



CINT2000 Result

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

SPECint_rate2000 = 24.6
SPECint_rate_base2000 = 22.5

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.zip	1	85.0	19.1	1	87.4	18.6
175.vpr	1	90.4	18.0	1	89.3	18.2
176.gcc	1	49.3	25.9	1	49.4	25.8
181.mcf	1	152	13.7	1	120	17.4
186.crafty	1	50.9	22.8	1	45.7	25.4
197.parser	1	98.1	21.3	1	99.0	21.1
252.eon	1	44.5	33.9	1	35.2	42.8
253.perlbnk	1	80.5	25.9	1	74.9	27.9
254.gap	1	52.2	24.5	1	52.2	24.4
255.vortex	1	64.5	34.2	1	55.1	40.0
256.bzip2	1	100	17.3	1	94.8	18.4
300.twolf	1	154	22.7	1	125	27.8

Hardware

CPU: AMD Opteron (TM) 256 processor (3.0 GHz)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 4x1GB 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.zip: -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
```

Boot options: /execute /nopae

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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