



# CFP2000 Result

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Fujitsu Siemens Computers  
CELSIUS R540, Intel Xeon 5110 processor

SPECfp\_rate2000 = 55.8  
SPECfp\_rate\_base2000 = 55.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	91.6	81.0	4	91.5	81.2
171.swim	4	339	42.4	4	340	42.4
172.mgrid	4	220	38.0	4	219	38.1
173.applu	4	243	40.0	4	243	40.0
177.mesa	4	96.9	67.1	4	96.1	67.6
178.galgel	4	96.8	139	4	97.0	139
179.art	4	83.8	144	4	83.8	144
183.equake	4	115	52.4	4	115	52.5
187.facerec	4	134	65.6	4	135	65.5
188.amp	4	229	44.6	4	203	50.2
189.lucas	4	224	41.5	4	224	41.5
191.fma3d	4	222	43.8	4	221	44.0
200.sixtrack	4	174	29.4	4	174	29.4
301.apsi	4	281	43.0	4	281	42.9

### Hardware

CPU: Intel Xeon 5110 processor (1.6 GHz, 1066 MHz system bus)  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 4 cores, 2 chips, 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: 4 GB (4x1 GB DDR2 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.equake: -fast +FDO shlW32M.lib
187.facerec: -fast +FDO
188.ampp:  -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

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