



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 256

SPECint_rate2000 = 48.5
SPECint_rate_base2000 = 44.4

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	85.1	38.2	2	87.2	37.2
175.vpr	2	91.5	35.5	2	90.2	36.0
176.gcc	2	50.9	50.1	2	50.7	50.4
181.mcf	2	159	26.2	2	127	33.0
186.crafty	2	50.9	45.6	2	45.7	50.8
197.parser	2	99.7	41.9	2	100	41.6
252.eon	2	45.4	66.4	2	35.2	85.7
253.perlbnk	2	81.5	51.2	2	75.6	55.2
254.gap	2	51.5	49.5	2	52.8	48.3
255.vortex	2	66.8	66.0	2	57.2	77.1
256.bzip2	2	102	34.3	2	95.8	36.3
300.twolf	2	153	45.6	2	124	56.0

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: 8x1GB DDR-RAM PC3200R (CAS 3-3-3)
 Disk Subsystem: Maxtor DiamondPLUS 9 (SATA)
 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.perlbnk: -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.perlbnk: -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
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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