CFP2000 Result

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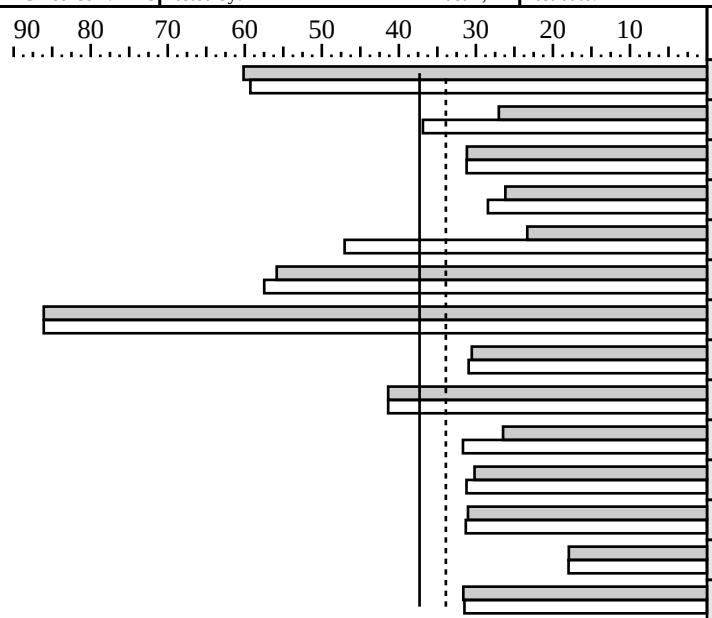
Advanced Micro Devices

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.equake	2	98.8	30.5	2	97.5	30.9
187.facerec	2	107	41.4	2	107	41.4
188.ammp	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 -Mnovect
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
```

Notes/Tuning Information (Continued)

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                        -Qoption,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.ammp:           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
```