CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

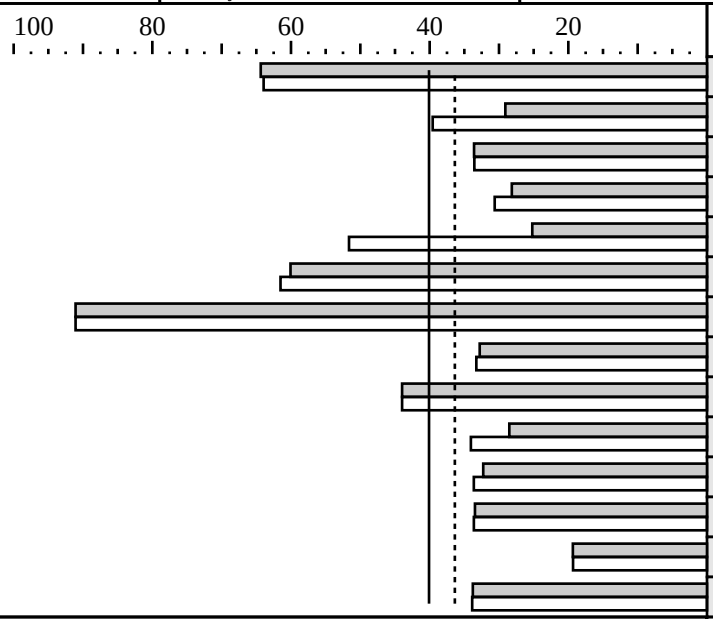
Advanced Micro Devices

ASUS M2N-LR/SATA, AMD Opteron (TM) 1220SE

SPECfp_rate2000 = 40.1

SPECfp_rate_base2000 = 36.4

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	57.7	64.4	2	58.0	63.9
171.swim	2	247	29.1	2	182	39.6
172.mgrid	2	124	33.6	2	124	33.6
173.applu	2	173	28.2	2	159	30.6
177.mesa	2	129	25.2	2	62.9	51.6
178.galgel	2	112	60.1	2	109	61.5
179.art	2	66.2	91.1	2	66.2	91.1
183.equake	2	92.0	32.8	2	90.7	33.3
187.facerec	2	100	44.0	2	100	44.0
188.ammp	2	179	28.5	2	150	34.1
189.lucas	2	144	32.3	2	138	33.6
191.fma3d	2	146	33.5	2	145	33.6
200.sixtrack	2	132	19.3	2	132	19.3
301.apsi	2	179	33.8	2	178	33.9

Hardware

CPU:	AMD Opteron (TM) 1220SE
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:	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)

```
                        -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
```