



OMPM2001 Result

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Advanced Micro Devices

Tyan Thunder n6550W (S2915) (AMD Opteron(TM) 8220)

SPECompMpeak2001 = --

SPECompMbase2001 = 12172

SPEC license #HPG0017 | Tested by: AMD | Test site: Austin TX | Test date: Nov-2006 | Hardware Avail: Nov-2006 | Software Avail: Oct-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	354	16955			
312.swim_m	6000	577	10398			
314.mgrid_m	7300	629	11602			
316.applu_m	4000	439	9107			
318.galgel_m	5100	370	13796			
320.quake_m	2600	215	12121			
324.apsi_m	3400	255	13322			
326.gafort_m	8700	723	12036			
328.fma3d_m	4600	523	8799			
330.art_m	6400	203	31510			
332.ammp_m	7000	1116	6274			

Hardware

CPU: AMD Opteron(TM) Processor 8220
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/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: 8x512MB, PC2-5300R CL4
 Disk Subsystem: 250GB 7200 rpm SATA
 Other Hardware: None

Software

OpenMP Threads: 4
 Parallel: OpenMP
 Operating System: SLES9 SP3 64bit
 Compiler: QLogic PathScale Compiler Suite ver. 2.5
 File System: Linux/ext3
 System State: Multi-User

Notes/Tuning Information

Extra art Base Flags

330.art_m (extra): -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

Base tuning:

C : pathcc -mp -Ofast -mcmmodel=medium
 Fortran : pathf90 -mp -Ofast -OPT:early_mp=on -mcmmodel=medium
 ONESTEP=yes

Portability flags:

318.galgel_m : -fixedform -col80

Base and Peak User Environment (bash):

```
export OMP_NUM_THREADS=4
export OMP_DYNAMIC=FALSE
export PSC_OMP_AFFINITY=TRUE
export PSC_OMP_STATIC_FAIR=TRUE
export PSC_OMP_THREAD_SPIN=1000000000
ulimit -s unlimited
```

Default BIOS settings used.

AMD PowerNow!(TM) disabled by use of command "powersave -f"

System can be built using a standard EATX case, Matrox Millennium G450 PCI

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Notes/Tuning Information (Continued)

graphics adapter and an Antec True550 EPS12V power supply.
QLogic PathScale Compiler Suite flags are in AMD-20061207-psc25_flags.txt.