Included original file , but not rpt-hw.hpp

09:36:38 **** Incremental Build of configuration Debug for project VNA_2 ****
make all
Building file: ../src/MODULES/MODULE_I2C/CI2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -include/home/os64/Rpi-hw/include/rpi-hw.hpp -O0 -g3 -Wall -c
-fmessage-length=0 -v -MMD -MP -MF"src/MODULES/MODULE_I2C/CI2C.d"
-MT"src/MODULES/MODULE_I2C/CI2C.o" -o "src/MODULES/MODULE_I2C/CI2C.o"
"../src/MODULES/MODULE_I2C/CI2C.cpp"
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-
time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-
libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-
plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-
home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-
root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-
dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm
--with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc
--enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a
--with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror
--enable-multilib --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-
gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CI2C.d'
'-MT' 'src/MODULES/MODULE_I2C/CI2C.o' '-o' 'src/MODULES/MODULE_I2C/CI2C.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/cc1plus -quiet -v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw -imultiarch arm-linux-gnueabihf -MMD src/MODULES/MODULE_I2C/CI2C.d -MF
src/MODULES/MODULE_I2C/CI2C.d -MP -MT src/MODULES/MODULE_I2C/CI2C.o -dD
-D_GNU_SOURCE -include

```
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_I
2C/CI2C.h -include /home/os64/Rpi-hw/include/rpi-hw.hpp
../src/MODULES/MODULE_I2C/CI2C.cpp -quiet -dumpbase CI2C.cpp -march=armv7-a
-mfloat-abi=hard -mfpu=vfpv3-d16 -mthumb -mtls-dialect=gnu -auxbase-strip
src/MODULES/MODULE_I2C/CI2C.o -g3 -O0 -Wall -version -fmessage-length=0 -fstack-
protector-strong -Wformat-security -o /tmp/ccHy9UsU.s
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
ignoring nonexistent directory "/usr/local/include/arm-linux-gnueabihf"
ignoring nonexistent directory "/usr/include/arm-linux-gnueabihf"
ignoring duplicate directory
"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
#include "..." search starts here:
#include <...> search starts here:
 /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/arm-linux-gnueabihf
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/backward
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include-fixed
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/include
 /usr/include
End of search list.
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
Compiler executable checksum: e274b2b8cdd9239acad34e01b0aa3101
In file included from <command-line>:0:0:
/home/os64/Rpi-hw/include/rpi-hw.hpp:156:26: fatal error: rpi-hw/rpi.hpp: No such
file or directory
src/MODULES/MODULE_I2C/subdir.mk:21: recipe for target
'src/MODULES/MODULE_I2C/CI2C.o' failed
compilation terminated.
make: *** [src/MODULES/MODULE_I2C/CI2C.o] Error 1

09:36:38 Build Finished (took 406ms)
```

