



# CFP2000 Result

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Fujitsu Siemens Computers  
CELSIUS M450 (Intel Core 2 Duo processor E6400)

SPECfp\_rate2000 = 36.4  
SPECfp\_rate\_base2000 = 36.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	56.3	65.9	2	56.4	65.9
171.swim	2	228	31.5	2	229	31.4
172.mgrid	2	157	26.5	2	157	26.6
173.applu	2	179	27.2	2	179	27.2
177.mesa	2	70.0	46.4	2	69.6	46.6
178.galgel	2	110	61.2	2	110	61.3
179.art	2	98.3	61.4	2	96.6	62.5
183.quake	2	70.9	42.5	2	71.0	42.5
187.facerec	2	109	40.3	2	108	40.7
188.amp	2	215	23.7	2	210	24.3
189.lucas	2	144	32.2	2	144	32.2
191.fma3d	2	157	31.0	2	157	30.9
200.sixtrack	2	132	19.3	2	132	19.3
301.apsi	2	183	33.0	2	182	33.1

### Hardware

CPU: Intel Core 2 Duo processor E6400  
CPU MHz: 2133  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1 chip  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x 1GB PC2-5300 5-5-5 2Rank SDRAM  
Disk Subsystem: 1 x 160GB SATA 7200 RPM  
Other Hardware: None

### 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: FAT32  
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.equake:  -fast +FDO shlW32M.lib
187.facerec: -fast +FDO
188.amp:     -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
```

The system bus runs at 1066 MHz

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