



# CINT2000 Result

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Fujitsu Siemens Computers  
PRIMERGY BX630, AMD Opteron (TM) 870

SPECint\_rate2000 = 63.7  
SPECint\_rate\_base2000 = 58.4

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jan-2006 | Hardware Avail: Oct-2005 | Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	129	50.5	4	129	50.5
175.vpr	4	131	49.8	4	127	51.3
176.gcc	4	76.2	67.0	4	76.1	67.0
181.mcf	4	231	36.1	4	187	44.6
186.crafty	4	77.1	60.1	4	70.1	66.2
197.parser	4	146	57.0	4	146	57.0
252.eon	4	84.3	71.6	4	60.6	99.5
253.perlbnk	4	138	60.5	4	127	65.9
254.gap	4	82.6	61.8	4	82.6	61.8
255.vortex	4	94.2	93.6	4	85.8	103
256.bzip2	4	144	48.5	4	140	49.7
300.twolf	4	223	62.4	4	187	74.4

### Hardware

CPU: AMD Opteron (TM) 870 processor (2.0 GHz)  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2,4  
 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: 8x1024MB 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
```

'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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