



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 285

SPECint_rate2000 = 42.1
SPECint_rate_base2000 = 38.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	98.0	33.2	2	101	32.2
175.vpr	2	105	30.9	2	104	31.3
176.gcc	2	57.0	44.8	2	57.0	44.8
181.mcf	2	202	20.7	2	151	27.6
186.crafty	2	59.0	39.4	2	52.8	44.0
197.parser	2	112	37.2	2	114	36.5
252.eon	2	52.3	57.7	2	40.6	74.2
253.perlbnk	2	92.5	45.2	2	86.0	48.5
254.gap	2	61.3	41.7	2	61.6	41.4
255.vortex	2	74.4	59.3	2	63.8	69.0
256.bzip2	2	116	30.0	2	112	31.0
300.twolf	2	174	39.9	2	144	48.3

Hardware

CPU: AMD Opteron (TM) 285 processor (2.60 GHz)
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 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: 4x2GB 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: /execute /nopae /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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