



CINT2000 Result

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**Einix
A4800**

SPECint_rate2000 = 24.0

SPECint_rate_base2000 = 22.5

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	2	162	20.0	2	156	20.8
175.vpr	2	162	20.0	2	161	20.1
176.gcc	2	115	22.3	2	95.9	26.6
181.mcf	2	309	13.5	2	298	14.0
186.crafty	2	91.4	25.4	2	91.4	25.4
197.parser	2	198	21.1	2	193	21.6
252.eon	2	114	26.5	2	96.4	31.3
253.perlbnmk	2	173	24.1	2	158	26.5
254.gap	2	104	24.6	2	104	24.6
255.vortex	2	123	35.7	2	123	35.7
256.bzip2	2	172	20.2	2	163	21.4
300.twolf	2	295	23.6	2	253	27.5

Hardware

CPU: AMD Opteron 242, 1.6 GHz
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 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: 8x512MB 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

+FD0: PASS1=-Qprof_gen PASS2=-Qprof_use

Portability:

176.gcc: -Dalloca=_alloca /F10000000
 186.crafty: -DNT_i386
 253.perlbnmk: -DSPEC_CPU2000_NTOS -DPERLDLL /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.perlbnmk: +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