



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY BX630, AMD Opteron (TM) 280

SPECint\_rate2000 = 75.4  
SPECint\_rate\_base2000 = 68.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	108	60.3	4	108	60.3
175.vpr	4	111	58.3	4	108	60.1
176.gcc	4	64.0	79.7	4	64.0	79.7
181.mcf	4	209	40.0	4	167	50.0
186.crafty	4	64.3	72.2	4	58.5	79.3
197.parser	4	123	67.7	4	123	67.7
252.eon	4	70.1	86.0	4	50.5	119
253.perlbnk	4	116	72.1	4	106	78.7
254.gap	4	70.3	72.6	4	70.3	72.6
255.vortex	4	79.8	110	4	72.4	122
256.bzip2	4	123	56.8	4	119	58.5
300.twolf	4	188	73.9	4	156	89.2

### 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: 8x2048MB 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: /NoExecute=alwaysoff
              /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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