

Documentation | EN

Third party license declarations

for Beckhoff Motion products [spec b]



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FatFs: R0.14

LwIP: 2.1.2

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alt_base.c

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iocsr_config_cyclone5.h, system.h

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sdram_phy.h

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port.c, portCyclone.c, portmacro.h

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libusbinterface.h

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port_asm_vectors.s

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2.3 GCC

bit, execution, memory_resource, version

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charconv

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cxxabi_init_exception.h, exception.h

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invoke.h, lfts_config.h, node_handle.h, std_abs.h, variant

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fs_ops.h

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ordered_base.h

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unordered_base.h

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array, opt_random.h, random, random.tcc

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profiler_algos.h

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exception_ptr.h, initializer_list

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atomic, atomic_base.h, atomic_lockfree_defines.h, cast.h, chrono, condition_variable, extptr_allocator.h, forward_list, forward_list.h, forward_list.tcc, pointer.h, ratio, string_conversions.h, thread, unique_lock.h, unique_ptr.h

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cxxabi_forced.h

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list_partition.h

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algo.h, algobase.h, algorithm, algorithmfwd.h, array, auto_ptr.h, balanced_quicksort.h, base.h, basic_iterator.h, c++0x_warning.h, ccomplex, cfenv, checkers.h, cinttypes, compatibility.h, compiletime_settings.h, complex.h, cstdbool, cstdint, ctgmath, equally_split.h, error_constants.h, features.h, fenv.h, find.h, find_selectors.h, for_each.h, for_each_selectors.h, functional_hash.h, hashtable.h, iterator.h, locale_classes.tcc, locale_facets_nonio.h, locale_facets_nonio.tcc, losertree.h, merge.h, move.h, multiseq_selection.h, multiway_merge.h, multiway_mergesort.h, numeric, numeric_traits.h, numericfwd.h, omp_loop.h, omp_loop_static.h, ostream_insert.h, par_loop.h, parallel.h, partial_sum.h, partition.h, queue.h, quicksort.h, random, random_number.h, random_shuffle.h, regex, search.h, set_operations.h, settings.h, shared_ptr.h, shared_ptr_base.h, sort.h, system_error, tags.h, tgmath.h, tuple, type_traits, types.h, unique_copy.h, unordered_map, unordered_set, workstealing.h

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*assoc_container.hpp, bin_search_tree.hpp, binary_heap.hpp, binomial_heap.hpp,
binomial_heap_base.hpp, branch_policy.hpp, cc_hash_max_collision_check_resize_trigger_imp.hpp,
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const_iterator.hpp, constructor_destructor_fn_imps.hpp,
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null_node_metadata.hpp, order_statistics_imp.hpp, ov_tree_map.hpp, pairing_heap.hpp, pat_trie.hpp,
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resize_fn_imps.hpp, resize_no_store_hash_fn_imps.hpp, resize_policy.hpp,
resize_store_hash_fn_imps.hpp, rotate_fn_imps.hpp, sample_probe_fn.hpp, sample_range_hashing.hpp,
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sample_trie_access_traits.hpp, sample_trie_node_update.hpp, sample_update_policy.hpp,
size_fn_imps.hpp, splay_fn_imps.hpp, splay_tree.hpp, split_fn_imps.hpp, split_join_fn_imps.hpp,
sso_string_base.h, standard_policies.hpp, synth_access_traits.hpp, tag_and_trait.hpp, thin_heap.hpp,
throw_allocator.h, trace_fn_imps.hpp, traits.hpp, tree_policy.hpp, tree_trace_base.hpp, trie_policy.hpp,
trie_policy_base.hpp, trie_string_access_traits_imp.hpp, type_traits.h, type_utils.hpp, typelist.h,
types_traits.hpp, unordered_map, unordered_set, update_fn_imps.hpp, vstring.h, vstring.tcc, vstring_fwd.h,
vstring_util.h*

