



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY BX630, AMD Opteron (TM) 254

SPECint\_rate2000 = 22.6  
SPECint\_rate\_base2000 = 20.7

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jan-2006 | Hardware Avail: Feb-2006 | Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	91.3	17.8	1	91.3	17.8
175.vpr	1	94.2	17.2	1	91.3	17.8
176.gcc	1	53.7	23.8	1	53.9	23.7
181.mcf	1	150	14.0	1	124	16.9
186.crafty	1	55.0	21.1	1	50.3	23.1
197.parser	1	104	20.1	1	104	20.1
252.eon	1	59.9	25.2	1	42.5	35.5
253.perlbnk	1	98.4	21.2	1	90.5	23.1
254.gap	1	56.5	22.6	1	56.5	22.6
255.vortex	1	66.7	33.0	1	60.8	36.3
256.bzip2	1	103	16.9	1	101	17.3
300.twolf	1	161	21.7	1	135	25.9

### Hardware

CPU: AMD Opteron (TM) 254 processor (2.80 GHz)  
CPU MHz: 2800  
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, per core  
Secondary Cache: 1024KB (I+D) on chip, per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB DDR-RAM PC3200R CL3-3-3  
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
```

```
boot options: /Execute /NOPAE
              /USEPMTIMER
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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