CINT2000 Result

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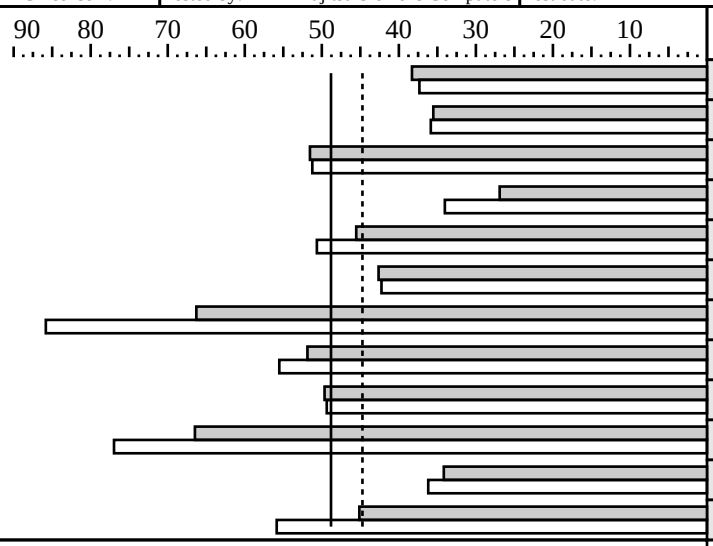
Fujitsu Siemens Computers

PRIMERGY RX220, AMD Opteron (TM) 256

SPECint_rate2000 = 48.8

SPECint_rate_base2000 = 44.7

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	84.8	38.3	2	87.0	37.3
175.vpr	2	91.4	35.5	2	90.6	35.9
176.gcc	2	49.5	51.5	2	49.8	51.2
181.mcf	2	155	26.9	2	123	34.0
186.crafty	2	51.0	45.5	2	45.8	50.6
197.parser	2	98.0	42.6	2	98.8	42.3
252.eon	2	45.5	66.3	2	35.1	85.8
253.perlbmk	2	80.5	51.9	2	75.2	55.5
254.gap	2	51.4	49.6	2	51.7	49.4
255.vortex	2	66.3	66.5	2	57.3	77.0
256.bzip2	2	102	34.2	2	96.2	36.2
300.twolf	2	154	45.1	2	125	55.9

Hardware

CPU:	AMD Opteron (TM) 256 processor (3.0 GHz)
CPU MHz:	3000
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:	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.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: -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.perlbmk: -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

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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