



CFP2000 Result

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ASUS Computer International
Asus M2N32-SLI Deluxe, AMD Athlon (TM) 64 5000+

SPECfp2000 = **1809**
SPECfp_base2000 = **1652**

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	56.9	2814	57.3	2794				
171.swim	3100	128	2431	122	2546				
172.mgrid	1800	118	1529	118	1530				
173.applu	2100	135	1554	120	1752				
177.mesa	1400	152	921	74.8	1872				
178.galgel	2900	110	2626	103	2826				
179.art	2600	80.9	3214	80.9	3214				
183.quake	1300	74.7	1740	73.3	1774				
187.facerec	1900	95.1	1998	95.1	1997				
188.amp	2200	232	946	204	1079				
189.lucas	2000	109	1839	92.2	2170				
191.fma3d	2100	128	1647	126	1666				
200.sixtrack	1100	139	792	139	794				
301.apsi	2600	230	1132	230	1131				

Hardware

CPU: AMD Athlon (TM) 64 5000+
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: 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.