



CINT2000 Result

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Fujitsu Siemens Computers
PRIMERGY RX220, AMD Opteron (TM) 256

SPECint2000 = 2111
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	1000 2000 3000 4000			
164.gzip	1400	85.0	1648	87.3	1605	[Bar chart showing ratio 1605]			
175.vpr	1400	90.6	1545	90.3	1551	[Bar chart showing ratio 1551]			
176.gcc	1100	49.1	2241	49.5	2222	[Bar chart showing ratio 2222]			
181.mcf	1800	151	1188	120	1495	[Bar chart showing ratio 1495]			
186.crafty	1000	51.1	1957	45.9	2179	[Bar chart showing ratio 2179]			
197.parser	1800	97.5	1846	98.5	1828	[Bar chart showing ratio 1828]			
252.eon	1300	44.7	2907	35.2	3696	[Bar chart showing ratio 3696]			
253.perlbnk	1800	80.3	2243	74.8	2405	[Bar chart showing ratio 2405]			
254.gap	1100	51.6	2130	52.0	2115	[Bar chart showing ratio 2115]			
255.vortex	1900	65.2	2914	55.9	3397	[Bar chart showing ratio 3397]			
256.bzip2	1500	101	1480	95.8	1566	[Bar chart showing ratio 1566]			
300.twolf	3000	153	1960	126	2383	[Bar chart showing ratio 2383]			

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: 4x2GB DDR-RAM PC3200R (CAS 3-3-3)
Disk Subsystem: Seagate ST380013AS (SATA, 80GB, 7.2krpm)
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

This result was measured with 32-bit binaries using the 32-bit version of the operating system.

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