OMPM2001 Result

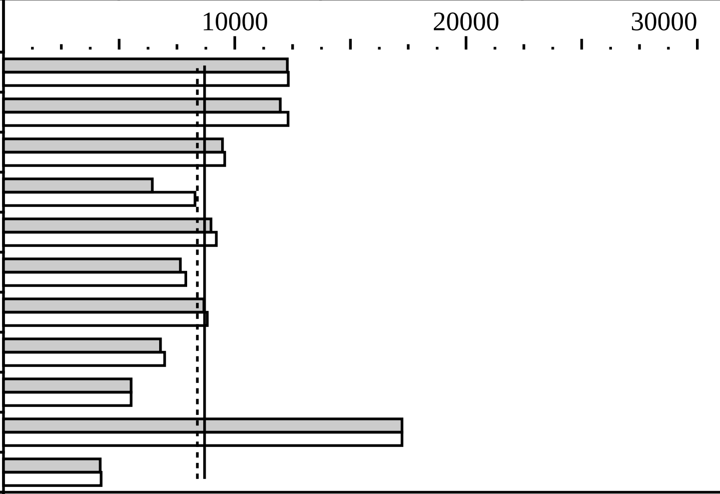
Sun Microsystems
Sun Fire V40z

SPECompMpeak2001 = 8694

SPECompMbase2001 = 8382

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	489	12273	487	12315
312.swim_m	6000	501	11967	488	12305
314.mgrid_m	7300	771	9469	763	9565
316.applu_m	4000	622	6434	483	8280
318.galgel_m	5100	568	8971	554	9202
320.equake_m	2600	340	7647	330	7883
324.apsi_m	3400	392	8664	386	8811
326.gafort_m	8700	1282	6788	1249	6967
328.fma3d_m	4600	834	5518	834	5518
330.art_m	6400	371	17231	371	17231
332.ammp_m	7000	1674	4181	1658	4221



Hardware

CPU:	AMD Opteron (TM) 850
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1,2,4
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	16x1GB, PC2700 CL2.5 DDR SDRAM ECC Registered
Disk Subsystem:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

OpenMP Threads:	4
Parallel:	OpenMP + Auto Concurrentization
Operating System:	SuSE Linux 9.0 Professional
Compiler:	PGI Fortran 5.2-1
File System:	Linux/ext3
System State:	Multi-User

Notes/Tuning Information

```
Base tuning:
  C       : pgcc  -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium
  Fortran : pgf90 -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium
  ONESTEP=yes
  srcalt = purdue1 used for 330.art_m

Peak tuning:
 ONESTEP=yes for all peak tests.

 310.wupwise_m   : -mp -fastsse -Minline=level:8  -mcmodel=medium
 312.swim_m      : -fastsse -Mconcur -Mipa=fast,inline  -mcmodel=medium
 314.mgrid_m     : -mp -fastsse    -Mnofptrap
 316.applu_m     : -mp -fastsse -O4  -Minline=levels:8 -mcmodel=medium
                   srcalt = ompl.32
 318.galgel_m    : -mp -fastsse -Mconcur -Mipa=fast,inline  -mcmodel=medium -Munsafe_par_align
 320.equake_m    : -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium
                   srcalt = ompl.32
 324.apsi_m      : -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium -Munsafe_par_align
                   srcalt = ompl.32
 326.gafort_m    : -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium
                   srcalt = ompl
 328.fma3d_m     : basepeak=yes
```

Notes/Tuning Information (Continued)

```
     330.art_m       : basepeak=yes
     332.ammp_m      : -mp -fastsse  -O -Minline  -Mframe

    Portablility flags:
     318.galgel_m    : -Mfixed -Mextend

    Base and Peak User Environment (bash):
      export OMP_NUM_THREADS=4
      export NCPUS=4
      export OMP_DYNAMIC=FALSE
      ulimit -s unlimited

    Default BIOS settings used.

    For a description of PGI compiler and portability flags, and
    system parameters used to generate this result, please refer to
    SUN-20041028-pgi-linux-opteron.txt file in the flags directory.
```