



CINT2000 Result

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Supermicro
H8DAR-T/E (AMD Opteron (TM) 252)

SPECint2000 = 1791
SPECint_base2000 = 1670

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	97.7	1433	97.7	1433	
175.vpr	1400	102	1377	97.4	1437	
176.gcc	1100	58.4	1883	58.0	1897	
181.mcf	1800	170	1062	133	1351	
186.crafty	1000	59.8	1672	54.5	1836	
197.parser	1800	112	1604	112	1611	
252.eon	1300	54.8	2373	46.7	2784	
253.perlbnk	1800	105	1721	105	1721	
254.gap	1100	60.4	1822	60.4	1822	
255.vortex	1900	74.6	2547	68.3	2780	
256.bzip2	1500	111	1354	108	1386	
300.twolf	3000	173	1732	144	2080	

Hardware

CPU: AMD Opteron (TM) 252
 CPU MHz: 2600
 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: 4 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
```