



CINT2000 Result

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IBM

AMD Opteron LS20 for IBM eServer Blade Center (AMD Opteron (TM) 252)

SPECint2000 = 1753

SPECint_base2000 = 1559

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Apr-2005 | Hardware Avail: Apr-2005 | Software Avail: Jan-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	89.6	1563	89.9	1557	
175.vpr	1400	113	1241	110	1278	
176.gcc	1100	61.9	1776	61.4	1792	
181.mcf	1800	252	714	155	1162	
186.crafty	1000	45.2	2210	44.0	2272	
197.parser	1800	169	1067	125	1440	
252.eon	1300	54.1	2403	49.7	2618	
253.perlbnk	1800	104	1725	92.5	1945	
254.gap	1100	66.7	1650	65.2	1687	
255.vortex	1900	75.1	2529	67.6	2809	
256.bzip2	1500	105	1433	105	1433	
300.twolf	3000	210	1429	167	1792	

Hardware

CPU: AMD Opteron 252
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB (I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x2048MB, DDR400
 Disk Subsystem: SCSI, 36GB 10K RPM
 Other Hardware: None

Software

Operating System: SuSE Linux 9.0 SLES 64 bit Kernel 2.6.5-7.139-smp (SP1)
 Compiler: PathScale EKO Compiler Suite, Release 2.0
 File System: Linux/reiserfs
 System State: Multi-user, run level 3

Notes/Tuning Information

Tested by IBM Corporation

+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata

Baseline optimization flags:

C programs: -Ofast +FDO
 C++ programs: -Ofast +FDO

Portability Flags:

181.mcf: -DWANT_STDC_PROTO
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 srcalt fmax_errno
 253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
 -DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
 254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
 -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI
 -DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64
 srcalt=closed_files



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Notes/Tuning Information (Continued)

300.twolf: -DHAVE_SIGNED_CHAR

Peak Tuning:

164.gzip: -O3 -ipa -m3dnow -WOPT:val=0 +FDO

175.vpr: -O2 -ipa -OPT:alias=disjoint

-CG:p2align_freq=500000 -INLINE:aggressive=on

-IPA:space=300:plimit=10000:callee_limit=5000:linear=on

+FDO

176.gcc: -O3 -ipa -OPT:goto=off +FDO

181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO

186.crafty: -O3 -OPT:goto=off +FDO

197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO

252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off

-OPT:treeheight=on -TENV:X=4:frame_pointer=off

-fno-exceptions -LNO:fu=10:full_unroll_outer=on

-IPA:plimit=4000 +FDO

253.perlbnk: -Ofast -OPT:transform_to_memlib=off -IPA:plimit=10000 +FDO

254.gap: -Ofast -WOPT:aggstr=0 +FDO

255.vortex: -Ofast -OPT:goto=off -IPA:plimit=1800 -CG:p2align=on

+FDO

256.bzip2: basepeak=TRUE

300.twolf: -O2 -CG:gcm=off:p2align_freq=100000

-OPT:Ofast:unroll_times=8:unroll_size=256:alias=disjoint

-WOPT:mem_opnds=on -m32 +FDO