



CINT2000 Result

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Einix
A4800

SPECint_rate2000 = 12.2

SPECint_rate_base2000 = 11.5

SPEC license #: 49 | Tested by: AMD Austin TX | Test date: Apr-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	161	10.1	1	155	10.5
175.vpr	1	162	10.0	1	160	10.1
176.gcc	1	106	12.1	1	94.6	13.5
181.mcf	1	305	6.85	1	274	7.63
186.crafty	1	91.4	12.7	1	91.4	12.7
197.parser	1	189	11.0	1	187	11.2
252.eon	1	114	13.2	1	96.0	15.7
253.perlbnk	1	172	12.2	1	158	13.2
254.gap	1	100	12.7	1	100.0	12.8
255.vortex	1	122	18.1	1	122	18.1
256.bzip2	1	170	10.2	1	161	10.8
300.twolf	1	292	11.9	1	253	13.7

Hardware

CPU: AMD Opteron 142, 1.6 GHz
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1,2,4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x512MB PC2700 DDR ECC Registered SDRAM CL2.5
 Disk Subsystem: IDE 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise Edition
 Compiler: Intel C/C++ 7.0 build 20021212Z
 Microsoft Visual Studio .NET (libraries)7.0.9466
 MicroQuill SmartHeap Library 6.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

shlw32M6.lib is the SmartHeap library V6.0 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:

+FD0 -O3 -QxW -Qipo

Baseline C++:

+FD0 -Qipo -GX -GR

Peak tuning:

164.gzip: +FD0 -O3 -QaxK -Qipo -Oi-
 175.vpr: +FD0 -O3 -QxW -Qipo
 176.gcc: +FD0 -O3 -QxK -Qipo -Oi-
 181.mcf: +FD0 -Qipo -Oa
 186.crafty: +FD0 -O3 -QxW -Qipo
 197.parser: +FD0 -O3 -QxW -Qipo -Oa
 252.eon: +FD0 -O3 -QaxW -Qipo -Zp4
 253.perlbnk: +FD0 -O3 -Qipo -Oa shlw32M6.lib
 254.gap: +FD0 -O3 -QxW -Qipo
 255.vortex: basepeak=1



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Notes/Tuning Information (Continued)

256.bzip2: +FD0 -Qipo -Oa -Qunroll1
300.twolf: +FD0 -Qxi -Qipo shlw32M6.lib
ONESTEP is used for all base and peak runs