

```
Last login: Sun Jul 16 18:03:04 on ttys000
sandro@MacBook-Air-di-SANDRO ~ % make clean && make -j
make: *** No rule to make target `clean'. Stop.
sandro@MacBook-Air-di-SANDRO ~ % cd Downloads
sandro@MacBook-Air-di-SANDRO Downloads % cd proxmark3
sandro@MacBook-Air-di-SANDRO proxmark3 % make clean && make -j
```

```
=====
Version info:      Iceman/master/v4.16717-118-gba8535b26
Platform name:    Proxmark3 generic target
PLATFORM:        PM3GENERIC
PLATFORM_FPGA:    xc2s30
PLATFORM_SIZE:    512
Platform extras:  FLASH
Included options: FLASH LF HITAG EM4x50 EM4x70 ZX8211 GENERAL_HF
IS015693 LEGICRF IS014443b IS014443a ICLASS FELICA NFCBARCODE
HFSNIFF HFPL0T
Standalone mode:  LF_EM4100RSWW
=====
```

```
[*] MAKE client/clean
```

```
=====
Version info:      Iceman/master/v4.16717-118-gba8535b26
Client platform:  Darwin
GUI support:      QT5 found, enabled (Qt version 5.15.10 in /opt/
homebrew/Cellar/qt@5/5.15.10/lib)
native BT support: Bluez not found, disabled
Jansson library: system library not found, using local library
Lua library:      system library not found, using local library
Python3 library: Python3 v3.11 found, enabled
Readline library: enabled
Whereami library: system library not found, using local library
Lua SWIG:         wrapper found
Python SWIG:      wrapper found
compiler version: Apple clang version 14.0.3 (clang-1403.0.22.14.1)
=====
```

```
PLATFORM Darwin
```

```
[*] MAKE bootrom/clean
[*] MAKE fpga_compress/clean
[*] MAKE armsrc/clean
[*] MAKE recovery/clean
[*] MAKE mfkey/clean
[*] MAKE nonce2key/clean
[*] MAKE mf_nonce_brute/clean
[*] MAKE mfd_aes_brute/clean
```

```
=====
Version info:      Iceman/master/v4.16717-118-gba8535b26
Platform name:    Proxmark3 generic target
PLATFORM:        PM3GENERIC
PLATFORM_FPGA:    xc2s30
PLATFORM_SIZE:    512
Platform extras:  FLASH
Included options: FLASH LF HITAG EM4x50 EM4x70 ZX8211 GENERAL_HF
IS015693 LEGICRF IS014443b IS014443a ICLASS FELICA NFCBARCODE
=====
```

HFSNIFF HFPLOT

Standalone mode: LF\_EM4100RSWW

```
=====
[*] MAKE client/all
[*] MAKE bootrom/all
[*] MAKE fpga_compress/all
[*] MAKE mfkey/all
[*] MAKE nonce2key/all
[*] MAKE mf_nonce_brute/all
[*] MAKE mfd_aes_brute/all
[-] CC fpga_compress.c
[-] CC ../../common/lz4/lz4hc.c
[-] CC ../../common/lz4/lz4.c
[-] CC mf_nonce_brute.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC nonce2key.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC ../../common/bucketsort.c
[-] CC mfkey32.c
[-] CC brute_key.c
[-] CC iso14443crc.c
[-] CC ../../common/bucketsort.c
[-] CC sleep.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC util_posix.c
[-] CC ../../common/crapto1/crapto1.c
[-] CC ../../common/bucketsort.c
[-] CC mfkey32v2.c
[-] CC mf_trace_brute.c
[-] CC mfkey64.c
[-] CC util_posix.c
compiler version: arm-none-eabi-gcc (GNU Arm Embedded Toolchain
10-2020-q4-major) 10.2.1 20201103 (release)
[=] GEN version_pm3.c
[-] CC ram-reset.s
[-] CC flash-reset.s
[-] CC ../common_arm/usb_cdc.c
[-] CC ../common_arm/clocks.c
[-] CC bootrom.c
[-] CC ../common_arm/flashmem.c
[-] CC ../common_arm/ticks.c
[-] CC randoms.c
[-] CC mfd_aes_brute.c
=====
[-] CC mfd_multi_brute.c
[-] CC version_pm3.c
Version info:      Iceman/master/v4.16717-118-gba8535b26
Client platform:  Darwin
[=] CXX brute_key
GUI support:      QT5 found, enabled (Qt version 5.15.10 in /opt/
homebrew/Cellar/qt@5/5.15.10/lib)
native BT support: Bluez not found, disabled
```

