



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Fujitsu Siemens Computers  
PRIMERGY BX630, AMD Opteron (TM) 865

SPECint\_rate2000 = 58.5  
SPECint\_rate\_base2000 = 53.7

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	142	45.6	4	142	45.6
175.vpr	4	142	45.8	4	137	47.5
176.gcc	4	83.8	60.9	4	83.6	61.0
181.mcf	4	233	35.9	4	190	44.0
186.crafty	4	85.6	54.2	4	77.8	59.6
197.parser	4	159	52.4	4	159	52.4
252.eon	4	93.5	64.5	4	67.2	89.8
253.perlbnk	4	153	54.7	4	141	59.4
254.gap	4	90.0	56.7	4	90.0	56.7
255.vortex	4	103	85.6	4	93.7	94.1
256.bzip2	4	154	45.1	4	150	46.3
300.twolf	4	243	57.2	4	208	66.9

### Hardware

CPU: AMD Opteron (TM) 865 processor (1.80 GHz)  
CPU MHz: 1800  
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: 8x2048MB 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



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Fujitsu Siemens Computers  
PRIMERGY BX630, AMD Opteron (TM) 865

SPECint\_rate2000 = 58.5  
SPECint\_rate\_base2000 = 53.7

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

## 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.

For information about Fujitsu Siemens Computers in your country please see:  
<http://www.fujitsu-siemens.com/countries>