



CFP2000 Result

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Advanced Micro Devices
ASUS M2N-LR/SATA, AMD Opteron (TM) 1218

SPECfp_rate2000 = 37.3
SPECfp_rate_base2000 = 33.9

SPEC license #: 49 | Tested by: AMD Austin, TX | Test date: Jul-2006 | Hardware Avail: Sep-2006 | Software Avail: Oct-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	61.7	60.2	2	62.6	59.3
171.swim	2	266	27.0	2	195	36.9
172.mgrid	2	134	31.2	2	134	31.2
173.applu	2	186	26.2	2	171	28.4
177.mesa	2	139	23.3	2	69.0	47.0
178.galgel	2	120	55.9	2	117	57.5
179.art	2	70.1	86.1	2	70.1	86.1
183.quake	2	98.8	30.5	2	97.5	30.9
187.facerec	2	107	41.4	2	107	41.4
188.amp	2	193	26.5	2	161	31.7
189.lucas	2	154	30.2	2	149	31.2
191.fma3d	2	157	31.0	2	156	31.3
200.sixtrack	2	142	17.9	2	142	18.0
301.apsi	2	191	31.6	2	192	31.5

Hardware

CPU: AMD Opteron (TM) 1218
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip per core
 Secondary Cache: 1024KB (I+D) on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2x1024MB, DDR2-800 CL3
 Disk Subsystem: IDE, 120GB
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise edition SP1 (64-bit)
 Compiler: Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)
 File System: NTFS
 System State: default

Notes/Tuning Information

+FDO:
 icl, ifort : PASS1=-Qprof_gen PASS2=-Qprof_use
 pgf90 : PASS1=-Mpfi PASS2=-Mpfo
 ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
 pgf90 is the PGI Fortran 90 compiler.
 pgcc is the PGI C compiler.
 ONESTEP is set to 1 for every compile with the PGI compilers.
 Portability:
 178.galgel: -Mfixed
 Baseline: C : pgcc -fastsse -Mipa=fast,inline
 Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline +FDO
 Peak tuning:
 168.wupwise: pgf90 -fastsse -Mipa=fast,inline -Mvect
 171.swim: ifort -Qipo -O3 -QaxN -QxW -Qunroll0 +FDO
 172.mgrid: pgf90 -fastsse -Mipa=fast,inline
 173.applu: ifort -Qipo -O3 -QaxN -QxW -auto +FDO
 177.mesa: icl -Qipo -QxW -Qunroll1 -Qansi_alias +FDO



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Notes/Tuning Information (Continued)

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-Option,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
178.galgel:      pgf90  -fastsse -Mipa=fast,safe -Munix -lacml
                  RM_SOURCES=lapak.f90
179.art:         pgcc   basepeak=yes
183.equake:      icl    -O3 -Qipo -QxW +FDO
187.facerec:     pgf90  basepeak=1
188.ampp:        icl    -Oa  -QxW  -Zp4 -Qansi_alias
189.lucas:       ifort  -Qipo -QxW -Qunroll1
191.fma3d:       pgf90  -Mipa=fast,inline -fastsse -Mnovect +FDO
200.sixtrack:    pgf90  -fastsse -Mipa=fast,inline
301.apsi:        pgf90  -fastsse -Mipa=fast,inline

```

The tested system can be assembled using a standard ATX case and an Antec True 550 watt EPS12V Power Supply.

Half memory slots populated in dual channel configuration.

'start /b /wait /affinity' command is used to bind CPU(s) to processes