CINT2000 Result

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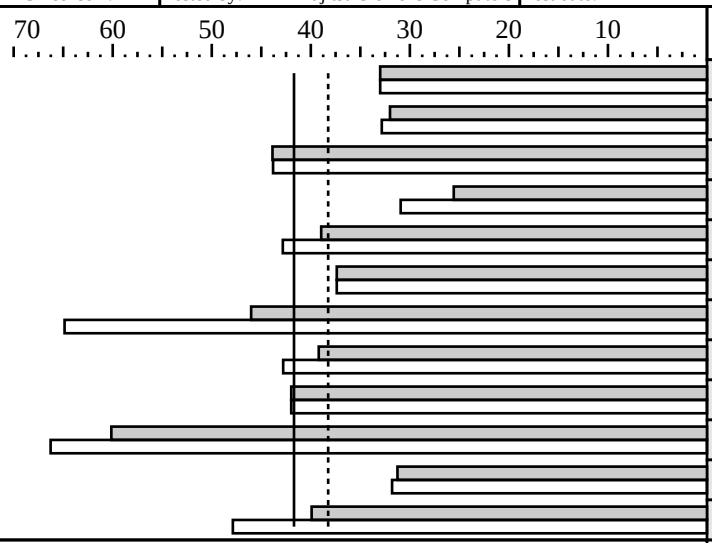
Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 252

SPECint_rate2000 = 41.7

SPECint_rate_base2000 = 38.2

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	2	98.4	33.0	2	98.4	33.0
175.vpr	2	101	32.0	2	98.9	32.8
176.gcc	2	58.2	43.9	2	58.3	43.8
181.mcf	2	163	25.6	2	135	30.9
186.crafty	2	59.6	39.0	2	54.2	42.8
197.parser	2	112	37.4	2	112	37.4
252.eon	2	65.5	46.0	2	46.5	64.9
253.perlbmk	2	107	39.2	2	97.6	42.8
254.gap	2	60.8	42.0	2	60.8	42.0
255.vortex	2	73.3	60.1	2	66.5	66.3
256.bzip2	2	111	31.3	2	109	31.8
300.twolf	2	174	39.9	2	145	47.9

Hardware

CPU:	AMD Opteron (TM) 252 processor (2.60 GHz)
CPU MHz:	2600
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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:	8x2048MB 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.perlbmk: -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.perlbmk: -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:  /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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http://www.fujitsu-siemens.com/countries
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