

Compiler version	3.2.2.LTS
Compiler target	Arm
Date executed	2/22/2024
Execution machines	Linux, Windows, and MacOS
Tester	Todd Snider

Test	Passed	Failed	Compiler options (use cases)
ACE C++14 SuperTest Vermeer Update 3	17216	0	-mcpu=cortex-m0plus -mmathacl -fsized-deallocation -O1 -flto
ACE C++14 SuperTest Vermeer Update 3	17234	0	-mcpu=cortex-m0 -mexecute-only
ACE C++14 SuperTest Vermeer Update 3	17777	0	-mcpu=cortex-m33 -mfloat-abi=soft -O2 -flto -fexceptions -frtti
ACE C++14 SuperTest Vermeer Update 3	17236	0	-mcpu=cortex-m3 -fsized-deallocation
ACE C++14 SuperTest Vermeer Update 3	17236	0	-mcpu=cortex-m0 -fsized-deallocation
ACE C++14 SuperTest Vermeer Update 3	17236	0	-mcpu=cortex-m0plus -mmathacl -fsized-deallocation
ACE C++14 SuperTest Vermeer Update 3	17808	0	-mcpu=cortex-m4 -mfpu=fpv4-sp-d16 -fexceptions -frtti -mthumb
ACE C++14 SuperTest Vermeer Update 3	17272	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard -O3
ACE C++14 SuperTest Vermeer Update 3	17242	0	-mcpu=cortex-m4 -mfpu=fpv4-sp-d16 -mthumb
ACE C++14 SuperTest Vermeer Update 3	17838	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard -O3 -fexceptions -frtti
ACE C++14 SuperTest Vermeer Update 3	17234	0	-mcpu=cortex-m33 -mfloat-abi=soft
ACE C++14 SuperTest Vermeer Update 3	17242	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16
ACE C++17 SuperTest Vermeer Update	18354	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -O2
ACE C++17 SuperTest Vermeer Update 3	18353	0	-mcpu=cortex-m0 -O0
ACE C++17 SuperTest Vermeer Update 3	18983	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard -O3 -fexceptions -frtti
ACE C11 SuperTest Vermeer Update 3	5554	0	-mcpu=cortex-r4 -mbig-endian
ACE C11 SuperTest Vermeer Update 3	5554	0	-mcpu=cortex-m0
ACE C11 SuperTest Vermeer Update 3	5565	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -O3
ACE C11 SuperTest Vermeer Update 3	5556	0	-mcpu=cortex-m3
ACE C11 SuperTest Vermeer Update 3	5587	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard

ACE C11 SuperTest Vermeer Update 3	5554	0	-mcpu=cortex-m0plus -mmathacl
ACE C11 SuperTest Vermeer Update 3	5554	0	-mcpu=cortex-m0 -mskip-fault-mitigation
ACE C11 SuperTest Vermeer Update 3	5554	0	-mcpu=cortex-r4
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m0plus -mmathacl
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m3
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-r4 -mbig-endian
ACE C90 SuperTest Vermeer Update 3	3418	0	-mcpu=cortex-r4 -O2
ACE C90 SuperTest Vermeer Update 3	3418	0	-mcpu=cortex-m0 -mskip-fault-mitigation -Os -flto
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m0
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m0 -mexecute-only
ACE C90 SuperTest Vermeer Update 3	3418	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard -Oz -flto
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m0 -mskip-fault-mitigation
ACE C90 SuperTest Vermeer Update 3	3420	0	-mcpu=cortex-m33 -mfloat-abi=soft
ACE C99 SuperTest Vermeer Update 3	5300	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16
ARM_LLVM Benchmarks	17	0	-mcpu=cortex-r5 -O3 -fno-common
LLVM Regression Testing	49893	0	
Perennial C++14	207900	0	-mcpu=cortex-m4 -frtti -g -pedantic-errors
Perennial C++14	228811	0	-mcpu=cortex-m0plus -mmathacl -frtti -fexceptions -O0
Perennial C++14	184430	0	-mcpu=cortex-m4 -mfpu=fpv4-sp-d16 -mfloat-abi=hard -flto -O2
Perennial C++14	207861	0	-mcpu=cortex-m0 -frtti -Oz -flto
Perennial C++14	207876	0	-mcpu=cortex-m3 -frtti -O3
Perennial C++14	228777	0	-mcpu=cortex-r4 -O1 -mfpu=vfpv3-d16 -flto -fexceptions -frtti
Perennial C++14	207876	0	-mcpu=cortex-m0 -frtti -Oz
Perennial C++14	184445	0	-mcpu=cortex-m4 -O2

