



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 254

SPECint2000 = 1947
SPECint_base2000 = 1788

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	91.3	1533	91.3	1533	[Bar chart showing ratio 1533]			
175.vpr	1400	94.2	1487	91.3	1534	[Bar chart showing ratio 1534]			
176.gcc	1100	53.7	2050	53.9	2042	[Bar chart showing ratio 2042]			
181.mcf	1800	150	1204	124	1457	[Bar chart showing ratio 1457]			
186.crafty	1000	55.0	1820	50.3	1989	[Bar chart showing ratio 1989]			
197.parser	1800	104	1737	104	1737	[Bar chart showing ratio 1737]			
252.eon	1300	59.9	2171	42.5	3060	[Bar chart showing ratio 3060]			
253.perlbnk	1800	98.4	1829	90.5	1989	[Bar chart showing ratio 1989]			
254.gap	1100	56.5	1945	56.5	1945	[Bar chart showing ratio 1945]			
255.vortex	1900	66.7	2848	60.8	3125	[Bar chart showing ratio 3125]			
256.bzip2	1500	103	1458	101	1490	[Bar chart showing ratio 1490]			
300.twolf	3000	161	1867	135	2229	[Bar chart showing ratio 2229]			

Hardware

CPU: AMD Opteron (TM) 254 processor (2.80 GHz)
CPU MHz: 2800
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: 4x2048MB 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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