Bypassed all includes in rpi-hw.hpp at source

```
09:47:39 **** Incremental Build of configuration Debug for project VNA_2 ****
make all
Building file: ../src/MODULES/MODULE_I2C/CI2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw" -I/home/os64/Rpi-hw/include
```

```
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -include/home/os64/Rpi-hw/include/rpi-hw.hpp -O0 -g3 -Wall -c
-fmessage-length=0 -v -MMD -MP -MF"src/MODULES/MODULE_I2C/CI2C.d"
-MT"src/MODULES/MODULE_I2C/CI2C.o" -o "src/MODULES/MODULE_I2C/CI2C.o"
"../src/MODULES/MODULE_I2C/CI2C.cpp"
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-
time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-
libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-
plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-
home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-
root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-
dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm
--with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc
--enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a
--with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror
--enable-multilib --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-
gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CI2C.d'
'-MT' 'src/MODULES/MODULE_I2C/CI2C.o' '-o' 'src/MODULES/MODULE_I2C/CI2C.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/cc1plus -quiet -v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-imultiarch arm-linux-gnueabihf -MMD src/MODULES/MODULE_I2C/CI2C.d -MF
src/MODULES/MODULE_I2C/CI2C.d -MP -MT src/MODULES/MODULE_I2C/CI2C.o -dD
-D_GNU_SOURCE -include
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_I
2C/CI2C.h -include /home/os64/Rpi-hw/include/rpi-hw.hpp
../src/MODULES/MODULE_I2C/CI2C.cpp -quiet -dumpbase CI2C.cpp -march=armv7-a
-mfloat-abi=hard -mfpu=vfpv3-d16 -mthumb -mtls-dialect=gnu -auxbase-strip
src/MODULES/MODULE_I2C/CI2C.o -g3 -O0 -Wall -version -fmessage-length=0 -fstack-
protector-strong -Wformat-security -o /tmp/cc5n6Yrc.s
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
```

```
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
ignoring nonexistent directory "/usr/local/include/arm-linux-gnueabihf"
ignoring nonexistent directory "/usr/include/arm-linux-gnueabihf"
ignoring duplicate directory
"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
#include "..." search starts here:
#include <...> search starts here:
 /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
 /home/os64/Rpi-hw/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/arm-linux-gnueabihf
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/backward
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include-fixed
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/include
 /usr/include
End of search list.
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
Compiler executable checksum: e274b2b8cdd9239acad34e01b0aa3101
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CI2C.d'
'-MT' 'src/MODULES/MODULE_I2C/CI2C.o' '-o' 'src/MODULES/MODULE_I2C/CI2C.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/as
-v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-march=armv7-a -mfloat-abi=hard -mfpu=vfpv3-d16 -meabi=5 -o
src/MODULES/MODULE_I2C/CI2C.o /tmp/cc5n6Yrc.s
GNU assembler version 2.26.1 (arm-linux-gnueabihf) using BFD version (GNU Binutils
for Ubuntu) 2.26.1
COMPILER_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/
LIBRARY_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/lib/../lib/:/lib/../lib/:/usr/lib/../lib/:/usr/lib/gcc-cross/arm-linux-
gnueabihf/5/../../../../arm-linux-gnueabihf/lib/:/lib/:/usr/lib/
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
```

```
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CI2C.d'
'-MT' 'src/MODULES/MODULE_I2C/CI2C.o' '-o' 'src/MODULES/MODULE_I2C/CI2C.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
Finished building: ../src/MODULES/MODULE_I2C/CI2C.cpp

Building file: ../src/MODULES/MODULE_I2C/CLASS.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw" -I/home/os64/Rpi-hw/include
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -include/home/os64/Rpi-hw/include/rpi-hw.hpp -O0 -g3 -Wall -c
-fmessage-length=0 -v -MMD -MP -MF"src/MODULES/MODULE_I2C/CLASS.d"
-MT"src/MODULES/MODULE_I2C/CLASS.o" -o "src/MODULES/MODULE_I2C/CLASS.o"
"../src/MODULES/MODULE_I2C/CLASS.cpp"
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-
time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-
libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-
plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-
home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-
root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-
dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm
--with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc
--enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a
--with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror
--enable-multilib --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-
gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CLASS.d'
'-MT' 'src/MODULES/MODULE_I2C/CLASS.o' '-o' 'src/MODULES/MODULE_I2C/CLASS.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/cc1plus -quiet -v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
```

```
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-imultiarch arm-linux-gnueabihf -MMD src/MODULES/MODULE_I2C/CLASS.d -MF
src/MODULES/MODULE_I2C/CLASS.d -MP -MT src/MODULES/MODULE_I2C/CLASS.o -dD
-D_GNU_SOURCE -include
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_I
2C/CI2C.h -include /home/os64/Rpi-hw/include/rpi-hw.hpp
../src/MODULES/MODULE_I2C/CLASS.cpp -quiet -dumpbase CLASS.cpp -march=armv7-a
-mfloat-abi=hard -mfpu=vfpv3-d16 -mthumb -mtls-dialect=gnu -auxbase-strip
src/MODULES/MODULE_I2C/CLASS.o -g3 -O0 -Wall -version -fmessage-length=0 -fstack-
protector-strong -Wformat-security -o /tmp/ccukAVhJ.s
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
ignoring nonexistent directory "/usr/local/include/arm-linux-gnueabihf"
