



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY RX220, AMD Opteron (TM) 275

SPECint\_rate2000 = 35.4  
SPECint\_rate\_base2000 = 32.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	116	27.9	2	116	27.9
175.vpr	2	118	27.4	2	115	28.3
176.gcc	2	68.0	37.6	2	68.1	37.5
181.mcf	2	208	20.1	2	166	25.1
186.crafty	2	70.2	33.0	2	63.9	36.3
197.parser	2	131	31.9	2	131	31.9
252.eon	2	77.2	39.1	2	54.5	55.3
253.perlbnk	2	125	33.5	2	115	36.4
254.gap	2	72.7	35.1	2	72.7	35.1
255.vortex	2	84.0	52.5	2	76.2	57.8
256.bzip2	2	130	26.7	2	128	27.3
300.twolf	2	203	34.3	2	171	40.8

### Hardware

CPU: AMD Opteron (TM) 275 processor (2.20 GHz)  
CPU MHz: 2200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 64KBI + 64KBD on chip, per core  
Secondary Cache: 1024KB (I+D) on chip, per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB DDR-RAM PC3200R  
Disk Subsystem: Western Digital WD2500 (SATA, 7.2krpm)  
Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition + SP1  
Compiler: Intel C++ 8.0  
Build 20040318Z (for 32-bit applications),  
Microsoft Visual Studio .Net 2003  
7.1.3088 (for libraries),  
SmartHeap Library Version 8.0  
from <http://www.microquill.com>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### GENERAL

+FDO: PASS1= -Qprof\_gen PASS2= -Qprof\_use

### Portability flags

176.gcc: -Dalloca=\_alloca /F10000000  
186.crafty: -DNT\_i386  
253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### Base tuning flags

for C programs: -fast -arch:SSE2 -Oi- +FDO  
for C++ programs: -fast -GX -GR +FDO

### Peak tuning flags

164.gzip: basepeak=yes  
175.vpr: -fast -arch:SSE2 -Qoption,c,-ip\_ninl\_max\_stats=2000,  
-ip\_ninl\_max\_total\_stats=4500 +FDO ONESTEP=yes  
176.gcc: -fast -arch:SSE2 -Oi- -Qunroll3 +FDO shlw32M.lib  
181.mcf: -fast -QaxN +FDO shlw32M.lib  
186.crafty: -fast -arch:SSE2 +FDO ONESTEP=yes shlw32M.lib



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## Notes/Tuning Information (Continued)

```
197.parser: basepeak=yes
252.eon: -fast -arch:SSE2 -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO ONESTEP=yes shlw32M.lib
253.perlbnk: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes shlw32M.lib
254.gap: basepeak=yes
255.vortex: -fast -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
256.bzip2: -fast -Qunroll2 shlw32M.lib
300.twolf: -fast -arch:SSE2 -Qansi_alias +FDO ONESTEP=yes shlw32M.lib
```

'start /b /wait /affinity' command is used to bind CPU(s) to processes

```
boot options: /Execute
              /NOPAE
              /USEPMTIMER
```

BIOS settings: Memory timing=1T

This result was measured with 32-bit binaries using the 32-bit version of the operating system.

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