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node_iterators.hpp

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array, array_allocator.h, atomic_word.h, atomicity.h, bitmap_allocator.h, boost_concept_check.h, c++allocator.h, cxxabi_tweaks.h, functional, refwrap.h, std_function.h, tuple, type_traits, utility
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assertions.h, bitset, concurrence.h, debug.h, deque, formatter.h, functions.h, helper_functions.h, list, macros.h, map, map.h, mt_allocator.h, multimap.h, multiset.h, mutex, safe_base.h, safe_iterator.h, safe_iterator.tcc, safe_sequence.h, set, set.h, std_mutex.h, stdc++.h, stdio_sync_filebuf.h, string, unordered_map, unordered_set, vector
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enc_filebuf.h, functional, math.h, memory, numeric, pod_char_traits.h, rb_tree, stdio_filebuf.h, stdlib.h
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algorithm, allocator.h, backward_warning.h, binders.h, bitset, c++locale.h, ciso646, concept_check.h, debug_allocator.h, deque, deque.tcc, exception_defines.h, funtexcept.h, functional, hash_fun.h, hash_map, hash_set, hashtable.h, iterator, list, list.tcc, malloc_allocator.h, map, memory, memoryfwd.h, messages_members.h, new_allocator.h, numeric, pool_allocator.h, queue, rope, ropeimpl.h, set, slist, stack, stdexcept, stl_algo.h, stl_algobase.h, stl_bvector.h, stl_construct.h, stl_deque.h, stl_function.h, stl_heap.h, stl_iterator.h, stl_iterator_base_funcs.h, stl_iterator_base_types.h, stl_list.h, stl_map.h, stl_multimap.h, stl_multiset.h, stl_numeric.h, stl_pair.h, stl_queue.h, stl_raw_storage_iter.h, stl_set.h, stl_stack.h, stl_tempbuf.h, stl_tree.h, stl_uninitialized.h, stl_vector.h, stream_iterator.h, stringfwd.h, strstream, time_members.h, utility, vector, vector.tcc

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stl_relops.h

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cxxabi.h

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basic_file.h, c++io.h, codecvt.h, codecvt_specializations.h, cpp_type_traits.h, ctype_base.h, ctype_inline.h, os_defines.h

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basic_ios.tcc, limits

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basic_ios.h, basic_string.h, basic_string.tcc, c++config.h, cassert, ctype, cerrno, cfloat, char_traits.h, climits, clocale, cmath, complex, csetjmp, csignal, cstddarg, cstddef, cstdio, cstdlib, cstring, ctime, cwchar, cwctype, fstream, fstream.tcc, gslice.h, gslice_array.h, indirect_array.h, iomanip, ios, ios_base.h, iosfwd, istream, istream.tcc, locale, locale_classes.h, locale_facets.h, locale_facets.tcc, localefwd.h, mask_array.h, ostream, ostream.tcc, postypes.h, slice_array.h, sstream, sstream.tcc, streambuf, streambuf.tcc, streambuf_iterator.h, string, valarray, valarray_after.h, valarray_array.h, valarray_array.tcc, valarray_before.h

