



CFP2000 Result

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Fujitsu Siemens Computers
CELSIUS R640, Intel Xeon 5160 processor

SPECfp_rate2000 = 82.5
SPECfp_rate_base2000 = 81.4

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	4	67.6	110	4	67.6	110
171.swim	4	269	53.5	4	268	53.6
172.mgrid	4	194	43.1	4	195	42.9
173.applu	4	176	55.2	4	176	55.2
177.mesa	4	50.7	128	4	49.8	130
178.galgel	4	56.6	238	4	56.4	238
179.art	4	52.6	229	4	52.5	230
183.quake	4	91.9	65.6	4	91.9	65.6
187.facerec	4	83.8	105	4	84.1	105
188.amp	4	145	70.5	4	119	85.9
189.lucas	4	157	59.2	4	157	59.2
191.fma3d	4	163	60.0	4	166	58.7
200.sixtrack	4	94.2	54.2	4	94.2	54.2
301.apsi	4	198	61.1	4	198	61.0

Hardware

CPU: Intel Xeon 5160 processor (3.0 GHz, 1333 MHz system bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1,2
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.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

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>