Perennial C++14	207886	0	-mcpu=cortex-m0 -frtti -O0
Perennial C++14	207886	0	-mcpu=cortex-m33 -frtti -mfloat-abi=soft
Perennial C++14	228801	0	-mcpu=cortex-m4 -mfpu=fpv4-sp-d16 -frtti -fexceptions -O3
Perennial C++14	207869	0	-mcpu=cortex-m4 -frtti -O1
Perennial C++14	184445	0	-mcpu=cortex-r4 -O3 -mfpu=vfpv3-d16
Perennial C++14	207869	0	-mcpu=cortex-m4 -frtti -Os -mfloat-abi=soft
Perennial C++14	207876	0	-mcpu=cortex-m0plus -mmathacl -frtti -O2
Perennial C++14	184455	0	-mcpu=cortex-r4 -mthumb
Perennial C++14	184438	0	-mcpu=cortex-r4 -Os -g
Perennial C++14	207871	0	-mcpu=cortex-m3 -frtti -flto
Perennial C++14	184445	0	-mcpu=cortex-r4 -O2 -g
Perennial C++14	207876	0	-mcpu=cortex-m3 -frtti -O2 -g
Perennial C++14	207886	0	-mcpu=cortex-m0plus -mmathacl -frtti -O0
Perennial C++14	228801	0	-mcpu=cortex-r4 -O3 -mfpu=vfpv3-d16 -fexceptions -frtti
Perennial C++17	267283	0	-mcpu=cortex-m33 -O0 -frtti -mfloat-abi=soft
Perennial C++17	267153	0	-mcpu=cortex-r4 -Oz -frtti -flto
Perennial C++17	231493	0	-mcpu=cortex-m4 -O1
Perennial C++17	267168	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard -O3 -frtti
Perennial C++17	289440	0	-mcpu=cortex-m4 -frtti -fexceptions -O2
Perennial C11	36505	0	-mcpu=cortex-m0
Perennial C11	38588	0	-mcpu=cortex-m3
Perennial C11	36505	0	-mcpu=cortex-m0 -mskip-fault-mitigation
Perennial C11	38597	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16
Perennial C11	38595	0	-mcpu=cortex-r4
Perennial C11	36505	0	-mcpu=cortex-m0plus -mmathacl
Perennial C90	9230	0	-mcpu=cortex-r4 -mfpu=vfpv3-d16 -mfloat-abi=hard
Perennial C99	34456	0	-mcpu=cortex-r4 -mbig-endian
Performance Reporting	0	1	
PHIL Regression Testing	377	0	-mcpu=cortex-M3
PHIL Regression Testing	381	0	-mcpu=cortex-r4 -mbig-endian -Ofast
PHIL Regression Testing	382	0	-mcpu=cortex-r4 -mbig-endian -Os
PHIL Regression Testing	363	0	-mcpu=cortex-m33 -mfloat-abi=soft
PHIL Regression Testing	376	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -g -mexecute-only
PHIL Regression Testing	371	0	-mcpu=cortex-r4 -mfloat-abi=hard -mfpu=vfpv3-d16 -O2
PHIL Regression Testing	375	0	-mcpu=cortex-m0 -mskip-fault-mitigation
PHIL Regression Testing	375	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpu=fpv4-sp-d16 -Ofast
PHIL Regression Testing	374	0	-mcpu=cortex-r4 -mthumb -mbig-endian -Og
PHIL Regression Testing	375	0	-mcpu=cortex-m0 -mexecute-only
PHIL Regression Testing	368	0	-mcpu=cortex-m0plus -mmathacl -O3

