



CFP2000 Result

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Fujitsu Siemens Computers
CELSIUS M440, Intel dual-core Pentium D 960

SPECfp_rate2000 = 37.8
SPECfp_rate_base2000 = 37.5

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Jun-2006 Hardware Avail: May-2006 Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	56.2	66.1	2	56.2	66.0
171.swim	2	230	31.3	2	229	31.4
172.mgrid	2	147	28.5	2	145	28.8
173.applu	2	166	29.3	2	166	29.3
177.mesa	2	94.5	34.4	2	93.6	34.7
178.galgel	2	86.4	77.9	2	85.7	78.5
179.art	2	67.3	89.6	2	67.3	89.6
183.quake	2	67.0	45.0	2	66.0	45.7
187.facerec	2	104	42.4	2	102	43.1
188.amp	2	185	27.7	2	177	28.8
189.lucas	2	151	30.7	2	151	30.7
191.fma3d	2	159	30.6	2	157	31.1
200.sixtrack	2	153	16.6	2	153	16.6
301.apsi	2	190	31.7	2	190	31.7

Hardware

CPU: Intel Pentium D processor 960
CPU MHz: 3600
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 12k micro-ops I + 16KBD per core (on chip)
Secondary Cache: 2 MB(I+D) per core (on chip)
L3 Cache: N/A
Other Cache: N/A
Memory: 4 GB (4 x 1GB PC2-4200 DDR2 ECC modules)
Disk Subsystem: Maxtor 6Y160M0 (Serial ATA 7200 RPM)
Other Hardware:

Software

Operating System: Windows XP Professional, Service Pack 2
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1,
- Build 20060519Z Package ID: W_CC_P_9.1.025
Intel(R) Fortran Compiler for 32-bit app., Version 9.1,
- Build 20060519Z Package ID: W_FC_P_9.1.025
Microsoft Visual Studio .NET 2003 (for libraries)
MicroQuill SmartHeap Library, Version 8 (shlW32M.lib)
File System: NTFS
System State: Default

Notes/Tuning Information

Portability flags:

178.galgel: -FI /F32000000

Feedback optimization:

+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use

Baseline Tuning Flags:

for C programs:
-fast +FDO shlW32M.lib
for Fortran programs:
-fast +FDO shlW32M.lib

Peak Tuning Flags:

173.applu: basepeak=yes
168.wupwise: -fast +FDO
171.swim: -fast +FDO
172.mgrid: -fast +FDO



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Notes/Tuning Information (Continued)

```
173.applu:    basepeak=yes
177.mesa:    -fast +FDO ONESTEP=yes
178.galgel:  -fast +FDO
179.art:     -fast +FDO shlW32M.lib
183.quake:  -fast +FDO shlW32M.lib
187.facerec: -fast +FDO
188.ampp:   -fast +FDO
189.lucas:  basepeak=yes
191.fma3d:  -fast +FDO
200.sixtrack: -fast +FDO
301.apsi:   -fast +FDO
```

Extra Libraries:

```
shlW32M.lib = Microquill SmartHeap Library 8
see www.microquill.com
```

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