



CFP2000 Result

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

SPECfp_rate2000 = 43.7
SPECfp_rate_base2000 = 39.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	55.2	67.2	2	55.6	66.8
171.swim	2	200	36.1	2	152	47.3
172.mgrid	2	112	37.2	2	112	37.2
173.applu	2	143	34.0	2	129	37.7
177.mesa	2	140	23.3	2	68.0	47.7
178.galgel	2	100	67.0	2	96.0	70.1
179.art	2	60.5	99.7	2	60.5	99.7
183.equake	2	83.1	36.3	2	81.5	37.0
187.facerec	2	95.4	46.2	2	95.8	46.0
188.amp	2	175	29.2	2	146	35.0
189.lucas	2	118	39.4	2	112	41.3
191.fma3d	2	133	36.5	2	132	37.0
200.sixtrack	2	129	19.8	2	128	19.9
301.apsi	2	175	34.6	2	175	34.5

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)

-Qoption,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.