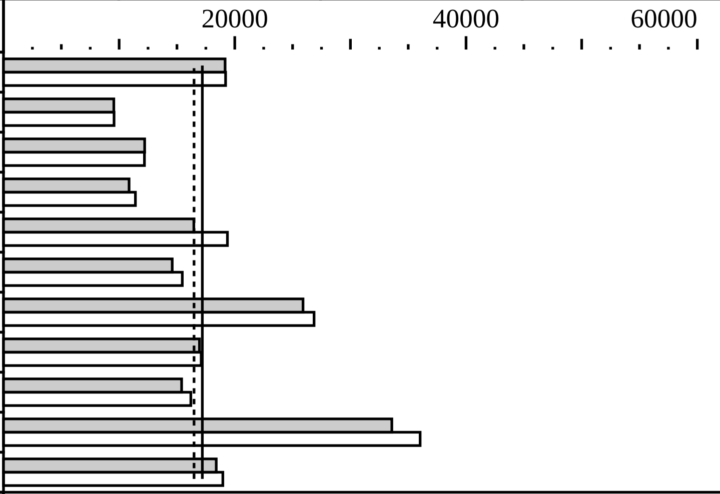
Sun Microsystems
Sun Fire X2250

SPECompMpeak2001 = 17195

SPECompMbase2001 = 16478

SPEC license #: HPG0010	Tested by: Sun Microsystems	Test site: Menlo Park	Test date: Apr-2009	Hardware Avail: Apr-2009	Software Avail: Nov-2008

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	313	19163	312	19206
312.swim_m	6000	629	9540	628	9560
314.mgrid_m	7300	598	12207	599	12188
316.applu_m	4000	368	10860	351	11407
318.galgel_m	5100	310	16460	263	19365
320.equake_m	2600	178	14590	168	15462
324.apsi_m	3400	131	25902	127	26857
326.gafort_m	8700	513	16946	509	17097
328.fma3d_m	4600	299	15404	284	16200
330.art_m	6400	191	33583	178	36029
332.ammp_m	7000	380	18397	369	18968



Hardware

CPU:	Intel Xeon X5482
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4GB Dual-rank PC2-6400 CL5-5-5 FB-DIMMs)
Disk Subsystem:	1 x 250 GB SATA 7200 RPM
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	OpenMP and Automatic parallel
Operating System:	OpenSolaris 2008.05
Compiler:	Sun Studio Express 11/08
File System:	zfs
System State:	Multi-User

Notes/Tuning Information

```
Compiler Invocation:
  C   : cc
  F90 : f90
  F77 : f90

Base tuning:
  Fortran :  -fast  -xautopar -xopenmp -xipo=2  -xvector=lib
             -m64 -aligncommon=16  -fns=no -lmtmalloc
  C       :  -fast -xopenmp -xautopar -xipo=2 -xvector=lib -xprefetch
             -xprefetch_level=3 -m64 -lmtmalloc
  ONESTEP=yes

Peak tuning:
 ONESTEP=yes for all peak tests.

 310.wupwise_m   : -fast -xautopar -xopenmp -xipo=2 -xvector=lib
                   -xprefetch -xprefetch_level=3 -m64 -lmtmalloc
 312.swim_m      : -fast -xmodel=medium -Qoption ube -fsimple=3
                   -xipo=2 -m64 -xvector=simd -xopenmp -lmvec
                    srcalt = ompl.32
 314.mgrid_m     : -fast -xopenmp -xautopar -xipo=2 -xvector=lib
                   -xprefetch -xprefetch_level=3 -m64 -lmtmalloc
 316.applu_m     : -fast -xopenmp -xautopar -xipo=2 -xvector=lib -xprefetch
```

Notes/Tuning Information (Continued)

```
                     -xprefetch_level=3 -m64 -xmodel=medium -lmtmalloc
                      srcalt = ompl
 318.galgel_m    : -O3 -xpagesize=2M -xipo=2 -xvector=simd -m64 -xopenmp
                   -xlic_lib=sunperf +FDO
                    RM_SOURCES=lapak.f90
 320.equake_m    : -fast -fns=no -xalias_level=layout -xdepend=no
                   -m64 -xopenmp -lmvec
                   srcalt = ompl.32
 324.apsi_m      : -fast -xipo=2 -m64 -xprefetch_level=3 -xvector
                   -xopenmp -lmtmalloc
                   srcalt = ompl.32
 326.gafort_m    : -fast -fstore  -aligncommon=8 -xpagesize=2M -m64
                   -xipo=2 -xvector=simd -xopenmp -lmvec
 328.fma3d_m     : -fast -xipo=2 -m64 -xvector=simd -xopenmp
                   srcalt = ompl.32
 330.art_m       : -fast -xipo=2 -m64 -xopenmp
 332.ammp_m      : -fast -xautopar -xipo=2 -xvector=simd -m64
                   -Wu,-fsimple=3 -xopenmp -xpagesize=2M

Portability flags:
  318.galgel_m   : -e -fixed

Extra art allowed flags:
  330.art_m      : -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

Base and Peak User Environment:
  export OMP_NUM_THREADS=16
  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 10 Compiler flags, portability flags
and system parameters used to generate this result, please refer to
SUN-20090504-Studio-Solaris-X86_64.txt file in the flags directory.

Default BIOS settings used.
```