CINT2000 Result

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Fujitsu Siemens Computers

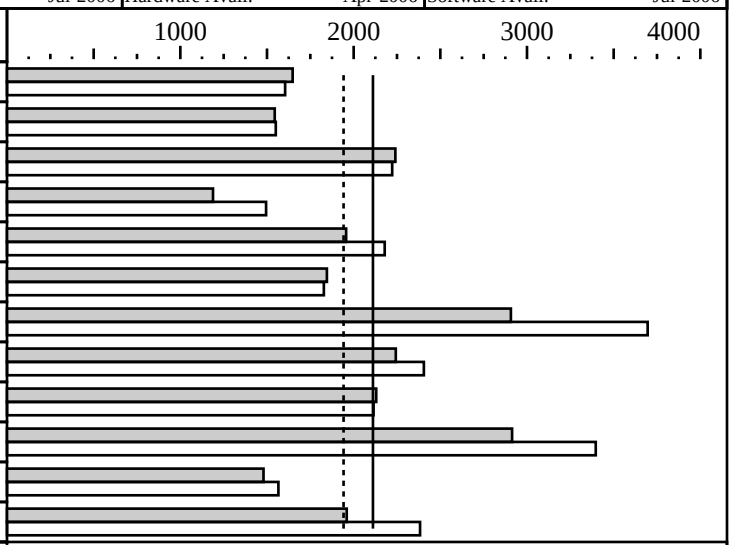
PRIMERGY RX220, AMD Opteron (TM) 256

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
164.gzip	1400	85.0	1648	87.3	1605
175.vpr	1400	90.6	1545	90.3	1551
176.gcc	1100	49.1	2241	49.5	2222
181.mcf	1800	151	1188	120	1495
186.crafty	1000	51.1	1957	45.9	2179
197.parser	1800	97.5	1846	98.5	1828
252.eon	1300	44.7	2907	35.2	3696
253.perlbmk	1800	80.3	2243	74.8	2405
254.gap	1100	51.6	2130	52.0	2115
255.vortex	1900	65.2	2914	55.9	3397
256.bzip2	1500	101	1480	95.8	1566
300.twolf	3000	153	1960	126	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.perlbmk: -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.perlbmk: -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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http://www.fujitsu-siemens.com/countries
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