Jansson library: system library not found, using local library  
Lua library: system library not found, using local library  
ld: warning: directory not found for option '-L/opt/homebrew/opt/openssl@1.1/lib'  
Python3 library: Python3 v3.11 found, enabled  
Readline library: enabled  
Whereami library: system library not found, using local library  
Lua SWIG: wrapper found  
Python SWIG: wrapper found  
compiler version: Apple clang version 14.0.3 (clang-1403.0.22.14.1)

```
=====
[-] CC src/mifare/aiddesfire.c
[=] CXX mfd_aes_brute
[-] CC src/aidsearch.c
[=] CXX mfd_multi_brute
ld: warning: directory not found for option '-L/opt/homebrew/opt/openssl@1.1/lib'
[=] LD obj/bootrom.elf
[=] CXX mf_nonce_brute
[=] CXX mf_trace_brute
[-] CC src/atrs.c
ld: warning: directory not found for option '-L/opt/homebrew/opt/openssl@1.1/lib'
[=] CXX mfkey32
[=] CXX mfkey32v2
[=] CXX mfkey64
[-] CC src/cmdanalyse.c
[=] GEN obj/bootrom.s19
[-] CC src/cmdcrc.c
[=] CXX nonce2key
[-] CC src/cmddata.c
[-] CC src/cmdflashmem.c
[-] CC src/cmdflashmemspiffs.c
[-] CC src/cmdhf.c
[-] CC src/cmdhf14a.c
[-] CC src/cmdhf14b.c
[-] CC src/cmdhf15.c
[-] CC src/cmdhfcryptorf.c
[-] CC src/cmdhfepa.c
[-] CC src/cmdhffemrtd.c
[-] CC src/cmdhffelica.c
[-] CC src/cmdhffido.c
[-] CC src/cmdhffudan.c
[-] CC src/cmdhfgallagher.c
[-] CC src/cmdhfksx6924.c
[-] CC src/cmdhfcipurse.c
[-] CC src/cmdhficclass.c
[-] CC src/cmdhflegic.c
[-] CC src/cmdhfjooki.c
[-] CC src/cmdhflist.c
[-] CC src/cmdhflto.c
[-] CC src/cmdhfmf.c
[-] CC src/cmdhmfdes.c
[-] CC src/cmdhmfhard.c
```

```
[-] CC src/cmdhfmfu.c
[-] CC src/cmdhfmfp.c
src/cmdhfmfhard.c:412:35: warning: cast from 'char *' to 'uint32_t
*' (aka 'unsigned int *') increases required alignment from 1 to 4
[-Wcast-align]
```

```
uint32_t count = ((uint32_t *)uncompressed_data)[0];
```

```
^~~~~~
[=] CXX fpga_compress
[-] CC src/cmdhfnntag424.c
[*] MAKE armsrc/all
[-] CC src/cmdhfseos.c
[-] CC src/cmdhfst.c
compiler version: arm-none-eabi-gcc (GNU Arm Embedded Toolchain
10-2020-q4-major) 10.2.1 20201103 (release)
[-] GEN fpga_version_info.c
[-] GEN obj/fpga_all.bit.z
[-] CC start.c
[-] CC iso15693.c
[-] CC ../common/iso15693tools.c
[-] CC thinfilm.c
[-] CC lfops.c
[-] CC lfsampling.c
[-] CC pcf7931.c
[-] CC ../common/lfdemod.c
[-] CC lfacd.c
[-] CC ../common/lz4/lz4.c
[-] CC src/cmdhfst25ta.c
[-] CC legicrf.c
[-] CC legicrfsim.c
[-] CC ../common/legic_prng.c
[-] CC ../common_arm/flashmem.c
[-] CC hitag2_crypto.c
[-] CC hitag2.c
[-] CC hitagS.c
[-] CC em4x50.c
[-] CC ../common/bruteforce.c
[-] CC em4x70.c
[-] CC spiffs.c
[-] CC spiffs_cache.c
[-] CC src/cmdhftesla.c
[-] CC spiffs_check.c
[-] CC spiffs_gc.c
[-] CC spiffs_nucleus.c
[-] CC spiffs_hydrogen.c
[-] CC hfops.c
[-] CC iso14443a.c
[-] CC mifareutil.c
[-] CC mifarecmd.c
[-] CC src/cmdhfthinfilm.c
[-] CC epa.c
[-] CC mifaresim.c
[-] CC iso14443b.c
[-] CC ../common/crapto1/crypto1.c
[-] CC ../common/mbedtlsls/des.c
```

```
[-] CC desfire_crypto.c
[-] CC mifaredesfire.c
[-] CC ../common/mbedtls/aes.c
[-] CC ../common/mbedtls/platform_util.c
