CINT2000 Result

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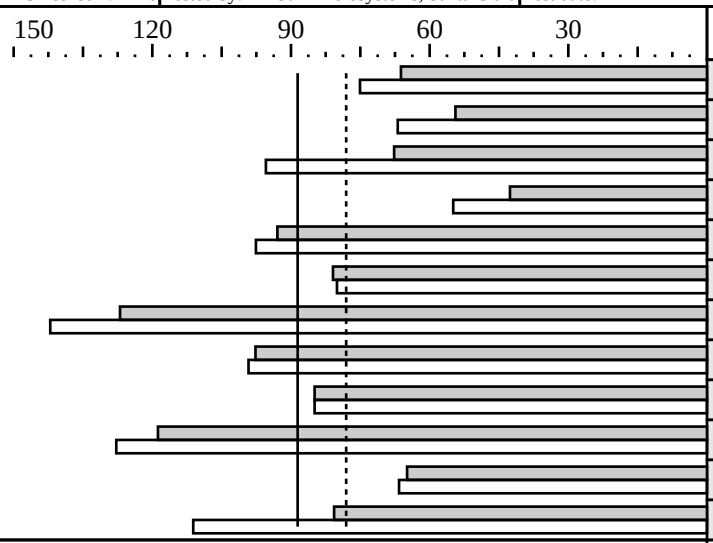
Sun Microsystems
Sun Fire V40z

SPECint_rate2000 = 88.6

SPECint_rate_base2000 = 78.1

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Apr-2006 | Hardware Avail: May-2006 | Software Avail: Sep-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	98.1	66.2	4	86.5	75.1
175.vpr	4	119	54.4	4	97.1	66.9
176.gcc	4	75.4	67.7	4	53.5	95.4
181.mcf	4	196	42.6	4	152	54.9
186.crafty	4	49.9	92.9	4	47.5	97.6
197.parser	4	103	80.9	4	104	80.1
252.eon	4	47.5	127	4	42.5	142
253.perlbmk	4	85.5	97.7	4	84.2	99.2
254.gap	4	60.1	84.9	4	60.1	84.9
255.vortex	4	74.2	119	4	69.0	128
256.bzip2	4	107	64.9	4	104	66.6
300.twolf	4	173	80.7	4	125	111

Hardware

CPU:	AMD Opteron (TM) 856
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	2,4 (order by # of chips)
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:	16GB (8x2GB, PC3200 CL3 DDR ECC Registered SDRAM)
Disk Subsystem:	SCSI,72GB,10K RPM
Other Hardware:	None

Software

Operating System:	Windows Server 2003 Enterprise Edition (SP1)
Compiler:	Intel C++ 9.0 build 20050912Z for IA32 Microsoft Visual Studio .NET 7.0.9466 (libraries) MicroQuill Smartheap Library 7.0
File System:	NTFS
System State:	default

Notes/Tuning Information

```
  GENERAL:
  shlW32M.lib is the SmartHeap library V7.0 from MicroQuill (www.microquill.com)
  +FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
  Portability:
    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
  Baseline C:   -O3 -Qipo -Op +FDO
  Baseline C++: -O3 -Qipo -Qcxx-features +FDO
 Peak Tuning:
  164.gzip:     -O3 -Qipo -QxW +FDO
  175.vpr:      -O3 -Qipo -QxW +FDO
                -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
  176.gcc:      -O3 -Qipo -QxW -Oi- -Qunroll3 +FDO
  181.mcf:      -O3 -Qipo -QaxN      +FDO
  186.crafty:   -O3 -Qipo -QxW +FDO
  197.parser:   -QxW +FDO -Oi- -Qipo
  252.eon:      -O3 -Qipo -QxW +FDO -Qansi_alias
               -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
```

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Notes/Tuning Information (Continued)

```
  253.perlbmk:  -O3 -Qipo -QxW +FDO
  254.gap:       basepeak = yes
  255.vortex:   -O3 -Qipo -arch:SSE  +FDO -Oi- shlW32M.lib
                -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
  256.bzip2:    -O3 -Qipo               -Qunroll2
  300.twolf:    -O3 -Qipo -QxW +FDO     -Qunroll3 shlW32M.lib -Qansi_alias

'start /b /wait /affinity' command is used to bind CPU(s) to processes
Default BIOS setting was used
Half memory slots populated on all CPU(s) in dual-channel configuration.
```