



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 250

SPECint_rate2000 = 19.6
SPECint_rate_base2000 = 18.0

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jan-2006 | Hardware Avail: Dec-2005 | Software Avail: Mar-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	106	15.3	1	106	15.3
175.vpr	1	107	15.2	1	104	15.6
176.gcc	1	62.0	20.6	1	62.4	20.5
181.mcf	1	161	13.0	1	135	15.4
186.crafty	1	64.3	18.0	1	58.7	19.8
197.parser	1	120	17.5	1	120	17.5
252.eon	1	69.9	21.6	1	49.8	30.3
253.perlbnk	1	114	18.3	1	105	19.8
254.gap	1	65.0	19.6	1	65.0	19.6
255.vortex	1	77.1	28.6	1	70.4	31.3
256.bzip2	1	118	14.8	1	115	15.1
300.twolf	1	187	18.7	1	157	22.1

Hardware

CPU: AMD Opteron (TM) 250 processor (2.40 GHz)
 CPU MHz: 2400
 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: 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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