CINT2000 Result

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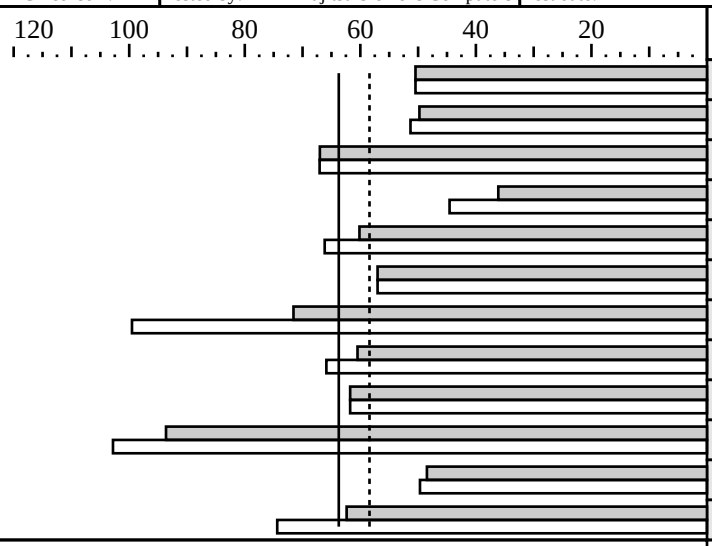
Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 870

SPECint_rate2000 = 63.7

SPECint_rate_base2000 = 58.4

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jan-2006 | Hardware Avail: Oct-2005 | Software Avail: Mar-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	129	50.5	4	129	50.5
175.vpr	4	131	49.8	4	127	51.3
176.gcc	4	76.2	67.0	4	76.1	67.0
181.mcf	4	231	36.1	4	187	44.6
186.crafty	4	77.1	60.1	4	70.1	66.2
197.parser	4	146	57.0	4	146	57.0
252.eon	4	84.3	71.6	4	60.6	99.5
253.perlbmk	4	138	60.5	4	127	65.9
254.gap	4	82.6	61.8	4	82.6	61.8
255.vortex	4	94.2	93.6	4	85.8	103
256.bzip2	4	144	48.5	4	140	49.7
300.twolf	4	223	62.4	4	187	74.4

Hardware

CPU:	AMD Opteron (TM) 870 processor (2.0 GHz)
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2,4
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:	8x1024MB DDR-RAM PC3200R CL3-3-3
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
                   DRAM Bank Interleave=AUTO

    This result was measured with 32-bit binaries using the 32-bit version of
    the operating system.

    For information about Fujitsu Siemens Computers in your country please see:
    http://www.fujitsu-siemens.com/countries
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