



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY BX630, AMD Opteron (TM) 256

SPECint2000 = 2119
SPECint_base2000 = 1942

SPEC license #: 22 Tested by: Fujitsu Siemens Computers Test date: Jul-2006 Hardware Avail: Apr-2006 Software Avail: Jul-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	85.0	1648	87.4	1602	
175.vpr	1400	90.4	1548	89.3	1569	
176.gcc	1100	49.3	2231	49.4	2226	
181.mcf	1800	152	1183	120	1504	
186.crafty	1000	50.9	1964	45.7	2189	
197.parser	1800	98.1	1836	99.0	1818	
252.eon	1300	44.5	2919	35.2	3693	
253.perlbnk	1800	80.5	2237	74.9	2403	
254.gap	1100	52.2	2108	52.2	2107	
255.vortex	1900	64.5	2946	55.1	3446	
256.bzip2	1500	100	1493	94.8	1582	
300.twolf	3000	154	1954	125	2399	

Hardware

CPU: AMD Opteron (TM) 256 processor (3.0 GHz)
CPU MHz: 3000
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
Secondary Cache: 1024KB (I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4x1GB DDR-RAM PC3200R (CAS 3-3-3)
Disk Subsystem: Maxtor DiamondPLUS 9 (SATA)
Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition + SP1
Compiler: Intel C++ 9.1
Build 20060519Z (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: -O3 -Qipo -Qcxx-features +FDO

Peak tuning flags

164.gzip: -O3 -Qipo -QxW +FDO
175.vpr: -O3 -Qipo -QxW -Qoption,c,-ip_ninl_max_stats=2000,
-ip_ninl_max_total_stats=4500 +FDO
176.gcc: -O3 -Qipo -QxW -Oi- -Qunroll3 +FDO shlw32M.lib
181.mcf: -O3 -Qipo -QaxN +FDO shlw32M.lib
186.crafty: -O3 -Qipo -QxW +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
197.parser: -Oi -Qipo -QxW +FDO shlw32M.lib
252.eon: -O3 -Qipo -QxW -Qansi_alias -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
253.perlbnk: -O3 -Qipo -QxW +FDO shlw32M.lib
254.gap: -O3 -Qipo -QxW +FDO shlw32M.lib
255.vortex: -O3 -Qipo -arch:SSE -Oi- -Qoption,c,-ip_ninl_max_stats=2000,
        -ip_ninl_max_total_stats=4500 +FDO shlw32M.lib
256.bzip2: -O3 -Qipo -Qunroll2 shlw32M.lib
300.twolf: -O3 -Qipo -QxW -Qunroll3 -Qansi_alias +FDO shlw32M.lib
```

Boot options: /execute /nopae

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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