Hewlett-Packard Company
ProLiant DL385 (AMD Opteron (TM) 280)

SPECint_rate2000 = 37.0
SPECint_rate_base2000 = 33.2

Hewlett-Packard Company
Tested by: Hewlett-Packard Company
Test date: Aug-2005
Hardware Avail: Sep-2005
Software Avail: Apr-2005

Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio
--- | --- | --- | --- | --- | --- | ---
164.gzip | 2 | 96.0 | 33.8 | 2 | 97.1 | 33.5
175.vpr | 2 | 125 | 26.0 | 2 | 120 | 27.0
176.gcc | 2 | 67.8 | 37.6 | 2 | 65.6 | 39.8
181.mcf | 2 | 320 | 13.1 | 2 | 200 | 20.9
186.crafty | 2 | 49.2 | 47.1 | 2 | 48.0 | 20.9
197.parser | 2 | 162 | 25.8 | 2 | 134 | 31.3
252.eon | 2 | 57.0 | 52.9 | 2 | 51.7 | 58.4
253.perlbmk | 2 | 113 | 37.1 | 2 | 99.0 | 42.2
254.gap | 2 | 75.0 | 34.0 | 2 | 72.7 | 35.1
255.vortex | 2 | 80.1 | 55.0 | 2 | 76.0 | 58.0
256.bzip2 | 2 | 114 | 30.5 | 2 | 114 | 30.5
300.twolf | 2 | 231 | 30.2 | 2 | 179 | 39.0

Notes/Tuning Information

+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
Base tuning for C programs: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 1
Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1
File System: Linux/ext2
System State: Multi-user run level 3

Hardware

CPU: AMD Opteron (TM) 280
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 64KBI + 64KBD (on chip) per core
Secondary Cache: 1024KB(I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 4x2048MB PC3200 CL3.0
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) SP 1
Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1
File System: Linux/ext2
System State: Multi-user run level 3

Notes/Tuning Information

+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
Base tuning for C programs: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO

Portability flags:
176.gcc: srcalt=64bitgcc
186.crafty: -DLINUX_I386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt=fmax_errno
253.perlbmk: -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_MALLOC_PROTO -DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64 srcalt=closed_files

Peak tuning:
164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
-INLINE:aggressive=on
-IPA:space=300:plimit=10000:calllee_limit=5000:linear=on +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
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Notes/Tuning Information (Continued)

197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
            -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
            -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbmk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
            -fno-math-errno -IPA:plimit=10000 +FDO
254.gap: -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex: -Ofast -OPT:goto=off +FDO
256.bzip2: basepeak=true
300.twolf: -O2 -CG:gcm=off:p2align_freq=100000
            -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
            -WOPT:mem_opnds=on -m32 +FDO

BIOS Configuration Notes
Node Interleaving Disabled
Other Configuration Notes
Taskset utility used to bind process to CPU(s)