[-] CC iclass.c
[-] CC optimized_cipherutils.c
[-] CC optimized_ikeys.c
[-] CC src/cmdhftopaz.c
[-] CC optimized_elite.c
[-] CC optimized_cipher.c
[-] CC ../common/crc.c
[-] CC ../common/crc16.c
[-] CC ../common/crc32.c
[-] CC felica.c
[-] CC ../armsrc/Standalone/lf_em4100rsw.c
[-] CC src/cmdhftexkom.c
[-] CC lfzx.c
[-] CC appmain.c
[-] CC printf.c
[-] CC dbprint.c
[-] CC ../common/commonutil.c
[-] CC util.c
[-] CC string.c
[-] CC BigBuf.c
[-] CC src/cmdhfvas.c
[-] CC ../common_arm/ticks.c
[-] CC src/cmdhfwaveshare.c
[-] CC ../common_arm/clocks.c
[-] CC hfsnoop.c
[-] CC ../common/generator.c
[-] CC fpga_loader.c
[-] CC ../common_arm/usb_cdc.c
[-] CC cmd.c
[-] CC src/cmdhfxerox.c
[-] CC src/cmdhw.c
[-] CC fpga_version_info.c
[-] GEN obj/fpga_all.o
[-] CC src/cmdlf.c
[-] CC src/cmdlfwawid.c
[-] CC src/cmdlfcotag.c
[-] CC src/cmdlfdestron.c
[-] CC src/cmdlffem.c
[-] CC src/cmdlffem410x.c
[-] CC src/cmdlffem4x05.c
[-] CC src/cmdlffem4x50.c
[-] CC src/cmdlffem4x70.c
[-] CC src/cmdlffdx.c
[-] CC src/cmdlfguard.c
[-] CC src/cmdlfgallagher.c
[-] CC src/cmdlffhid.c
[-] CC src/cmdlffhitag.c
[-] CC src/cmdlffidteck.c
[-] CC src/cmdlffindala.c
[-] CC src/cmdlffio.c
```

```
[-] CC src/cmdlfjablotron.c
[-] CC src/cmdlfkeri.c
[-] CC src/cmdlfmotorola.c
[-] CC src/cmdlfnedap.c
[-] CC src/cmdlfnexwatch.c
[-] CC src/cmdlfnoralsy.c
[-] CC src/cmdlfpac.c
[-] CC src/cmdlfparadox.c
[-] CC src/cmdlfp7931.c
[-] CC src/cmdlfpresco.c
[-] CC src/cmdlfp pyramid.c
[-] CC src/cmdlfsecurakey.c
[-] CC src/cmdlft55xx.c
[-] CC src/cmdlfti.c
[-] CC src/cmdlfviking.c
[-] CC src/cmdlfvisa2000.c
[-] CC src/cmdlfzx8211.c
[-] CC src/cmdmain.c
[-] CC src/cmdnfc.c
[-] CC src/cmdparser.c
[-] CC src/cmdpiv.c
[-] CC src/cmdscript.c
[-] CC src/cmdsmartcard.c
[-] CC src/cmdtrace.c
[-] CC src/cmdusart.c
[-] CC src/cmdwiegand.c
[-] CC src/comms.c
[-] CC src/crypto/asn1dump.c
[-] CC src/crypto/asn1utils.c
[-] CC src/crypto/libpcrypto.c
1 warning generated.
[-] CC src/emv/cmdemv.c
[-] CC src/emv/crypto.c
[-] CC src/emv/crypto_polarssl.c
[-] CC src/emv/dol.c
[-] CC src/emv/emv_pk.c
[-] CC src/emv/emv_pki.c
[-] CC src/emv/emv_pki_priv.c
[-] CC src/emv/emv_roca.c
[-] CC src/emv/emv_tags.c
[-] CC src/emv/emvcore.c
[-] CC src/emv/emvjson.c
[-] CC src/emv/tlv.c
[-] CC src/emv/test/crypto_test.c
[-] CC src/emv/test/cryptotest.c
[-] CC src/emv/test/cda_test.c
[-] CC src/emv/test/dda_test.c
[-] CC src/emv/test/sda_test.c
[-] CC src/fido/additional_ca.c
[-] CC src/fido/cose.c
[-] CC src/fido/cbortools.c
[-] CC src/fido/fidocore.c
[-] CC src/ksx6924/ksx6924core.c
[-] CC src/cipurse/cipursecore.c
```

```
[-] CC src/cipurse/cipursecrypto.c
[-] CC src/cipurse/cipursetest.c
[-] CC src/fileutils.c
[-] GEN version_pm3.c
[-] CC src/flash.c
[-] CC ../common/generator.c
src/flash.c:352:32: warning: cast from 'uint8_t *' (aka 'unsigned
char *') to 'uint32_t *' (aka 'unsigned int *') increases required
alignment from 1 to 4 [-Wcast-align]
    uint32_t offset = *(uint32_t *)(ctx->elf +
le32(shdrs[i].sh_offset) + le32(shdrs[i].sh_size) - 4);
```