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new, typeid

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hash_standard_resize_policy_imp.hpp, info_fn_imps.hpp, insert_fn_imps.hpp, insert_join_fn_imps.hpp, insert_no_store_hash_fn_imps.hpp, insert_store_hash_fn_imps.hpp, iterator.hpp, iterator_fn_imps.hpp, iterators_fn_imps.hpp, left_child_next_sibling_heap.hpp, linear_probe_fn_imp.hpp, list_update_policy.hpp, lu_counter_metadata.hpp, lu_map.hpp, mask_based_range_hashing.hpp, mod_based_range_hashing.hpp, node.hpp, node_iterators.hpp, node_metadata_selector.hpp, null_node_metadata.hpp, order_statistics_imp.hpp, ov_tree_map.hpp, pairing_heap.hpp, pat_trie.hpp, pat_trie_base.hpp, point_const_iterator.hpp, point_iterator.hpp, point_iterators.hpp, policy_access_fn_imps.hpp, prefix_search_node_update_imp.hpp, priority_queue.hpp, priority_queue_base_dispatch.hpp, probe_fn_base.hpp, quadratic_probe_fn_imp.hpp, r_erase_fn_imps.hpp, ranged_hash_fn.hpp, ranged_probe_fn.hpp, rb_tree.hpp, rc.hpp, rc_binomial_heap.hpp, resize_fn_imps.hpp, resize_no_store_hash_fn_imps.hpp, resize_policy.hpp, resize_store_hash_fn_imps.hpp, rotate_fn_imps.hpp, sample_probe_fn.hpp, sample_range_hashing.hpp, sample_ranged_hash_fn.hpp, sample_ranged_probe_fn.hpp, sample_resize_policy.hpp, sample_resize_trigger.hpp, sample_size_policy.hpp, sample_tree_node_update.hpp, sample_trie_access_traits.hpp, sample_trie_node_update.hpp, sample_update_policy.hpp, size_fn_imps.hpp, splay_fn_imps.hpp, splay_tree.hpp, split_fn_imps.hpp, split_join_fn_imps.hpp, standard_policies.hpp, synth_access_traits.hpp, tag_and_trait.hpp, thin_heap.hpp, throw_allocator.h, trace_fn_imps.hpp, traits.hpp, tree_policy.hpp, tree_trace_base.hpp, trie_policy.hpp, trie_policy_base.hpp, trie_string_access_traits_imp.hpp, type_utils.hpp, typelist.h, types_traits.hpp, update_fn_imps.hpp

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shared_ptr.h, shared_ptr_base.h

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boost_concept_check.h

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memory

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stl_bvector.h

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bitset, ostream

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binders.h, hash_fun.h, iterator, stl_algobase.h, stl_function.h, stl_iterator.h, stl_iterator_base_funcs.h, stl_iterator_base_types.h

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deque, deque.tcc, functional, rope, ropeimpl.h, slist, stl_deque.h, stl_heap.h

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stl_relops.h

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algorithm, hashtable.h, iterator, list, list.tcc, map, numeric, queue, set, splay_tree.hpp, stack, stl_construct.h, stl_list.h, stl_map.h, stl_multimap.h, stl_numeric.h, stl_pair.h, stl_queue.h, stl_set.h, stl_stack.h, stl_tempbuf.h, stl_tree.h, stl_uninitialized.h, utility

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allocator.h, debug_allocator.h, memoryfwd.h, pool_allocator.h

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2.4 LwIP

altcp_proxyconnect.c, altcp_proxyconnect.h, dhcp6.c, dhcp6.h, ieee802154.h, zepif.h

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mem_priv.h

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iana.h, ieee.h

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if.h, if_api.c, if_api.h, sockets_priv.h

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dhcp6.h

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ip6_zone.h

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lowpan6_ble.h

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snmpv3.h

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snmp_opts.h

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lowpan6.h, lowpan6_common.h, lowpan6_opts.h

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mdns.c, mdns.h, mdns_opts.h, mdns_priv.h

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sntp.c, sntp.h, sntp_opts.h

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md5.c, md5.h

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autoip.c, autoip.h

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snmp_core.h

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etharp.c, etharp.h, ethernet.c, ethernet.h

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dhcpc.c, dhcpc.h

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dns.c, dns.h

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dns.h

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ppp_impl.h

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2.5 Newlib and GCC Libraries

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devctl.h

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math_config.h, math_errf.c, sf_pow.c

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strsignal.c

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memchr-stub.c, memchr.S, memcpy-stub.c, strlen-armv7.S, strlen-thumb1-Os.S, strlen-thumb2-Os.S, strlen.S

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aligned_alloc.c

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gnu_basename.c

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memcpy.S

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_pthreadtypes.h, pthread.h

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acle-compat.h, aeabi_memcpy-armv7a.S, aeabi_memcpy.c, strcmp-armv6m.S

