OMPM2001 Result

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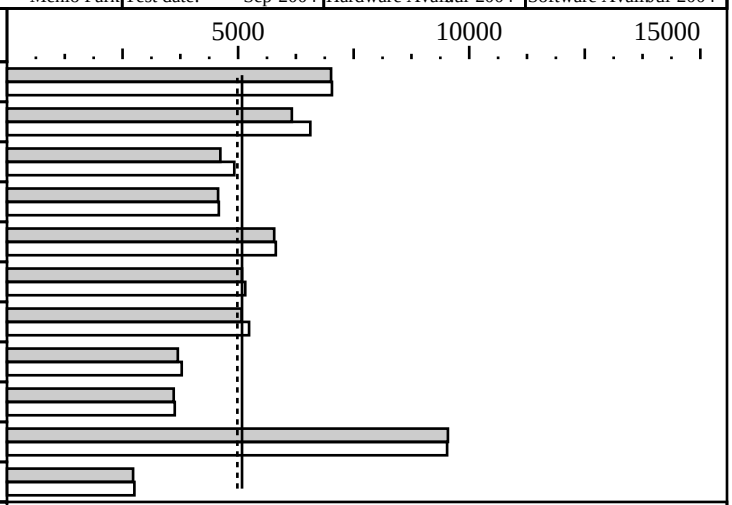
Sun Microsystems
Sun Java Workstation W2100z

SPECompMpeak2001 = 5085

SPECompMbase2001 = 4984

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	856	7011	853	7030
312.swim_m	6000	974	6162	914	6562
314.mgrid_m	7300	1582	4616	1485	4917
316.applu_m	4000	876	4567	873	4583
318.galgel_m	5100	882	5781	877	5815
320.equake_m	2600	511	5084	504	5154
324.apsi_m	3400	670	5076	649	5237
326.gafort_m	8700	2354	3696	2302	3780
328.fma3d_m	4600	1275	3607	1267	3629
330.art_m	6400	671	9539	672	9522
332.ammp_m	7000	2566	2728	2540	2756



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, PC3200 CL3 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 SLES 64bit
Compiler:	PGI Fortran 5.2-1 AMD Core Math Library (ACML) V2.0 for AMD64
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
  318.galgel_m : EXTRA_LIBS=-lacml

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 -Mlongbranch
 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
                   EXTRA_LIBS=-lacml
 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
                   srcalt = ompl.32
```

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Notes/Tuning Information (Continued)

```
  326.gafort_m    : -mp -fastsse -O4 -Minline=levels:8 -mcmodel=medium
                    srcalt = ompl
  328.fma3d_m     : -mp -fastsse -O4  -Mvect=assoc -Minline -mcmodel=medium
                    srcalt = purdue1
  332.ammp_m      : -mp -fastsse  -O -Minline  -Mframe

Portablility flags:
  318.galgel_m    : -Mfixed -Mextend

Base and Peak User Environment (bash):
  export NCPUS=2
  export OMP_NUM_THREADS=2
  export OMP_DYNAMIC=FALSE
  ulimit -s unlimited

Default BIOS settings used.
```