



CFP2000 Result

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Fujitsu Siemens Computers
CELSIUS M440, Intel dual-core Pentium D 820

SPECfp_rate2000 = 18.3
SPECfp_rate_base2000 = 18.2

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Nov-2005 | Hardware Avail: Jul-2005 | Software Avail: Sep-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	67.7	27.4	1	67.6	27.4
171.swim	1	125	28.8	1	126	28.6
172.mgrid	1	140	14.9	1	140	14.9
173.applu	1	148	16.5	1	146	16.7
177.mesa	1	112	14.5	1	112	14.5
178.galgel	1	120	28.1	1	120	28.1
179.art	1	84.3	35.8	1	84.3	35.8
183.quake	1	54.4	27.7	1	54.4	27.7
187.facerec	1	112	19.7	1	112	19.7
188.amp	1	261	9.78	1	239	10.7
189.lucas	1	102	22.8	1	102	22.8
191.fma3d	1	156	15.6	1	157	15.5
200.sixtrack	1	196	6.50	1	197	6.49
301.apsi	1	243	12.4	1	243	12.4

Hardware

CPU: Intel dual-core Pentium D processor 820
CPU MHz: 2800
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 on chip, per core
Secondary Cache: 1024KB(I+D) on chip, per core
L3 Cache: N/A
Other Cache: N/A
Memory: 4 GB (4x1 GB DDR2-533, 2rank, CL4-4-4, with ECC)
Disk Subsystem: 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 9.0, - Build 20050912Z Package ID: W_CC_C_9.0.024
Intel(R) Fortran Compiler for 32-bit app., Version 9.0, - Build 20050912Z Package ID: W_FC_C_9.0.024
Microsoft Visual Studio .NET 2003 (for libraries)
MicroQuill SmartHeap Library 7.4
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:

168.wupwise: -fast +FDO
171.swim: -fast +FDO
172.mgrid: -fast +FDO
173.applu: -fast -Qscalar_rep- -Qauto +FDO



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Notes/Tuning Information (Continued)

```
177.mesa:      -fast +FDO
178.galgel:    -fast +FDO
179.art:       -fast +FDO shlw32M.lib
183.earthquake: -fast +FDO shlw32M.lib
187.facerec:   -fast +FDO
188.ammmp:     -fast +FDO
189.lucas:     -fast +FDO
191.fma3d:     -fast +FDO
200.sixtrack: -fast +FDO
301.apsi:      -fast +FDO
```

Extra Libraries:

```
shlw32M.lib = Microquill SmartHeap Library 7.4
see www.microquill.com
```

The system bus runs at 800 MHz

For information about Fujitsu Siemens Computers in your country please see:
<http://www.fujitsu-siemens.com/countries>