



CFP2000 Result

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Fujitsu Siemens Computers
CELSIUS M440, Intel Pentium 4 670

SPECfp2000 = 2067
SPECfp_base2000 = 2048

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Dec-2005 Hardware Avail: Jul-2005 Software Avail: Sep-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	55.2	2898	55.0	2907	
171.swim	3100	118	2625	118	2619	
172.mgrid	1800	108	1660	108	1662	
173.applu	2100	123	1701	123	1711	
177.mesa	1400	84.4	1659	84.4	1660	
178.galgel	2900	74.3	3906	74.1	3915	
179.art	2600	53.7	4846	53.7	4840	
183.quake	1300	43.8	2970	43.5	2987	
187.facerec	1900	87.2	2179	87.3	2175	
188.amp	2200	175	1259	157	1402	
189.lucas	2000	86.0	2327	85.3	2345	
191.fma3d	2100	128	1636	128	1641	
200.sixtrack	1100	147	750	147	751	
301.apsi	2600	179	1451	179	1454	

Hardware

CPU: Intel Pentium 4 processor 670
 CPU MHz: 3800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 12k micro-ops I + 16KBD on chip
 Secondary Cache: 2048KB(I+D) on chip
 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>