PHIL Regression Testing	373	0	-mcpu=cortex-r4 -mthumb -mbig-endian -O3 -finline-functions -gdwarf-3
PHIL Regression Testing	376	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpv=fpv4-sp-d16 -O1
PHIL Regression Testing	369	0	-mcpu=cortex-r4 -mfloat-abi=hard -mfpv=vfpv3-d16 -O1 -fpack-struct -mno-unaligned-access
PHIL Regression Testing	369	0	-mcpu=cortex-r4 -mfloat-abi=hard -mfpv=vfpv3-d16 -O2 -fpack-struct -mno-unaligned-access
PHIL Regression Testing	375	0	-mcpu=cortex-r4 -mthumb -mfloat-abi=hard -mfpv=vfpv3-d16 -mno-unaligned-access -Og
PHIL Regression Testing	375	0	-mcpu=cortex-m0
PHIL Regression Testing	376	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpv=fpv4-sp-d16
PHIL Regression Testing	356	0	-mcpu=cortex-r4 -mfloat-abi=hard -mfpv=vfpv3-d16 -O2 -flto
PHIL Regression Testing	383	0	-mcpu=cortex-r4 -mbig-endian -O2 -g
PHIL Regression Testing	375	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpv=fpv4-sp-d16 -Ofast
PHIL Regression Testing	382	0	-mcpu=cortex-r4 -mbig-endian -O1
PHIL Regression Testing	369	0	-mcpu=cortex-m0plus -mmathacl -Oz
PHIL Regression Testing	373	0	-mcpu=cortex-r4 -mthumb -mbig-endian -Ofast -g -gdwarf-3
PHIL Regression Testing	372	0	-mcpu=cortex-r4
PHIL Regression Testing	375	0	-mcpu=cortex-r4 -mthumb -mfloat-abi=hard -mfpv=vfpv3-d16 -mno-unaligned-access -Oz -finline-functions
PHIL Regression Testing	3515	0	
PHIL Regression Testing	2123	0	
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpv=fpv4-sp-d16
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-r4 -mbig-endian
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-r4 -mfpv=vfpv3-d16 -mfloat-abi=hard
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m33 -mfloat-abi=soft
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m3
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m0plus -mmathacl
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m0
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-r4
Plum Hall ANSI/ISO C Conformance	28869	0	-mcpu=cortex-m4 -mfloat-abi=hard -mfpv=fpv4-sp-d16 -Os -flto
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -O2

Plum Hall C++14	2836	0	-mcpu=cortex-r4 -frtti -Os -g -mthumb
Plum Hall C++14	2836	0	-mcpu=cortex-m0plus -mmathacl -O1 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-r4 -O2 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-r4 -frtti -Oz -g -mthumb
Plum Hall C++14	2863	0	-mcpu=cortex-m4 -O3 -mfpu=fpv4-sp-d16 -flto -fexceptions
Plum Hall C++14	2836	0	-mcpu=cortex-m0 -O2
Plum Hall C++14	2836	0	-mcpu=cortex-m0 -O3 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -O3 -frtti
Plum Hall C++14	2828	0	-mcpu=cortex-m3 -frtti -flto -O3
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -mfloat-abi=soft -O2
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -O2 -mfloat-abi=hard
Plum Hall C++14	2836	0	-mcpu=cortex-m3 -O3 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -frtti -O2 -g
Plum Hall C++14	2836	0	-mcpu=cortex-m33 -frtti -O2
Plum Hall C++14	2836	0	-mcpu=cortex-m0 -O1 -frtti
Plum Hall C++14	2837	0	-mcpu=cortex-m0 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -frtti -O1
Plum Hall C++14	2836	0	-mcpu=cortex-m3 -O1 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-m0plus -mmathacl -O2
Plum Hall C++14	2836	0	-mcpu=cortex-m3 -O2 -g -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-m4 -O4 -frtti
Plum Hall C++14	2836	0	-mcpu=cortex-r4 -O2
Plum Hall C++14	2837	0	-mcpu=cortex-m33 -g
Plum Hall C++14	2836	0	-mcpu=cortex-m3 -O2
Plum Hall C++14	2836	0	-mcpu=cortex-r4 -O2 -mfloat-abi=hard -mfpu=vfpv3-d16
Plum Hall C++14	2828	0	-mcpu=cortex-m4 -mfloat-abi=soft -O3 -flto
Plum Hall C++14	2836	0	-mcpu=cortex-r4 -frtti -O2 -g -mthumb
Plum Hall C++14	2872	0	-mcpu=cortex-r4 -O2 -fexceptions -frtti
Plum Hall C++14	2872	0	-mcpu=cortex-m0 -O1 -frtti -fexceptions -frtti