



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Fujitsu Siemens Computers
CELSIUS M440, Intel dual-core Pentium D 820

SPECfp_rate2000 = 29.3
SPECfp_rate_base2000 = 28.9

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	76.2	48.7	2	75.7	49.0
171.swim	2	228	31.6	2	228	31.5
172.mgrid	2	162	25.9	2	162	25.8
173.applu	2	187	26.0	2	182	26.8
177.mesa	2	113	28.8	2	113	28.9
178.galgel	2	157	42.9	2	157	43.0
179.art	2	139	43.4	2	139	43.3
183.quake	2	77.8	38.8	2	75.9	39.7
187.facerec	2	127	34.7	2	124	35.6
188.amp	2	298	17.2	2	266	19.2
189.lucas	2	154	30.2	2	153	30.3
191.fma3d	2	189	25.8	2	194	25.1
200.sixtrack	2	197	13.0	2	197	13.0
301.apsi	2	268	22.5	2	271	22.2

Hardware

CPU: Intel dual-core Pentium D processor 820
CPU MHz: 2800
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



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Fujitsu Siemens Computers
CELSIUS M440, Intel dual-core Pentium D 820

SPECfp_rate2000 = 29.3

SPECfp_rate_base2000 = 28.9

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

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.ammp: -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>