OMPM2001 Result

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Advanced Micro Devices

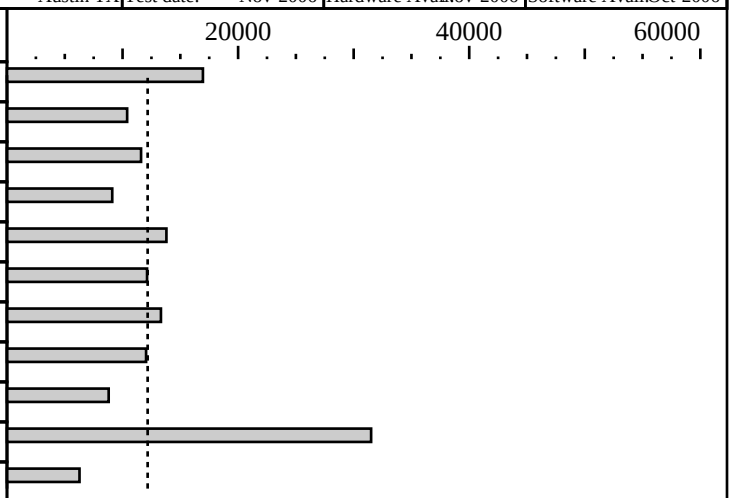
Tyan Thunder n6550W (S2915) (AMD Opteron(TM) 8220)

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.equake_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 -mcmodel=medium
  Fortran : pathf90 -mp -Ofast -OPT:early_mp=on -mcmodel=medium
  ONESTEP=yes


Portablility 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.