OMPM2001 Result

Copyright ©1999-2008, Standard Performance Evaluation Corporation

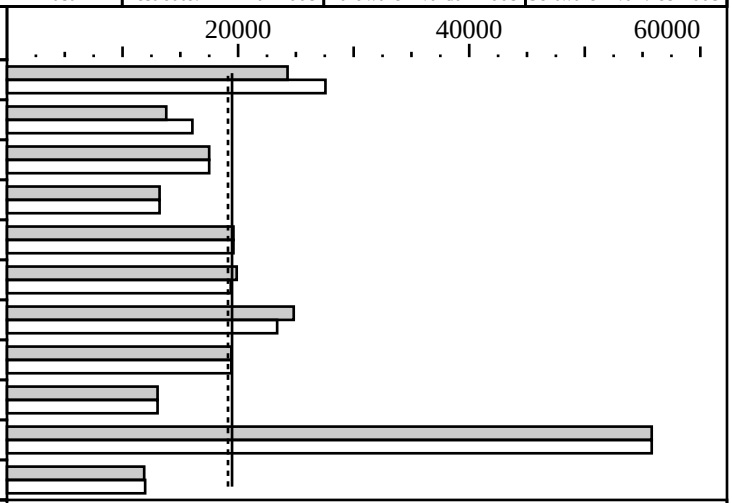
Asus
KFSN4-DRE

SPECompMpeak2001 = 19475

SPECompMbase2001 = 19125

SPEC license #: HPG0017	Tested by: Advanced Micro Devices	Test site: Austin TX	Test date: Mar-2008	Hardware Avail: Jun-2008	Software Avail: Feb-2008

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	247	24279	218	27559
312.swim_m	6000	435	13782	374	16044
314.mgrid_m	7300	417	17497	417	17497
316.applu_m	4000	303	13204	303	13204
318.galgel_m	5100	260	19595	260	19595
320.equake_m	2600	131	19879	134	19361
324.apsi_m	3400	137	24813	145	23379
326.gafort_m	8700	448	19417	448	19417
328.fma3d_m	4600	353	13030	353	13030
330.art_m	6400	115	55793	115	55793
332.ammp_m	7000	590	11872	586	11955



Hardware

CPU:	Quad-Core AMD Opteron(tm) Processor 2360 SE
CPU MHz:	2500
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1-2
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	2 MB I+D on chip per chip
Other Cache:	None
Memory:	16GB (8x2GB, PC2-5300, CL5 dual-rank)
Disk Subsystem:	160GB 7200 RPM SATA
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	OpenMP
Operating System:	SLES10 SP1 64bit
Compiler:	PathScale Compiler Suite ver. 3.1
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

Peak tuning:
  ONESTEP=yes for all peak tests.
  310.wupwise_m: -mp -Ofast -msse3 -LNO:prefetch_ahead=5:prefetch=3
                 -OPT:unroll_times_max=8:unroll_size=128:IEEE_NaN_Inf=off:ro=3
                 -IPA:linear=on:plimit=50000:callee_limit=5000
  312.swim_m: -mp -O3 -OPT:Ofast -m3dnow -mcmodel=medium -LNO:simd=0
  314.mgrid_m: basepeak=yes
  316.applu_m: basepeak=yes
  318.galgel_m: basepeak=yes
  320.equake_m: -Ofast -mp -OPT:alias=disjoint
  324.apsi_m: -mp -O3 -OPT:Ofast -TENV:x=4 -LNO:fusion=2:prefetch=0
  326.gafort_m: basepeak=yes
  328.fma3d_m: basepeak=yes
  330.art_m: basepeak=yes
  332.ammp_m: -mp -Ofast -mcpu=barcelona -mcmodel=medium
```

Copyright ©1999-2008, Standard Performance Evaluation Corporation

Asus
KFSN4-DRE

SPECompMpeak2001 = 19475
SPECompMbase2001 = 19125

SPEC license #: HPG0017 | Tested by: Advanced Micro Devices | Test site: Austin TX | Test date: Mar-2008 | Hardware Avail: Jun-2008 | Software Avail: Feb-2008

Notes/Tuning Information (Continued)

```
Alternate Sources:
  314.mgrid_m (base and peak): intel

Portablility flags:
 318.galgel_m    : -fixedform -col80

Base and Peak User Environment (bash):
  export OMP_NUM_THREADS=8
  export OMP_DYNAMIC=FALSE
  export PSC_OMP_AFFINITY=TRUE
  export PSC_OMP_STATIC_FAIR=TRUE
  export PSC_OMP_THREAD_SPIN=1000000000
  ulimit -s unlimited

For flag descriptions, see file AMD-Jun2008-psc31_flags.txt
Default BIOS settings used, except PowerNow! disabled in Bios
```