CINT2000 Result

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Supermicro

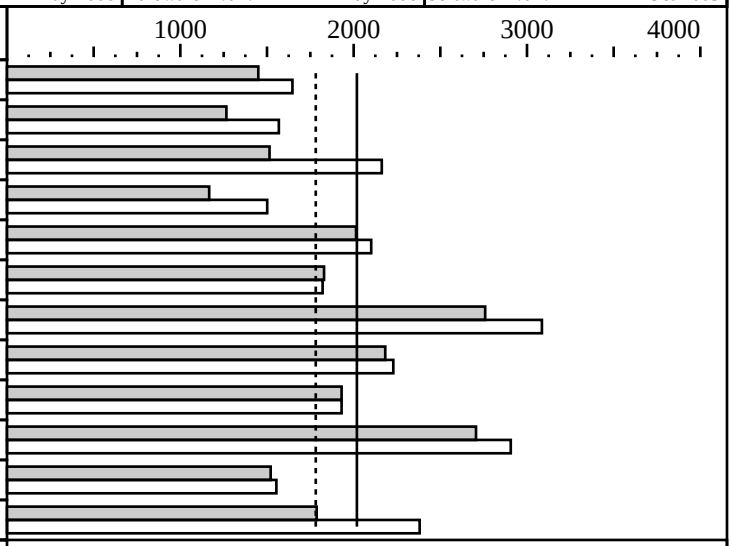
H8QC8 Motherboard (AMD Opteron(TM) 856)

SPECint2000 = 2019

SPECint_base2000 = 1781

SPEC license #01176 | Tested by: Supermicro | Test date: May-2006 | Hardware Avail: May-2006 | Software Avail: Oct-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	96.6	1450	85.0	1647
175.vpr	1400	111	1266	89.3	1568
176.gcc	1100	72.6	1515	50.9	2162
181.mcf	1800	154	1166	120	1501
186.crafty	1000	49.7	2014	47.6	2101
197.parser	1800	98.4	1829	98.9	1821
252.eon	1300	47.1	2759	42.1	3086
253.perlbmk	1800	82.5	2182	80.8	2229
254.gap	1100	57.0	1930	57.0	1930
255.vortex	1900	70.2	2706	65.4	2906
256.bzip2	1500	98.6	1521	96.5	1554
300.twolf	3000	168	1787	126	2381



Hardware

CPU:	AMD Opteron(TM) 856
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1, 2, 3, 4 chips
Parallel:	no
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x2086MB, DDR-400 CL3 ECC Reg
Disk Subsystem:	1 X IDE, Seagate , 80 GB
Other Hardware:	None

Software

Operating System:	Windows server 2003 Enterprise Edition 32-bit Version w/ Service Pack 1
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

```
Tested by Supermicro
  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
Tested system was built with chassis SC748S-R1000,
Product description located as of:
http://www.supermicro.com/Aplus/motherboard/Opteron/nForce/H8QC8.cfm
To ensure system stability, a 1000W (minimum) ATX power supply [8-pin (+12V), 8-pin (+12V) and 24-pin are required]
```