ignoring nonexistent directory "/usr/include/arm-linux-gnueabihf"
ignoring duplicate directory
"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
#include "..." search starts here:
#include <...> search starts here:
 /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
 /home/os64/Rpi-hw/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/arm-linux-gnueabihf
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/backward
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include-fixed
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/include
 /usr/include
End of search list.
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
Compiler executable checksum: e274b2b8cdd9239acad34e01b0aa3101
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CLASS.d'
'-MT' 'src/MODULES/MODULE_I2C/CLASS.o' '-o' 'src/MODULES/MODULE_I2C/CLASS.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/as
-v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
```

```
-march=armv7-a -mfloat-abi=hard -mfpu=vfpv3-d16 -meabi=5 -o
src/MODULES/MODULE_I2C/CLASS.o /tmp/ccukAVhJ.s
GNU assembler version 2.26.1 (arm-linux-gnueabihf) using BFD version (GNU Binutils
for Ubuntu) 2.26.1
COMPILER_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/
LIBRARY_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/lib/../lib/:/lib/../lib/:/usr/lib/../lib/:/usr/lib/gcc-cross/arm-linux-
gnueabihf/5/../../../../arm-linux-gnueabihf/lib/:/lib/:/usr/lib/
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/MODULES/MODULE_I2C/CLASS.d'
'-MT' 'src/MODULES/MODULE_I2C/CLASS.o' '-o' 'src/MODULES/MODULE_I2C/CLASS.o' '-
shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-
mtls-dialect=gnu'
Finished building: ../src/MODULES/MODULE_I2C/CLASS.cpp

Building file: ../src/CCCHITACHI1602I2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw" -I/home/os64/Rpi-hw/include
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -include/home/os64/Rpi-hw/include/rpi-hw.hpp -O0 -g3 -Wall -c
-fmessage-length=0 -v -MMD -MP -MF"src/CCCHITACHI1602I2C.d"
-MT"src/CCCHITACHI1602I2C.o" -o "src/CCCHITACHI1602I2C.o"
"../src/CCCHITACHI1602I2C.cpp"
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-
time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-
libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-
plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-
home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-
root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-
dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm
--with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc
--enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a
--with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror
--enable-multilib --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-
gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
```

```
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/CCCHITACHI1602I2C.d' '-MT'
'src/CCCHITACHI1602I2C.o' '-o' 'src/CCCHITACHI1602I2C.o' '-shared-libgcc' '-
march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/cc1plus -quiet -v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-imultiarch arm-linux-gnueabihf -MMD src/CCCHITACHI1602I2C.d -MF
src/CCCHITACHI1602I2C.d -MP -MT src/CCCHITACHI1602I2C.o -dD -D_GNU_SOURCE -include
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_I
2C/CI2C.h -include /home/os64/Rpi-hw/include/rpi-hw.hpp
../src/CCCHITACHI1602I2C.cpp -quiet -dumpbase CCCHITACHI1602I2C.cpp -march=armv7-a
-mfloat-abi=hard -mfpu=vfpv3-d16 -mthumb -mtls-dialect=gnu -auxbase-strip
src/CCCHITACHI1602I2C.o -g3 -O0 -Wall -version -fmessage-length=0 -fstack-
protector-strong -Wformat-security -o /tmp/ccCE0hxg.s
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
ignoring nonexistent directory "/usr/local/include/arm-linux-gnueabihf"
ignoring nonexistent directory "/usr/include/arm-linux-gnueabihf"
ignoring duplicate directory
"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
#include "..." search starts here:
#include <...> search starts here:
 /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
 /home/os64/Rpi-hw/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/arm-linux-gnueabihf
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/backward
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include-fixed
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/include
 /usr/include
End of search list.
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
Compiler executable checksum: e274b2b8cdd9239acad34e01b0aa3101
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
```

```
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/CCCHITACHI1602I2C.d' '-MT'
'src/CCCHITACHI1602I2C.o' '-o' 'src/CCCHITACHI1602I2C.o' '-shared-libgcc' '-
march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/as
-v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-march=armv7-a -mfloat-abi=hard -mfpu=vfpv3-d16 -meabi=5 -o
src/CCCHITACHI1602I2C.o /tmp/ccCE0hxg.s
GNU assembler version 2.26.1 (arm-linux-gnueabihf) using BFD version (GNU Binutils
for Ubuntu) 2.26.1
COMPILER_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/
LIBRARY_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/lib/../lib/:/lib/../lib/:/usr/lib/../lib/:/usr/lib/gcc-cross/arm-linux-
gnueabihf/5/../../../../arm-linux-gnueabihf/lib/:/lib/:/usr/lib/
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/CCCHITACHI1602I2C.d' '-MT'
'src/CCCHITACHI1602I2C.o' '-o' 'src/CCCHITACHI1602I2C.o' '-shared-libgcc' '-
march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
Finished building: ../src/CCCHITACHI1602I2C.cpp

Building file: ../src/VNA_2.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw" -I/home/os64/Rpi-hw/include
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -include/home/os64/Rpi-hw/include/rpi-hw.hpp -O0 -g3 -Wall -c
-fmessage-length=0 -v -MMD -MP -MF"src/VNA_2.d" -MT"src/VNA_2.o" -o "src/VNA_2.o"
"../src/VNA_2.cpp"
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-
time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-
libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-
```

plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-
home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-
root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-
dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm
--with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc
--enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a
--with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror
--enable-multilib --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-
gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/VNA_2.d' '-MT'
'src/VNA_2.o' '-o' 'src/VNA_2.o' '-shared-libgcc' '-march=armv7-a' '-mfloat-
abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/cc1plus -quiet -v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-imultiarch arm-linux-gnueabihf -MMD src/VNA_2.d -MF src/VNA_2.d -MP -MT
src/VNA_2.o -dD -D_GNU_SOURCE -include
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_I
2C/CI2C.h -include /home/os64/Rpi-hw/include/rpi-hw.hpp ../src/VNA_2.cpp -quiet
-dumpbase VNA_2.cpp -march=armv7-a -mfloat-abi=hard -mfpu=vfpv3-d16 -mthumb -mtls-
dialect=gnu -auxbase-strip src/VNA_2.o -g3 -O0 -Wall -version -fmessage-length=0
-fstack-protector-strong -Wformat-security -o /tmp/ccpyHH5H.s
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
       compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
ignoring nonexistent directory "/usr/local/include/arm-linux-gnueabihf"
ignoring nonexistent directory "/usr/include/arm-linux-gnueabihf"
ignoring duplicate directory
"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
#include "..." search starts here:
#include <...> search starts here:
 /media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
 /home/os64/Rpi-hw/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/arm-linux-gnueabihf
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/include/c++/5/backward
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/include-fixed
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/include
 /usr/include
End of search list.

```
GNU C++ (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4) version 5.4.0 20160609 (arm-linux-
gnueabihf)
        compiled by GNU C version 5.4.0 20160609, GMP version 6.1.0, MPFR version
3.1.4, MPC version 1.0.3
GGC heuristics: --param ggc-min-expand=100 --param ggc-min-heapsize=131072
Compiler executable checksum: e274b2b8cdd9239acad34e01b0aa3101
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/VNA_2.d' '-MT'
'src/VNA_2.o' '-o' 'src/VNA_2.o' '-shared-libgcc' '-march=armv7-a' '-mfloat-
abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/as
-v -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-I /home/os64/Rpi-hw/include -I
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-hw
-march=armv7-a -mfloat-abi=hard -mfpu=vfpv3-d16 -meabi=5 -o src/VNA_2.o
/tmp/ccpyHH5H.s
GNU assembler version 2.26.1 (arm-linux-gnueabihf) using BFD version (GNU Binutils
for Ubuntu) 2.26.1
COMPILER_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/
LIBRARY_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-
linux-gnueabihf/5/../../../../arm-linux-
gnueabihf/lib/../lib/:/lib/../lib/:/usr/lib/../lib/:/usr/lib/gcc-cross/arm-linux-
gnueabihf/5/../../../../arm-linux-gnueabihf/lib/:/lib/:/usr/lib/
COLLECT_GCC_OPTIONS='-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-I' '/home/os64/Rpi-hw/include' '-I'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw' '-include'
'/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES/MODULE_
I2C/CI2C.h' '-include' '/home/os64/Rpi-hw/include/rpi-hw.hpp' '-O0' '-g3' '-Wall'
'-c' '-fmessage-length=0' '-v' '-MMD' '-MP' '-MF' 'src/VNA_2.d' '-MT'
'src/VNA_2.o' '-o' 'src/VNA_2.o' '-shared-libgcc' '-march=armv7-a' '-mfloat-
abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
Finished building: ../src/VNA_2.cpp

Building target: VNA_2
Invoking: Cross G++ Linker
arm-linux-gnueabihf-g++ -v -o "VNA_2"  ./src/MODULES/MODULE_I2C/CI2C.o
./src/MODULES/MODULE_I2C/CLASS.o  ./src/CCCHITACHI1602I2C.o ./src/VNA_2.o
Using built-in specs.
COLLECT_GCC=arm-linux-gnueabihf-g++
COLLECT_LTO_WRAPPER=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/lto-wrapper
Target: arm-linux-gnueabihf
Configured with: ../src/configure -v --with-pkgversion='Ubuntu/Linaro 5.4.0-
6ubuntu1~16.04.4' --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs --enable-
languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr --program-
suffix=-5 --enable-shared --enable-linker-build-id --libexecdir=/usr/lib
--without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls
```