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timingsafe_memcpy.c

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memcpy-armv7m.S

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fruncate.c, truncate.c

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strlen-armv7.S

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rdimon-aem.S

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wordexp2.h

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stdatomic.h

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strtoimax.c, strtoumax.c, wcstoimax.c, wcstoumax.c

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timingsafe_bcmp.c

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conjl.c, cproj.c, cprojf.c, cprojl.c

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sched.h

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xdr_private.c, xdr_private.h

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posix_spawn.c, spawn.h

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reallocarray.c

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arc4random_uniform.c

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asnprintf.c, asnprintf.c, vasnprintf.c

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nearbyintf4.h, rintf4.h, scalbnf4.h

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fmemopen.c, fopencookie.c, funopen.c, open_memstream.c, vasnprintf.c

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sqr1.c

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dom_chkd_less_than.h, dom_chkd_negone_one.h, dom_chkf_less_than.h, dom_chkf_negone_one.h

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diprintf.c

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dprintf.c, vdprintf.c, vdprintf.c

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asprintf.c, fread.c, freopen.c, fwrite.h, local.h, makebuf.c, snprintf.c, snprintf.c, swprintf.c, vasprintf.c, vasprintf.c, vsnprintf.c, wsetup.c

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linux-crt0.c, linux-syscall.h, linux-syscalls0.S, linux-syscalls1.c

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basename.c, dirname.c

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_intsup.h, _stdint.h, inttypes.h, stdint.h

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argz_insert.c

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init.c

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aliases.c, ccs.h, endian.h, iconvnl.c, iconvnl.h, local.h, us-ascii.c

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wcsnlen.c

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_timeval.h, strings.h

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redboot-syscalls.c

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locale.c

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langinfo.h, lmessages.c, nl_langinfo.c

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hcreate.c, hcreate_r.c

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namespace.h, un-namespace.h

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imaxabs.c, imaxdiv.c, labs.c, lldiv.c

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lmonetary.c, lnumeric.c

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strtod.c, strtodg.c

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timelocal.c

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gdt0a-hexnan.c

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strtorx.c

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getenv.c

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ldtoa.c

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strlcat.c, strlcpy.c, wcsncpy.c, wcsnlen.c

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gdtoa-gethex.c, gdtoa.h

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debug.c, debug.h

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collate.c, collate.h

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rune.h, runetype.h

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s_remquo.c, sf_remquo.c

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regex.h

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qsort.c

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fnmatch.h

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ar.h

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cdefs.h, queue.h

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getsubopt.c, hash_func.c

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ndbm.c, ndbm.h, wcscmp.c

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strcasesstr.c

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grp.h

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dirent.h, wcsncmp.c

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glob.c, glob.h

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atoll.c, syslimits.h

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sysexits.h

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scandir.c

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_sigset.h

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_timespec.h, time.h

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timespec.h

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unctrl.c, unctrl.h

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setjmp-dj.h

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dtoa.c, mprec.c, mprec.h, vfieeefp.h

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getcwd.c

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putenv_r.c

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getenv_r.c, setenv_r.c

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flags.c

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div.c, ldiv.c, strtoul.c, strtoull.c, wcstoul.c, wcstoull.c

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rewinddir.c, strtol.c, strtoll.c, vfprintf.c, wcstol.c, wcstoll.c

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nano-vfprintf.c, nano-vfprintf_float.c, nano-vfprintf_local.h

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ctype_.c, pwd.h

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strtok_r.c, wcstok.c

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putenv.c

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getpass.c, ttyname.c, ttyname_r.c

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mktemp.c, setenv.c

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closedir.c, opendir.c, readdir.c, readdir_r.c, seekdir.c, telldir.c

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malloc.c

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wcwidth.c

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lctype.c

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2.6 mbed TLS

ssl_tls13_keys.c, ssl_tls13_keys.h

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2.7 FatFs

ff.c, ff.h

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