



CINT2000 Result

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Supermicro H8DS8 Motherboard

SPECint2000 = 1872
SPECint_base2000 = 1777

SPEC license #01176 Tested by: Supermicro Test date: Oct-2005 Hardware Avail: Oct-2005 Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	91.7	1527	91.7	1527	
175.vpr	1400	97.6	1434	95.0	1474	
176.gcc	1100	54.6	2016	54.3	2024	
181.mcf	1800	160	1123	134	1345	
186.crafty	1000	55.2	1811	50.1	1994	
197.parser	1800	106	1703	106	1704	
252.eon	1300	50.8	2558	43.3	3005	
253.perlbnk	1800	96.5	1866	96.5	1866	
254.gap	1100	57.4	1917	57.4	1917	
255.vortex	1900	69.7	2726	73.1	2598	
256.bzip2	1500	106	1411	105	1430	
300.twolf	3000	163	1839	134	2233	

Hardware

CPU: AMD Opteron (TM) 254
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 2x Kingston 2GB, Registered, ECC, DDR400, CL3
 Disk Subsystem: 1X Hitachi SATA 400 GB 7200RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition w/ SP1
 Compiler: Intel C++ 8.0 build 20040415Z for IA32
 Microsoft Visual Studio .NET 7.0.9466 (libraries)
 MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: default

Notes/Tuning Information

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.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDDL /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 -Oi- -Qunroll3 +FDO

181.mcf: -fast -QaxN +FDO

186.crafty: -fast -arch:SSE2 +FDO

197.parser: -arch:SSE2 -Oi- -Qipo +FDO

252.eon: -fast -arch:SSE2 -Qansi_alias +FDO

-Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500

253.perlbnk: basepeak=yes

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Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex:   -fast -arch:SSE -Oi- +FDO shlW32M.lib
              -Qoption,c,-ip_ninl_max_stats=2000,-ip_ninl_max_total_stats=4500
256.bzip2:    -fast -Qunroll2
300.twolf:    -fast -arch:SSE2 -Qunroll3 -Qansi_alias +FDO shlW32M.lib
The system under test can be built with an ATX 500W power supply
```