



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 252

SPECint2000 = 1817
SPECint_base2000 = 1668

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	98.3	1424	98.3	1424	[Bar chart showing ratio 1424]			
175.vpr	1400	100	1398	97.0	1443	[Bar chart showing ratio 1443]			
176.gcc	1100	57.6	1910	57.9	1899	[Bar chart showing ratio 1899]			
181.mcf	1800	159	1132	130	1384	[Bar chart showing ratio 1384]			
186.crafty	1000	59.2	1690	54.1	1848	[Bar chart showing ratio 1848]			
197.parser	1800	112	1614	112	1614	[Bar chart showing ratio 1614]			
252.eon	1300	64.4	2018	45.8	2840	[Bar chart showing ratio 2840]			
253.perlbnk	1800	106	1703	97.4	1849	[Bar chart showing ratio 1849]			
254.gap	1100	60.8	1811	60.8	1811	[Bar chart showing ratio 1811]			
255.vortex	1900	71.2	2670	64.9	2929	[Bar chart showing ratio 2929]			
256.bzip2	1500	110	1369	107	1399	[Bar chart showing ratio 1399]			
300.twolf	3000	173	1732	145	2070	[Bar chart showing ratio 2070]			

Hardware

CPU: AMD Opteron (TM) 252 processor (2.60 GHz)
 CPU MHz: 2600
 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: 4x1024MB 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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