



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 280

SPECint_rate2000 = 38.0
SPECint_rate_base2000 = 34.8

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.4	2	107	30.4
175.vpr	2	111	29.2	2	108	30.1
176.gcc	2	62.8	40.6	2	63.0	40.5
181.mcf	2	204	20.4	2	163	25.7
186.crafty	2	64.3	36.1	2	58.7	39.5
197.parser	2	122	34.2	2	122	34.2
252.eon	2	70.4	42.8	2	50.0	60.3
253.perlbnk	2	115	36.3	2	106	39.5
254.gap	2	68.3	37.4	2	68.3	37.4
255.vortex	2	78.4	56.2	2	70.9	62.2
256.bzip2	2	122	28.5	2	120	29.0
300.twolf	2	188	37.0	2	157	44.5

Hardware

CPU: AMD Opteron (TM) 280 processor (2.40 GHz)
 CPU MHz: 2400
 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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