OMPM2001 Result

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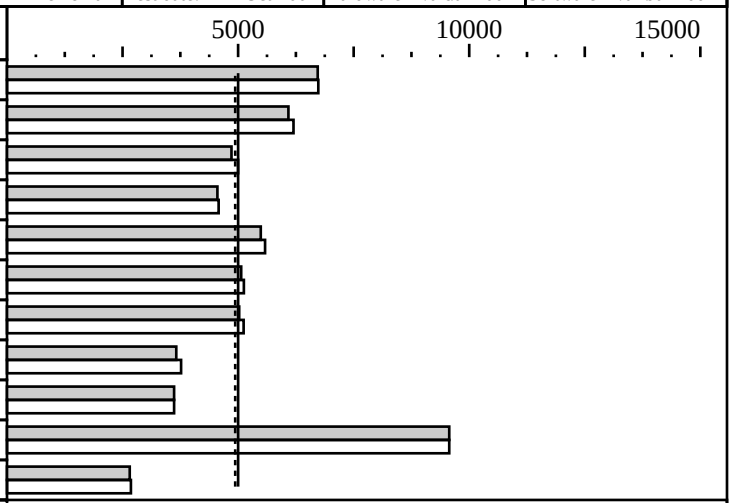
Sun Microsystems
Sun Fire V40z

SPECompMpeak2001 = 5000

SPECompMbase2001 = 4938

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	893	6722	891	6735
312.swim_m	6000	985	6088	968	6198
314.mgrid_m	7300	1503	4857	1460	4999
316.applu_m	4000	879	4552	874	4579
318.galgel_m	5100	929	5490	913	5583
320.equake_m	2600	513	5067	507	5125
324.apsi_m	3400	677	5023	664	5119
326.gafort_m	8700	2376	3662	2310	3766
328.fma3d_m	4600	1272	3615	1272	3615
330.art_m	6400	669	9568	669	9568
332.ammp_m	7000	2636	2655	2611	2681



Hardware

CPU:	AMD Opteron (TM) 850
CPU MHz:	2400
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 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:	8x1GB, PC2700 CL2.5 DDR SDRAM ECC Registered
Disk Subsystem:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

OpenMP Threads:	2
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
```

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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=2
  export NCPUS=2
  export OMP_DYNAMIC=FALSE
  ulimit -s unlimited

Only two CPUs were present, others were removed physically out of the system.
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.
```