



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.perlbnk	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.perlbnk: -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.perlbnk: 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
```