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

SPECint_rate2000 = 120
SPECint_rate_base2000 = 109

Benchmark Base Base Base Copies Copies Runtime Ratio
164.gzip 8 132 98.8 8 132 98.8
175.vpr 8 146 89.1 8 142 91.6
176.gcc 8 80.7 126 8 80.6 127
181.mcf 8 288 57.9 8 235 71.1
186.crafty 8 77.4 120 8 70.5 132
197.parser 8 155 108 8 155 108
252.eon 8 84.4 143 8 60.6 199
253.perlbmk 8 143 117 8 130 128
254.gap 8 88.2 116 8 88.2 116
255.vortex 8 106 167 8 94.5 187
256.bzip2 8 158 87.9 8 155 90.0
300.twolf 8 243 114 8 188 148

Hardware
CPU: AMD Opteron (TM) 870 processor (2 GHz)
CPU MHz: 2000
FPU: Integrated
CPU(s) enabled: 8 cores, 4 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: 16x1024MB DDR-RAM PC3200R
Disk Subsystem: Western Digital WD2500 (SATA, 7.2krpm)
Other Hardware: None

Software
Operating System: Windows Server 2003 Enterprise Edition + SP1
File System: NTFS
System State: Default

Notes/Tuning Information
GENERAL
+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use

Portability flags
176.gcc: -Dalgoa=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: besepeak=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.perlbench: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes shlw32M.lib
254.gap: besepeak=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: /Execute
            /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.

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