



CFP2000 Result

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ASUS Computer International
Asus M2N32-SLI Deluxe, AMD Athlon (TM) 64 4200+

SPECfp2000 = 1610
SPECfp_base2000 = 1476

SPEC license #: 13 | Tested by: Intel Corporation | Test date: Jul-2006 | Hardware Avail: Jun-2006 | Software Avail: Jun-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	65.2	2454	65.2	2454	[Bar chart showing ratio 2454]			
171.swim	3100	136	2274	134	2315	[Bar chart showing ratio 2315]			
172.mgrid	1800	133	1352	133	1352	[Bar chart showing ratio 1352]			
173.applu	2100	149	1410	133	1577	[Bar chart showing ratio 1577]			
177.mesa	1400	178	788	88.1	1590	[Bar chart showing ratio 1590]			
178.galgel	2900	123	2360	113	2558	[Bar chart showing ratio 2558]			
179.art	2600	87.7	2966	87.7	2966	[Bar chart showing ratio 2966]			
183.quake	1300	82.1	1583	80.8	1609	[Bar chart showing ratio 1609]			
187.facerec	1900	108	1767	108	1767	[Bar chart showing ratio 1767]			
188.amp	2200	257	855	229	962	[Bar chart showing ratio 962]			
189.lucas	2000	118	1691	100	1995	[Bar chart showing ratio 1995]			
191.fma3d	2100	146	1443	144	1463	[Bar chart showing ratio 1463]			
200.sixtrack	1100	163	673	163	674	[Bar chart showing ratio 674]			
301.apsi	2600	258	1006	259	1004	[Bar chart showing ratio 1004]			

Hardware

CPU: AMD Athlon (TM) 64 4200+
CPU MHz: 2200
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: 512KB (I+D) on chip, per core
L3 Cache: N/A
Other Cache: N/A
Memory: 2x1 GB, Corsair CM2X1024-8500C5 DDR2-1066 (manually set to DDR2-800 5-5-5-15 in the bios)
Disk Subsystem: SATA, Western Digital WD740GD, 10000 rpm
Other Hardware: None

Software

Operating System: Microsoft Windows XP SP2
Compiler: Intel C++ 9.1 build 20060519Z for IA32, Intel Fortran 9.1 build 20060519Z for IA32, 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 -arch:SSE2 -Qunroll1 -Qansi_alias +FDO
```



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Notes/Tuning Information (Continued)

-Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500

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178.galgel:      pgf90  -fastsse -Mipa=fast,safe -Munix -lacml
                  RM_SOURCES=lapak.f90
179.art:         pgcc    basepeak=yes
183.quake:      icl     -fast -arch:SSE2 -QaxW +FDO
187.facerec:    pgf90  -fastsse -Mipa=fast,inline +FDO
188.ampp:       icl     -Oa  -arch:SSE2 -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 SUT was built with a discrete PCIe graphics card (ATI Radeon X850 XT) and an ATX 550W power supply. The 2 DIMMs were configured in dual-channel mode.