



CINT2000 Result

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**Einix
A4800**

SPECint_rate2000 = 48.5

SPECint_rate_base2000 = 46.1

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	4	146	44.5	4	142	45.6
175.vpr	4	162	40.1	4	161	40.3
176.gcc	4	115	44.4	4	90.1	56.6
181.mcf	4	386	21.6	4	496	16.8
186.crafty	4	81.5	56.9	4	81.5	56.9
197.parser	4	197	42.4	4	199	42.0
252.eon	4	101	59.7	4	85.4	70.6
253.perlbnk	4	160	52.1	4	144	57.9
254.gap	4	101	50.5	4	100	51.0
255.vortex	4	120	73.6	4	120	73.6
256.bzip2	4	175	39.8	4	165	42.1
300.twolf	4	285	48.8	4	225	61.9

Hardware

CPU: AMD Opteron 844, 1.8 GHz
CPU MHz: 1800
FPU: Integrated
CPU(s) enabled: 4 cores, 4 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: 16x512MB 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.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