



CFP2000 Result

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Fujitsu Siemens Computers
CELSIUS M440, Intel dual-core Pentium D 840

SPECfp_rate2000 = 20.1
SPECfp_rate_base2000 = 20.0

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	61.4	30.2	1	61.4	30.2
171.swim	1	121	29.7	1	122	29.5
172.mgrid	1	125	16.7	1	125	16.7
173.applu	1	134	18.2	1	132	18.4
177.mesa	1	98.5	16.5	1	98.5	16.5
178.galgel	1	110	30.7	1	110	30.6
179.art	1	79.9	37.7	1	80.1	37.7
183.quake	1	50.6	29.8	1	50.3	30.0
187.facerec	1	101	21.9	1	100	22.0
188.amp	1	241	10.6	1	218	11.7
189.lucas	1	91.8	25.3	1	93.0	25.0
191.fma3d	1	142	17.1	1	143	17.1
200.sixtrack	1	173	7.40	1	172	7.40
301.apsi	1	219	13.8	1	219	13.8

Hardware

CPU: Intel dual-core Pentium D processor 840
 CPU MHz: 3200
 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>