CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

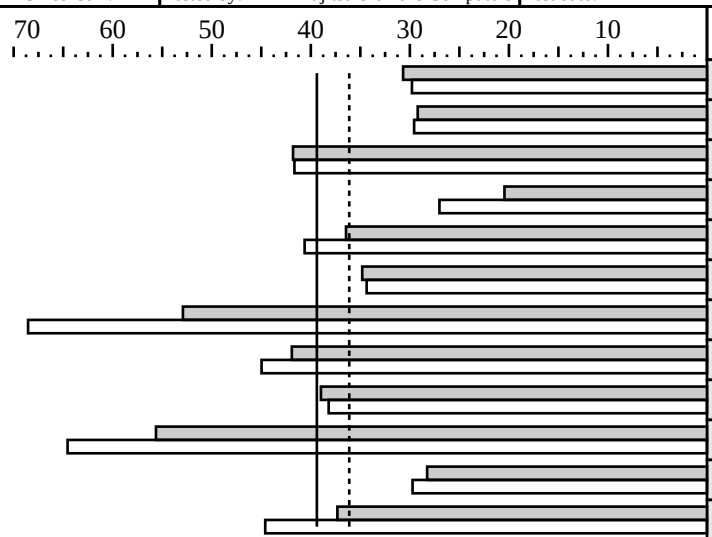
Fujitsu Siemens Computers

PRIMERGY RX220, AMD Opteron (TM) 280

SPECint_rate2000 = 39.4

SPECint_rate_base2000 = 36.1

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jul-2006 | Hardware Avail: Dec-2005 | Software Avail: Jul-2006



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	106	30.7	2	109	29.8
175.vpr	2	111	29.2	2	110	29.6
176.gcc	2	61.1	41.8	2	61.3	41.7
181.mcf	2	204	20.4	2	155	27.0
186.crafty	2	63.7	36.4	2	57.1	40.6
197.parser	2	120	34.8	2	122	34.4
252.eon	2	57.0	52.9	2	44.0	68.5
253.perlbmk	2	99.6	41.9	2	92.9	45.0
254.gap	2	65.5	39.0	2	66.8	38.2
255.vortex	2	79.2	55.6	2	68.3	64.6
256.bzip2	2	123	28.3	2	117	29.7
300.twolf	2	187	37.3	2	156	44.6

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:	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
```

Copyright ©1999-2005, Standard Performance Evaluation Corporation

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


    'start /b /wait /affinity' command is used to bind CPU(s) to processes

    boot options:  /execute /nopae /USEPMTIMER

    BIOS settings: Memory timing=1T

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

    For information about Fujitsu Siemens Computers in your country please see:
    http://www.fujitsu-siemens.com/countries
```