CINT2000 Result

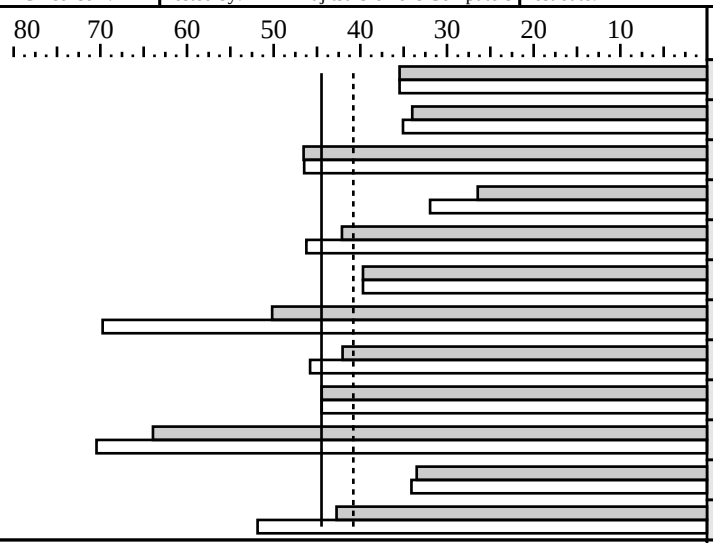
Copyright ©1999-2005, Standard Performance Evaluation Corporation

Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 254

SPECint_rate2000 = 44.5

SPECint_rate_base2000 = 40.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	91.6	35.5	2	91.6	35.5
175.vpr	2	95.5	34.0	2	92.6	35.1
176.gcc	2	54.8	46.5	2	54.9	46.5
181.mcf	2	158	26.5	2	131	32.0
186.crafty	2	55.1	42.1	2	50.2	46.2
197.parser	2	105	39.7	2	105	39.7
252.eon	2	60.1	50.2	2	43.3	69.7
253.perlbmk	2	99.3	42.0	2	91.2	45.8
254.gap	2	57.4	44.5	2	57.4	44.5
255.vortex	2	69.0	63.9	2	62.6	70.4
256.bzip2	2	104	33.5	2	102	34.1
300.twolf	2	163	42.7	2	134	51.9

Hardware

CPU:	AMD Opteron (TM) 254 processor (2.80 GHz)
CPU MHz:	2800
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, per core
Secondary Cache:	1024KB (I+D) on chip, per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8x2048MB 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
```

Copyright ©1999-2005, Standard Performance Evaluation Corporation

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
```