



# CINT2000 Result

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## Fujitsu Siemens Computers

PRIMERGY BX620 S3, Intel Xeon processor E5320, 1.86 GHz

SPECint\_rate2000 = 77.4

SPECint\_rate\_base2000 = 77.4

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

| Benchmark   | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.zip     | 4           | 125          | 52.0       | 4      | 125     | 52.0  |
| 175.vpr     | 4           | 115          | 56.5       | 4      | 115     | 56.5  |
| 176.gcc     | 4           | 58.4         | 87.4       | 4      | 58.4    | 87.4  |
| 181.mcf     | 4           | 127          | 65.9       | 4      | 127     | 65.9  |
| 186.crafty  | 4           | 58.8         | 78.9       | 4      | 58.8    | 78.9  |
| 197.parser  | 4           | 129          | 64.5       | 4      | 129     | 64.5  |
| 252.eon     | 4           | 53.9         | 112        | 4      | 53.9    | 112   |
| 253.perlbnk | 4           | 82.8         | 101        | 4      | 82.8    | 101   |
| 254.gap     | 4           | 77.8         | 65.6       | 4      | 77.8    | 65.6  |
| 255.vortex  | 4           | 68.0         | 130        | 4      | 68.0    | 130   |
| 256.bzip2   | 4           | 123          | 56.4       | 4      | 123     | 56.4  |
| 300.twolf   | 4           | 141          | 99.0       | 4      | 141     | 99.0  |

### Hardware

CPU: Intel Xeon processor E5320 (1.86 GHz, 2x4MB L2, 1066 MHz system bus)  
CPU MHz: 1866  
FPU: Integrated  
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8MB(I+D) on chip, per chip (4MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8x1GB DDR2-RAM PC2-5300F (CAS 5-5-5)  
Disk Subsystem: Seagate ST936701SS (SAS, 10 krpm, 36GB)  
Other Hardware: none

### Software

Operating System: Windows Server 2003 Enterprise Edition + SP1 (32-bit)  
Compiler: Intel C++ Compiler 9.1  
Build 20060323Z (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 +FDO shlw32m.lib  
for C++ programs: -fast -Qcxx\_features +FDO shlw32m.lib

### Peak tuning flags

same as baseline (basepeak=true set globally)

The system bus runs at 1066 MHz

This result was measured with 32-bit binaries using the 32-bit version of the operating system.



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## Notes/Tuning Information (Continued)

BIOS Configuration:

Adjacent Cache Line Prefetch = Disable

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