



CINT2000 Result

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Appro 4144H

SPECint_rate2000 = 56.7

SPECint_rate_base2000 = 53.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	131	49.5	4	128	50.7
175.vpr	4	144	45.1	4	144	45.1
176.gcc	4	97.4	52.4	4	80.7	63.2
181.mcf	4	255	32.8	4	255	32.8
186.crafty	4	73.6	63.0	4	73.6	63.0
197.parser	4	160	52.2	4	161	51.9
252.eon	4	90.6	66.6	4	77.2	78.1
253.perlbnk	4	144	58.0	4	129	64.5
254.gap	4	85.6	59.6	4	85.5	59.7
255.vortex	4	108	82.0	4	108	82.0
256.bzip2	4	166	41.8	4	164	42.4
300.twolf	4	264	52.8	4	205	67.9

Hardware

CPU: AMD Opteron (TM) 846
 CPU MHz: 2000
 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: 8x512MB Registered ECC DDR 333, CL2.5
 Disk Subsystem: SCSI, U160, 18GB, 15k RPM
 Other Hardware: None

Software

Operating System: Microsoft Windows 2003 Server Enterprise Edition
 Compiler: Intel C/C++ 7.0 build 20021212Z
 Microsoft Visual Studio .NET 7.0.9466 (for libraries)
 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 -DPERLDLL /MT
 254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

Baseline C:

+FDO -O3 -QxW -Qipo

Baseline C++:

+FDO -Qipo -GX -GR

Peak tuning:

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



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Notes/Tuning Information (Continued)

256.bzip2: +FDO -Qipo -Oa -Qunroll1
300.twolf: +FDO -Qxi -Qipo shlw32M6.lib
ONESTEP is used for all base and peak runs
ECC on, ECC scrubbing off