--with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-libitm --disable-libquadmath --enable-plugin --with-system-zlib --disable-browser-plugin --enable-java-awt=gtk --enable-gtk-cairo --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross/jre --enable-java-home --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-armhf-cross --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-armhf-cross --with-arch-directory=arm --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libgcj --enable-objc-gc --enable-multiarch --enable-multilib --disable-sjlj-exceptions --with-arch=armv7-a --with-fpu=vfpv3-d16 --with-float=hard --with-mode=thumb --disable-werror --enable-multilib --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu --target=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --includedir=/usr/arm-linux-gnueabihf/include
Thread model: posix
gcc version 5.4.0 20160609 (Ubuntu/Linaro 5.4.0-6ubuntu1~16.04.4)
COMPILER_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/:/usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/bin/
LIBRARY_PATH=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/:/usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/../lib/:/lib/../lib/:/usr/lib/../lib/:/usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/:/lib/:/usr/lib/
COLLECT_GCC_OPTIONS='-v' '-o' 'VNA_2' '-shared-libgcc' '-march=armv7-a' '-mfloat-abi=hard' '-mfpu=vfpv3-d16' '-mthumb' '-mtls-dialect=gnu'
 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/collect2 -plugin /usr/lib/gcc-cross/arm-linux-gnueabihf/5/liblto_plugin.so -plugin-opt=/usr/lib/gcc-cross/arm-linux-gnueabihf/5/lto-wrapper -plugin-opt=-fresolution=/tmp/ccjFKwcr.res -plugin-opt=-pass-through=-lgcc_s -plugin-opt=-pass-through=-lgcc -plugin-opt=-pass-through=-lc -plugin-opt=-pass-through=-lgcc_s -plugin-opt=-pass-through=-lgcc --sysroot=/ --build-id --eh-frame-hdr -dynamic-linker /lib/ld-linux-armhf.so.3 -X --hash-style=gnu --as-needed -m armelf_linux_eabi -z relro -o VNA_2 /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/../lib/crt1.o /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/../lib/crti.o /usr/lib/gcc-cross/arm-linux-gnueabihf/5/crtbegin.o -L/usr/lib/gcc-cross/arm-linux-gnueabihf/5 -L/usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/../lib -L/lib/../lib -L/usr/lib/../lib -L/usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib ./src/MODULES/MODULE_I2C/CI2C.o ./src/MODULES/MODULE_I2C/CLASS.o ./src/CCHITACHI1602I2C.o ./src/VNA_2.o -lstdc++ -lm -lgcc_s -lgcc -lc -lgcc_s -lgcc /usr/lib/gcc-cross/arm-linux-gnueabihf/5/crtend.o /usr/lib/gcc-cross/arm-linux-gnueabihf/5/../../../../arm-linux-gnueabihf/lib/../lib/crtn.o
Finished building target: VNA_2

