



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 280

SPECint_rate2000 = 38.3
SPECint_rate_base2000 = 35.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	107	30.3	2	107	30.3
175.vpr	2	109	29.8	2	106	30.7
176.gcc	2	62.6	40.8	2	62.7	40.7
181.mcf	2	201	20.7	2	159	26.2
186.crafty	2	64.2	36.2	2	58.5	39.7
197.parser	2	121	34.6	2	121	34.6
252.eon	2	70.4	42.9	2	50.1	60.2
253.perlbnk	2	114	36.5	2	105	39.7
254.gap	2	67.5	37.8	2	67.5	37.8
255.vortex	2	76.8	57.4	2	70.0	63.0
256.bzip2	2	120	28.9	2	119	29.3
300.twolf	2	186	37.5	2	156	44.5

Hardware

CPU: AMD Opteron (TM) 280 processor (2.40 GHz)
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/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
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:SSE2 -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: /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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