



# CFP2000 Result

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

SPECfp\_rate2000 = 32.1  
SPECfp\_rate\_base2000 = 31.7

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	2	69.0	53.8	2	69.0	53.8
171.swim	2	214	33.6	2	214	33.6
172.mgrid	2	146	28.6	2	146	28.6
173.applu	2	172	28.3	2	168	29.0
177.mesa	2	98.7	32.9	2	98.7	32.9
178.galgel	2	144	46.6	2	143	47.0
179.art	2	130	46.6	2	130	46.4
183.quake	2	72.5	41.6	2	72.5	41.6
187.facerec	2	115	38.5	2	114	38.7
188.amp	2	273	18.7	2	241	21.2
189.lucas	2	142	32.6	2	142	32.6
191.fma3d	2	177	27.6	2	171	28.5
200.sixtrack	2	173	14.8	2	173	14.8
301.apsi	2	243	24.8	2	244	24.7

### 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>