09:47:42 Build Finished (took 2s.801ms

Added rpi_hw.hpp with include `rpi-hw/rpi.hpp`

Need common path to Workspace rpi-hw than add rpi.hpp

19:19:53 **** Incremental Build of configuration Debug for project VNA_2 ****
make all
Building file: ../src/MODULES/MODULE_I2C/CI2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWAR
E/rpi-hw.hpp" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP
-MF"src/MODULES/MODULE_I2C/CI2C.d" -MT"src/MODULES/MODULE_I2C/CI2C.o" -o
"src/MODULES/MODULE_I2C/CI2C.o" "../src/MODULES/MODULE_I2C/CI2C.cpp"
In file included from <command-line>:0:0:
/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw.hpp:25:26: fatal error: rpi-hw/rpi.hpp: No such file or directory
compilation terminated.
src/MODULES/MODULE_I2C/subdir.mk:21: recipe for target
'src/MODULES/MODULE_I2C/CI2C.o' failed
make: *** [src/MODULES/MODULE_I2C/CI2C.o] Error 1

19:19:53 Build Finished (took 441ms

Added include … rpi-hw.hpp not sure

19:14:12 **** Build of configuration Debug for project VNA_2 ****
make all
Building file: ../src/MODULES/MODULE_I2C/CI2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWAR
E/rpi-hw.hpp" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP
-MF"src/MODULES/MODULE_I2C/CI2C.d" -MT"src/MODULES/MODULE_I2C/CI2C.o" -o
"src/MODULES/MODULE_I2C/CI2C.o" "../src/MODULES/MODULE_I2C/CI2C.cpp"
Finished building: ../src/MODULES/MODULE_I2C/CI2C.cpp

Building file: ../src/MODULES/MODULE_I2C/CLASS.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES

```
/MODULE_I2C/CI2C.h"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWAR
E/rpi-hw.hpp" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP
-MF"src/MODULES/MODULE_I2C/CLASS.d" -MT"src/MODULES/MODULE_I2C/CLASS.o" -o
"src/MODULES/MODULE_I2C/CLASS.o" "../src/MODULES/MODULE_I2C/CLASS.cpp"
Finished building: ../src/MODULES/MODULE_I2C/CLASS.cpp

Building file: ../src/CCCHITACHI1602I2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWAR
E/rpi-hw.hpp" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP
-MF"src/CCCHITACHI1602I2C.d" -MT"src/CCCHITACHI1602I2C.o" -o
"src/CCCHITACHI1602I2C.o" "../src/CCCHITACHI1602I2C.cpp"
Finished building: ../src/CCCHITACHI1602I2C.cpp

Building file: ../src/VNA_2.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWAR
E/rpi-hw.hpp" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP -MF"src/VNA_2.d"
-MT"src/VNA_2.o" -o "src/VNA_2.o" "../src/VNA_2.cpp"
Finished building: ../src/VNA_2.cpp

Building target: VNA_2
Invoking: Cross G++ Linker
arm-linux-gnueabihf-g++  -o "VNA_2"  ./src/MODULES/MODULE_I2C/CI2C.o
./src/MODULES/MODULE_I2C/CLASS.o  ./src/CCCHITACHI1602I2C.o ./src/VNA_2.o
Finished building target: VNA_2
```

19:14:15 Build Finished (took 2s.522ms)

ADED -I (inlcude path ?) rpi_hardware

19:07:12 **** Build of configuration Debug for project VNA_2 ****
```
make all
Building file: ../src/MODULES/MODULE_I2C/CI2C.cpp
Invoking: Cross G++ Compiler
arm-linux-gnueabihf-g++
-I"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/RPI_HARDWARE/rpi-
hw"
-include"/media/os64/Eclipse/eclipse/Workspace/Eclipse_Oxygen_1A/VNA_2/src/MODULES
/MODULE_I2C/CI2C.h" -O0 -g3 -Wall -c -fmessage-length=0 -MMD -MP
```