



CFP2000 Result

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ASUS Computer International
Asus M2N32-SLI Deluxe, AMD Athlon (TM) 64 FX-62

SPECfp2000 = **2134**
SPECfp_base2000 = **1945**

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	
168.wupwise	1600	52.4	3052	52.7	3036	
171.swim	3100	112	2757	110	2827	
172.mgrid	1800	100	1795	100	1793	
173.applu	2100	123	1701	110	1915	
177.mesa	1400	140	1000	69.6	2012	
178.galgel	2900	89.6	3237	82.5	3514	
179.art	2600	51.4	5058	51.4	5058	
183.quake	1300	68.3	1904	66.9	1944	
187.facerec	1900	85.3	2228	85.3	2228	
188.amp	2200	172	1282	144	1525	
189.lucas	2000	97.5	2052	82.0	2438	
191.fma3d	2100	117	1799	115	1823	
200.sixtrack	1100	129	856	128	857	
301.apsi	2600	170	1531	170	1527	

Hardware

CPU: AMD Athlon (TM) 64 FX-62
CPU MHz: 2800
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: 1MB (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)

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-Option,f,-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.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 X1900 XTX) and an ATX 550W power supply. The 2 DIMMs were configured in dual-channel mode.