GLIBC support for Xtensa

Testing

- https://sourceware.org/glibc/wiki/Release/2.26
- https://fossies.org/linux/glibc/math/README.libm-test

Testsuite results

Testsuite may be run natively (on linux system running on hardware or in system emulation) or on linux-user emulation. First is very accurate, but slow. Second is fast (10h wall clock for all tests) but not so accurate.

Native test failures

- FAIL: conform/POSIX2008/fcntl.h/linknamespace
- FAIL: conform/POSIX2008/mqueue.h/linknamespace
- FAIL: conform/POSIX2008/sys/stat.h/conform
- FAIL: conform/XOPEN2K8/fcntl.h/linknamespace
- FAIL: conform/XOPEN2K8/mqueue.h/linknamespace
- FAIL: conform/XOPEN2K8/sys/stat.h/conform
- FAIL: conform/XOPEN2K/fcntl.h/linknamespace
- FAIL: conform/XOPEN2K/mqueue.h/linknamespace
- FAIL: debug/backtrace-tst
- FAIL: debug/tst-backtrace2
- FAIL: debug/tst-backtrace3
- FAIL: debug/tst-backtrace4
- FAIL: debug/tst-backtrace5
- FAIL: debug/tst-backtrace6
- FAIL: debug/tst-longjmp_chk2
- FAIL: dlfcn/default
    - output looks good, works if run manually
- FAIL: iconvdata/mtrace-tst-loading
- FAIL: iconvdata/tst-loading
- FAIL: io/bug-ftw2
- FAIL: io/ftwtest
- FAIL: io/test-stat2
- FAIL: io/test-utime
- FAIL: io/tst-fts
- FAIL: localedata/mtrace-tst-leaks
- FAIL: localedata/tst-leaks
- FAIL: malloc/tst-dynarray-fail
- FAIL: malloc/tst-dynarray-fail-mem
- FAIL: malloc/tst-mallocstate
- FAIL: misc/tst-clone3

    - bad test?: futex syscall should have 6 arguments
- FAIL: nptl/tst-backtrace1
- FAIL: nptl/tst-cancel21
    - timeout; works if run manually
- FAIL: nptl/tst-cancel7
- FAIL: nptl/tst-cancelx21
    - timeout; works if run manually
- FAIL: nptl/tst-cancelx7
- FAIL: nptl/tst-stack4
    - Timeout, too many threads
- FAIL: posix/tst-getaddrinfo5
- FAIL: stdio-common/bug22
    - bad test?: expected exit status should be 1
- FAIL: stdlib/tst-strtod-round
- FAIL: string/tst-cmp
- FAIL: wcsmbs/tst-wcstod-round

Linux-user test failures

- FAIL: conform/POSIX2008/fcntl.h/linknamespace
- FAIL: conform/POSIX2008/mqueue.h/linknamespace
- FAIL: conform/POSIX2008/sys/stat.h/conform
- FAIL: conform/XOPEN2K/fcntl.h/linknamespace
- FAIL: conform/XOPEN2K/mqueue.h/linknamespace
- FAIL: conform/XOPEN2K8/fcntl.h/linknamespace
- FAIL: conform/XOPEN2K8/mqueue.h/linknamespace
- FAIL: conform/XOPEN2K8/sys/stat.h/conform
- FAIL: debug/backtrace-tst
- FAIL: debug/tst-backtrace2
- FAIL: debug/tst-backtrace3
- FAIL: debug/tst-backtrace4
- FAIL: debug/tst-backtrace5
- FAIL: debug/tst-backtrace6
- FAIL: debug/tst-chk1
- FAIL: debug/tst-chk2
- FAIL: debug/tst-chk3
- FAIL: debug/tst-chk4
- FAIL: debug/tst-chk5
- FAIL: debug/tst-chk6
- FAIL: debug/tst-lfschk1
- FAIL: debug/tst-lfschk2
- FAIL: debug/tst-lfschk3
- FAIL: debug/tst-lfschk4
- FAIL: debug/tst-lfschk5
- FAIL: debug/tst-lfschk6
- FAIL: debug/tst-longjmp_chk2
- FAIL: dirent/list
- FAIL: dirent/tst-scandir
- FAIL: dlfcn/default
- FAIL: elf/check-abi-libc

