



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY RX220, AMD Opteron (TM) 256

SPECint\_rate2000 = 24.5  
SPECint\_rate\_base2000 = 22.5

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jul-2006 | Hardware Avail: Apr-2006 | Software Avail: Jul-2006

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio				
45	40	35	30	25	20	15	10	5	164.zip	1	85.0	19.1	1	87.3	18.6
									175.vpr	1	90.6	17.9	1	90.3	18.0
									176.gcc	1	49.1	26.0	1	49.5	25.8
									181.mcf	1	151	13.8	1	120	17.3
									186.crafty	1	51.1	22.7	1	45.9	25.3
									197.parser	1	97.5	21.4	1	98.5	21.2
									252.eon	1	44.7	33.7	1	35.2	42.9
									253.perlbnk	1	80.3	26.0	1	74.8	27.9
									254.gap	1	51.6	24.7	1	52.0	24.5
									255.vortex	1	65.2	33.8	1	55.9	39.4
									256.bzip2	1	101	17.2	1	95.8	18.2
									300.twolf	1	153	22.7	1	126	27.6

### Hardware

CPU: AMD Opteron (TM) 256 processor (3.0 GHz)  
 CPU MHz: 3000  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 64KBI + 64KBD on chip  
 Secondary Cache: 1024KB (I+D) on chip  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 4x2GB DDR-RAM PC3200R (CAS 3-3-3)  
 Disk Subsystem: Seagate ST380013AS (SATA, 80GB, 7.2krpm)  
 Other Hardware: None

### Software

Operating System: Windows Server 2003 Enterprise Edition + SP1  
 Compiler: Intel C++ 9.1  
 Build 20060519Z (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: -O3 -Qipo -Qcxx-features +FDO

### Peak tuning flags

164.zip: -O3 -Qipo -QxW +FDO  
 175.vpr: -O3 -Qipo -QxW -Qoption,c,-ip\_ninl\_max\_stats=2000,  
 -ip\_ninl\_max\_total\_stats=4500 +FDO  
 176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll3 +FDO shlw32M.lib  
 181.mcf: -O3 -Qipo -QaxN +FDO shlw32M.lib  
 186.crafty: -O3 -Qipo -QxW +FDO shlw32M.lib



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## Notes/Tuning Information (Continued)

```
197.parser: -Oi -Qipo -QxW +FDO shlw32M.lib
252.eon: -O3 -Qipo -QxW -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
253.perlbnk: -O3 -Qipo -QxW +FDO shlw32M.lib
254.gap: -O3 -Qipo -QxW +FDO shlw32M.lib
255.vortex: -O3 -Qipo -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
256.bzip2: -O3 -Qipo -Qunroll2 shlw32M.lib
300.twolf: -O3 -Qipo -QxW -Qunroll3 -Qansi_alias +FDO shlw32M.lib
```

boot options: /execute /nopae

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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