



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 252

SPECint_rate2000 = 21.0
SPECint_rate_base2000 = 19.3

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	98.3	16.5	1	98.3	16.5
175.vpr	1	101	16.2	1	98.1	16.5
176.gcc	1	57.6	22.2	1	57.9	22.0
181.mcf	1	158	13.2	1	132	15.8
186.crafty	1	59.3	19.6	1	54.3	21.4
197.parser	1	111	18.7	1	111	18.7
252.eon	1	64.8	23.3	1	45.9	32.8
253.perlbnk	1	106	19.7	1	97.4	21.4
254.gap	1	60.3	21.2	1	60.3	21.2
255.vortex	1	72.3	30.5	1	65.8	33.5
256.bzip2	1	111	15.7	1	109	16.0
300.twolf	1	174	20.0	1	145	24.0

Hardware

CPU: AMD Opteron (TM) 252 processor (2.60 GHz)
CPU MHz: 2600
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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