CINT2000 Result

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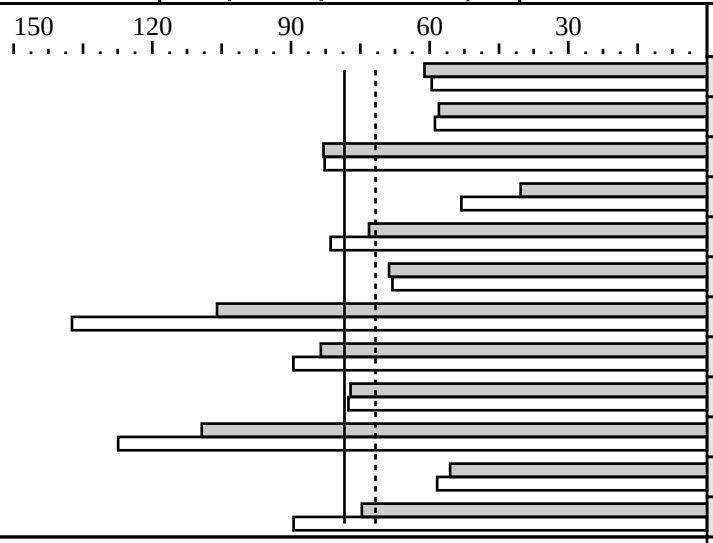
Fujitsu Siemens Computers

PRIMERGY RX220, AMD Opteron (TM) 280

SPECint_rate2000 = 78.4

SPECint_rate_base2000 = 71.7

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	106	61.1	4	109	59.6
175.vpr	4	112	58.0	4	110	58.9
176.gcc	4	61.5	83.0	4	61.7	82.7
181.mcf	4	207	40.3	4	157	53.1
186.crafty	4	63.5	73.1	4	57.0	81.4
197.parser	4	121	68.8	4	123	68.0
252.eon	4	56.9	106	4	43.9	137
253.perlbmk	4	100.0	83.5	4	93.3	89.5
254.gap	4	66.2	77.1	4	65.8	77.6
255.vortex	4	80.7	109	4	69.2	127
256.bzip2	4	125	55.6	4	119	58.4
300.twolf	4	186	74.7	4	156	89.4

Hardware

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