



# CFP2000 Result

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Fujitsu Siemens Computers  
CELSIUS R640, Intel Xeon 5130 processor

SPECfp2000 = 2110  
SPECfp\_base2000 = 2103

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

| Benchmark    | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 50.3         | 3182       | 50.3    | 3182  |  |
| 171.swim     | 3100           | 126          | 2469       | 126     | 2468  |  |
| 172.mgrid    | 1800           | 137          | 1316       | 137     | 1315  |  |
| 173.applu    | 2100           | 116          | 1807       | 116     | 1807  |  |
| 177.mesa     | 1400           | 73.9         | 1894       | 73.4    | 1907  |  |
| 178.galgel   | 2900           | 60.0         | 4835       | 60.0    | 4833  |  |
| 179.art      | 2600           | 37.3         | 6962       | 37.3    | 6962  |  |
| 183.quake    | 1300           | 50.2         | 2589       | 50.2    | 2589  |  |
| 187.facerec  | 1900           | 86.1         | 2207       | 86.1    | 2207  |  |
| 188.amp      | 2200           | 153          | 1435       | 147     | 1499  |  |
| 189.lucas    | 2000           | 91.5         | 2187       | 91.5    | 2187  |  |
| 191.fma3d    | 2100           | 133          | 1575       | 133     | 1573  |  |
| 200.sixtrack | 1100           | 138          | 799        | 138     | 799   |  |
| 301.apsi     | 2600           | 211          | 1232       | 211     | 1230  |  |

### Hardware

CPU: Intel Xeon 5130 processor (2.0 GHz, 1333 MHz system bus)  
CPU MHz: 2000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KBI + 32KBD on chip, per core  
Secondary Cache: 4096KB(I+D) on chip, per chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 GB (8x1 GB DDRII 5300F, 2rank, CL5-5-5, with ECC)  
Disk Subsystem: Serial ATA 7200 rpm  
Other Hardware:

### Software

Operating System: Windows XP, 64 bit Edition  
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.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](http://www.microquill.com)

Compilation was done in  
Windows XP Professional, Service Pack 2

Snoop Filter was enabled in BIOS

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