CINT2000 Result

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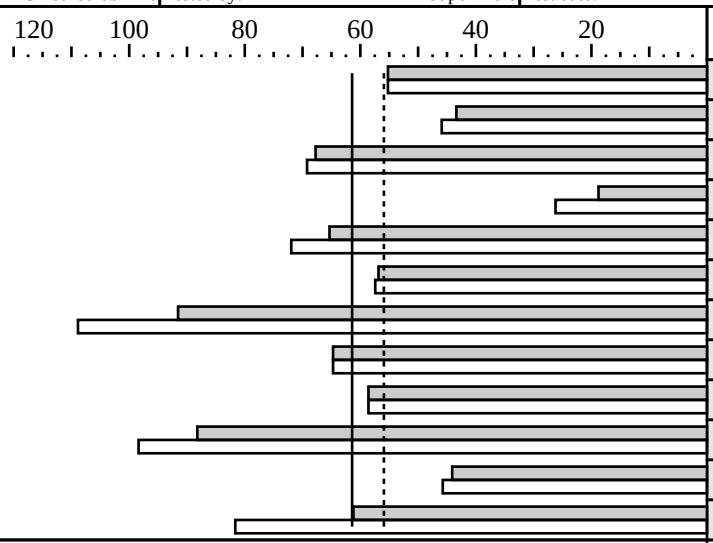
Supermicro
H8DAR-T/E (AMD Opteron (TM) 275)

SPECint_rate2000 = 61.4

SPECint_rate_base2000 = 55.9

SPEC license #01176 | Tested by: Supermicro | Test date: May-2005 | Hardware Avail: Mar-2005 | Software Avail: Jul-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	118	55.2	4	118	55.2
175.vpr	4	150	43.4	4	141	45.9
176.gcc	4	75.3	67.7	4	73.7	69.2
181.mcf	4	445	18.8	4	319	26.2
186.crafty	4	71.0	65.3	4	64.5	72.0
197.parser	4	147	56.9	4	145	57.4
252.eon	4	65.9	91.5	4	55.4	109
253.perlbmk	4	129	64.7	4	129	64.7
254.gap	4	87.1	58.6	4	87.1	58.6
255.vortex	4	99.9	88.2	4	89.6	98.4
256.bzip2	4	158	44.1	4	152	45.7
300.twolf	4	227	61.2	4	171	81.6

Hardware

CPU:	AMD Opteron (TM) 275
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/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:	8 x 1024MB PC3200 REG ECC CL3 DDR SDRAM
Disk Subsystem:	1 X 300GB IDE
Other Hardware:	None

Software

Operating System:	Windows Enterprise Server 2003
Compiler:	Intel C++ 8.0 build 20040714Z 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
  shlW32M7.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:   -fast -arch:SSE2 -Oi- +FDO
  Baseline C++: -fast -arch:SSE2 -GX -GR
 Peak Tuning:
  164.gzip:     basepeak=yes
  175.vpr:      -fast -arch:SSE2 +FDO
                -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
  176.gcc:      -fast -arch:SSE2 +FDO -Oi- -Qunroll3
  181.mcf:      -fast -QaxN      +FDO
  186.crafty:   -fast -arch:SSE2 +FDO
  197.parser:         -arch:SSE2 +FDO -Oi- -Qipo
  252.eon:      -fast -arch:SSE2 +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:  basepeak=yes
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE  +FDO -Oi- shlW32M7.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -fast                        -Qunroll2
300.twolf:    -fast -arch:SSE2 +FDO        -Qunroll3 shlW32M7.lib -Qansi_alias
Tested system can be used with a 420W (minimum) ATX power supply
```