



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.quake_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 -mcmmodel=medium
Fortran : pgf90 -mp -fastsse -O4 -Minline=levels:8 -mcmmodel=medium
ONESTEP=yes
srcalt = purduel 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 -mcmmodel=medium
312.swim_m    : -fastsse -Mconcur -Mipa=fast,inline -mcmmodel=medium
314.mgrid_m   : -mp -fastsse -Mnofptrap -Mlongbranch
316.applu_m   : -mp -fastsse -O4 -Minline=levels:8 -mcmmodel=medium
              srcalt = omp1.32
318.galgel_m  : -mp -fastsse -Mconcur -Mipa=fast,inline -mcmmodel=medium
              EXTRA_LIBS=-lacml
320.quake_m   : -mp -fastsse -O4 -Minline=levels:8 -mcmmodel=medium
              srcalt = omp1.32
324.apsi_m    : -mp -fastsse -O4 -Minline=levels:8 -mcmmodel=medium
              srcalt = omp1.32
```



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Notes/Tuning Information (Continued)

```
326.gafort_m      : -mp -fastsse -O4 -Minline=levels:8 -mcmmodel=medium
                   srcalt = ompl
328.fma3d_m       : -mp -fastsse -O4 -Mvect=assoc -Minline -mcmmodel=medium
                   srcalt = purduel
332.ampm_m        : -mp -fastsse -O -Minline -Mframe
```

Portability 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.