



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 285

SPECint_rate2000 = **84.0**
SPECint_rate_base2000 = **76.5**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	98.3	66.1	4	101	64.5
175.vpr	4	106	61.4	4	104	62.3
176.gcc	4	57.3	89.1	4	57.4	88.9
181.mcf	4	204	40.9	4	153	54.4
186.crafty	4	58.7	79.0	4	52.6	88.2
197.parser	4	113	73.8	4	114	73.1
252.eon	4	52.7	114	4	40.6	149
253.perlbnk	4	93.1	89.7	4	86.4	96.7
254.gap	4	62.2	82.1	4	61.0	83.7
255.vortex	4	75.6	117	4	64.8	136
256.bzip2	4	117	59.4	4	112	62.2
300.twolf	4	175	79.7	4	144	96.9

Hardware

CPU: AMD Opteron (TM) 285 processor (2.60 GHz)
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 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: 8x2GB 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.gzip: -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
```

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

boot options: /noexecute=alwaysoff /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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