



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 250

SPECint2000 = 1688
SPECint_base2000 = 1555

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	106	1316	106	1316	
175.vpr	1400	107	1308	104	1342	
176.gcc	1100	62.0	1775	62.4	1764	
181.mcf	1800	161	1117	135	1331	
186.crafty	1000	64.3	1556	58.7	1703	
197.parser	1800	120	1505	120	1505	
252.eon	1300	69.9	1861	49.8	2610	
253.perlbnk	1800	114	1576	105	1708	
254.gap	1100	65.0	1693	65.0	1693	
255.vortex	1900	77.1	2463	70.4	2700	
256.bzip2	1500	118	1272	115	1300	
300.twolf	3000	187	1608	157	1908	

Hardware

CPU: AMD Opteron (TM) 250 processor (2.40 GHz)
CPU MHz: 2400
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: 4x2048MB DDR-RAM PC3200R
Disk Subsystem: Western Digital WD2500 (SATA, 7.2krpm)
Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition + SP1
Compiler: Intel C++ 8.0
Build 20040318Z (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: -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: basepeak=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.perlbnk: -fast -arch:SSE2 -Oi- +FDO ONESTEP=yes shlw32M.lib
254.gap: basepeak=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
              /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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