OMPM2001 Result

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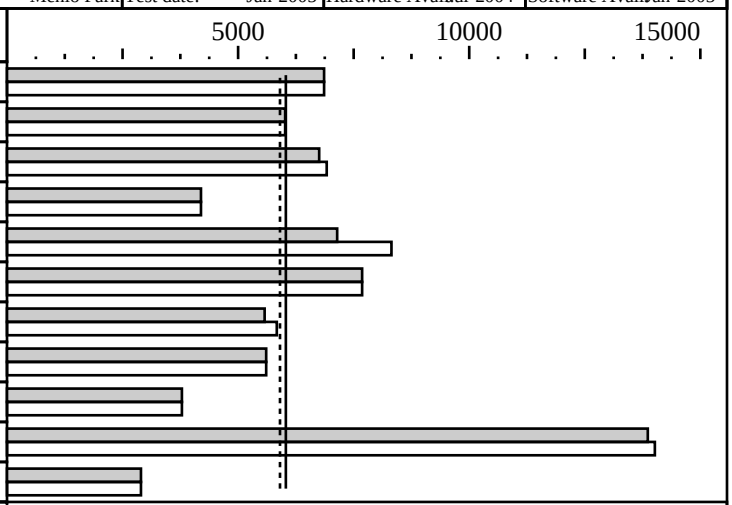
Sun Microsystems
Sun Fire V20z

SPECompMpeak2001 = 6033

SPECompMbase2001 = 5906

SPEC license #HPG0010	Tested by: Sun Microsystems, Santa Clara	Test site: Menlo Park	Test date: Jan-2005	Hardware Avail: Jul-2004	Software Avail: Jan-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	875	6860	875	6860
312.swim_m	6000	997	6018	997	6018
314.mgrid_m	7300	1081	6754	1055	6917
316.applu_m	4000	953	4197	953	4197
318.galgel_m	5100	714	7143	613	8318
320.equake_m	2600	338	7683	338	7683
324.apsi_m	3400	610	5574	582	5837
326.gafort_m	8700	1552	5607	1552	5607
328.fma3d_m	4600	1216	3784	1216	3784
330.art_m	6400	462	13863	457	14016
332.ammp_m	7000	2415	2898	2415	2898



Hardware

CPU:	AMD Opteron (TM) 250
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1,2
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	8x1GB, PC2700 CL2.5 DDR SDRAM ECC Registered
Disk Subsystem:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

OpenMP Threads:	2
Parallel:	OpenMP
Operating System:	Solaris 10
Compiler:	Sun Studio 10
File System:	ufs
System State:	Multi-User

Notes/Tuning Information

```
*****************************************************************
*vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv*
     This config uses the -xalias_level=strong flag for "base"
     and is in violation of run rule 2.2.4.  It is unacceptable
     as a base flag for future submissions.  This submission was
     accepted prior to this rule clarification and it has been
     established that any variation in performance due to this
     flag was within the range of tolerance for reproducibility.
*^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^*
*****************************************************************
 Base tuning:
   Fortran : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp
   C       : -fast -xipo=2 -xalias_level=strong -xarch=amd64 -xopenmp
   ONESTEP=yes
   srcalt = purdue1 used for 330.art_m

 Peak tuning:
  ONESTEP=yes for all peak tests.

  310.wupwise_m   : basepeak=yes
  312.swim_m      : basepeak=yes
  314.mgrid_m     : -fast -xipo=2 -xprefetch_level=3 -xarch=amd64 -xopenmp
  316.applu_m     : basepeak=yes
```

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Notes/Tuning Information (Continued)

```
 318.galgel_m    : -fast -xipo=2 -xprefetch_level=3 -xvector=simd -xarch=amd64
                   -xopenmp -xprofile -xlic_lib=sunperf; RM_SOURCES=lapak.f90
 320.equake_m    : basepeak=yes
 324.apsi_m      : -fast -xipo=2 -xprefetch_level=3  -xopenmp
 326.gafort_m    : basepeak=yes
 328.fma3d_m     : basepeak=yes
 330.art_m       : -fast -xcrossfile -xalias_level=std -xarch=amd64 -xopenmp -lmtmalloc
                   srcalt = purdue1
 332.ammp_m      : basepeak=yes

Portablility flags:
      Extra Base C flag : -Xc
      318.galgel_m      : -e -fixed
      330.art_m         : Extra Flag: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE

Base and Peak User Environment:
  export OMP_NUM_THREADS=2
  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

Default BIOS settings used.

For a description of Sun Studio 10 compiler and portability flags, and
system parameters used to generate this result, please refer to
SUN-20050214-Studio-Solaris-opteron.txt file in the flags directory.
```