



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 280

SPECint_rate2000 = 78.4
SPECint_rate_base2000 = 71.7

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jul-2006 | Hardware Avail: Dec-2005 | Software Avail: Jul-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	106	61.1	4	109	59.6
175.vpr	4	112	58.0	4	110	58.9
176.gcc	4	61.5	83.0	4	61.7	82.7
181.mcf	4	207	40.3	4	157	53.1
186.crafty	4	63.5	73.1	4	57.0	81.4
197.parser	4	121	68.8	4	123	68.0
252.eon	4	56.9	106	4	43.9	137
253.perlbnk	4	100.0	83.5	4	93.3	89.5
254.gap	4	66.2	77.1	4	65.8	77.6
255.vortex	4	80.7	109	4	69.2	127
256.bzip2	4	125	55.6	4	119	58.4
300.twolf	4	186	74.7	4	156	89.4

Hardware

CPU: AMD Opteron (TM) 280 processor (2.40 GHz)
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/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: 8x2GB DDR-RAM PC3200R (CAS 3-3-3)
Disk Subsystem: Seagate ST380013AS (SATA, 80GB, 7.2krpm)
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 /USEPMTIMER

BIOS settings: Memory timing=1T

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

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