- FAIL: elf/check-execstack
- FAIL: elf/check-localplt
- FAIL: elf/tst-_dl_addr_inside_object
- FAIL: elf/tst-audit1
- FAIL: elf/tst-audit11
- FAIL: elf/tst-audit12
- FAIL: elf/tst-audit2
- FAIL: elf/tst-audit8
- FAIL: elf/tst-audit9
- UNSUPPORTED: elf/tst-env-setuid
- UNSUPPORTED: elf/tst-env-setuid-tunables
- FAIL: elf/tst-pie2
- FAIL: elf/tst-prelink-cmp
- XPASS: elf/tst-protected1a
- XPASS: elf/tst-protected1b
- FAIL: elf/tst-ptrguard1
- FAIL: elf/tst-ptrguard1-static
- FAIL: elf/tst-stackguard1
- FAIL: elf/tst-stackguard1-static
- FAIL: elf/tst-unused-dep
- FAIL: elf/tst-unused-dep-cmp
- FAIL: elf/vismain
- FAIL: inet/test_ifindex
- [+] FAIL: io/bug-ftw2
- [+] FAIL: io/ftwtest
- [+] FAIL: io/test-stat2
- [+] FAIL: io/test-utime
- [+] FAIL: io/tst-fallocate64
- [+] FAIL: io/tst-fts
- [+] FAIL: io/tst-fts-lfs
- [- openat (“/dev/shm”, O_TMPFILE | O_RDWR): Permission denied] FAIL: io/tst-open-tmpfile
- FAIL: malloc/tst-dynarray-at-fail
- FAIL: malloc/tst-dynarray-fail
- FAIL: malloc/tst-malloc-thread-exit
- FAIL: malloc/tst-malloc-thread-fail
- FAIL: malloc/tst-malloc-usable-tunables
- FAIL: malloc/tst-mallocstate
- FAIL: math/check-abi-libm
- FAIL: math/test-double-finite-fma
- FAIL: math/test-double-fma
- UNSUPPORTED: math/test-fesetexcept-traps
- UNSUPPORTED: math/test-fexcept-traps
- FAIL: math/test-float-finite-fma
- FAIL: math/test-float-fma
- FAIL: math/test-idouble-fma
- FAIL: math/test-ifloat-fma
- UNSUPPORTED: math/test-nearbyint-except
- UNSUPPORTED: math/test-nearbyint-except-2
- FAIL: math/test-tgmath
- FAIL: math/test-tgmath2
- [- QEMU bug: mincore] FAIL: misc/test-errno-linux

- FAIL: misc/tst-clone2
- FAIL: misc/tst-clone3
- [+ QEMU bug preadv/pwritev] FAIL: misc/tst-preadvwritev64
- FAIL: nptl/test-cond-printers
- FAIL: nptl/test-condattr-printers
- FAIL: nptl/test-mutex-printers
- FAIL: nptl/test-mutexattr-printers
- FAIL: nptl/test-rwlock-printers
- FAIL: nptl/test-rwlockattr-printers
- FAIL: nptl/tst-align-clone
- FAIL: nptl/tst-backtrace1
- FAIL: nptl/tst-cond-except
- FAIL: nptl/tst-cond24
- FAIL: nptl/tst-cond25
- FAIL: nptl/tst-create-detached
- [+ QEMU bug] FAIL: nptl/tst-eintr1
- [- QEMU feature: no vfork] FAIL: nptl/tst-exec1
- [- QEMU feature: no vfork] FAIL: nptl/tst-exec5
- FAIL: nptl/tst-getpid1
- FAIL: nptl/tst-robust-fork
- [- QEMU feature] FAIL: nptl/tst-robust1
- [- QEMU feature] FAIL: nptl/tst-robust2
- [- QEMU feature] FAIL: nptl/tst-robust3
- [- QEMU feature] FAIL: nptl/tst-robust4
- [- QEMU feature] FAIL: nptl/tst-robust5
- [- QEMU feature] FAIL: nptl/tst-robust6
- [- QEMU feature] FAIL: nptl/tst-robust7
- [- QEMU feature] FAIL: nptl/tst-robust8
- [- QEMU feature] FAIL: nptl/tst-robust9
- FAIL: nptl/tst-setuid3
- FAIL: nptl/tst-spin2
- FAIL: nptl/tst-stack4
- FAIL: nptl/tst-stackguard1
- FAIL: nptl/tst-stackguard1-static
- [- QEMU feature: do_getsockopt] FAIL: posix/test-errno
- FAIL: posix/tst-getaddrinfo5
- [+ QEMU bug] FAIL: posix/tst-posix_fadvise
- [+ QEMU bug] FAIL: posix/tst-posix_fadvise64
- FAIL: posix/tst-posix_spawn-setsid
- FAIL: posix/tst-spawn
- FAIL: posix/tst-spawn-static
- FAIL: posix/tst-spawn2
- FAIL: posix/tst-spawn3
- UNSUPPORTED: posix/tst-sysconf-empty-chroot
- UNSUPPORTED: resolv/tst-resolv-res_init
- UNSUPPORTED: resolv/tst-resolv-res_init-thread
- UNSUPPORTED: resolv/tst-resolv-threads
- [+ QEMU feature: clock_settime] FAIL: rt/tst-clock2
- [+ QEMU bug] FAIL: rt/tst-mqueue2
- [- QEMU feature: mq_notify] FAIL: rt/tst-mqueue3

- [- QEMU feature: mq_notify] FAIL: rt/tst-mqueue5
- [- QEMU feature: mq_notify] FAIL: rt/tst-mqueue6
- [- QEMU feature: mq_notify] FAIL: rt/tst-mqueue7
- FAIL: stdio-common/bug22
- FAIL: stdio-common/test-vfprintf
- [+] FAIL: stdio-common/tst-vfprintf-width-prec
- [+ GLIBC bug] FAIL: stdlib/tst-makecontext
- [+ GLIBC bug] FAIL: stdlib/tst-setcontext3
- FAIL: string/tst-cmp
- UNSUPPORTED: sunrpc/tst-svc_register
- FAIL: sunrpc/tst-udp-error
- [+ QEMU bug] FAIL: sysvipc/test-sysvsem
- [+ QEMU bug] FAIL: sysvipc/test-sysvshm
- [- Cannot allocate memory] FAIL: timezone/tst-tzset

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