^~~~~~  
~~~~~

```
[-] CC src/graph.c
[-] CC version_pm3.c
[=] LD obj/fullimage.stage1.elf
[-] CC src/jansson_path.c
[-] CC src/iso4217.c
1 warning generated.
[-] GEN obj/fullimage.data.bin
[-] CC src/iso7816/apduinfo.c
[-] GEN obj/fullimage.data.bin.z
[=] LD obj/fullimage.elf
[=] GEN obj/fullimage.s19
[*] MAKE recovery/all
[-] CC src/iso7816/iso7816core.c
[-] CC src/loclass/cipher.c
[=] GEN bootrom.bin
[=] GEN fullimage.bin
[=] GEN proxmark3_recovery.bin
[-] CC src/loclass/cipherutils.c
[-] CC src/loclass/elite_crack.c
[-] CC src/loclass/ikeys.c
[-] CC src/mifare/lrpcrypto.c
[-] CC src/mifare/desfirecrypto.c
[-] CC src/mifare/desfirecore.c
[-] CC src/mifare/desfiresecurechan.c
[-] CC src/mifare/desfiretest.c
[-] CC src/mifare/gallaghercore.c
[-] CC src/mifare/mad.c
[-] CC src/mifare/mfkey.c
[-] CC src/mifare/mifare4.c
[-] CC src/mifare/mifaredefault.c
[-] CC src/mifare/mifarehost.c
[-] CC src/nfc/ndef.c
[-] CC src/pm3.c
[-] CC src/pm3_binlib.c
[-] CC src/pm3_bitlib.c
[-] CC src/preferences.c
[-] CC src/pm3line.c
[-] CC src/proxmark3.c
[-] CC src/scandir.c
[-] CC src/uart/uart_posix.c
```

```

[-] CC src/uart/uart_win32.c
[-] CC src/scripting.c
[-] CC src/ui.c
[-] CC src/util.c
[=] GEN src/version_pm3.c
[-] CC src/wiegand_formats.c
[-] CC src/wiegand_formatutils.c
[-] CC ../common/bucketsort.c
[-] CC ../common/cardhelper.c
[-] CC ../common/crapto1/crapto1.c
[-] CC ../common/crapto1/crypto1.c
[-] CC ../common/crc.c
[-] CC ../common/crc16.c
[-] CC ../common/crc32.c
[-] CC ../common/crc64.c
[-] CC ../common/commonutil.c
[-] CC ../common/iso15693tools.c
[-] CC ../common/legic_prng.c
[-] CC ../common/lfdemod.c
[-] CC ../common/util_posix.c
[-] CC src/pm3_luawrap.c
[-] CC src/pm3_pywrap.c
[-] UIC src/ui/ui_overlays.h
[-] UIC src/ui/ui_image.h
[-] CXX src/proxguiqt.cpp
[-] MOC src/proxguiqt.moc.cpp
[-] CC src/util_darwin.m
[*] MAKE deps/amiitool/libamiibo.a
[*] MAKE deps/cliparser/libcliparser.a
[*] MAKE deps/hardnested/libhardnested.a
[*] MAKE deps/liblua/liblua.a for macosx
[*] MAKE deps/jansson/libjansson.a
[*] MAKE obj/libmbdtdls.a
[*] MAKE deps/reveng/libreveng.a
[*] MAKE deps/tinycbor/tinycbor.a
[*] MAKE deps/whereami/libwhereami.a
[=] GEN lualibs/pm3_cmd.lua
[=] GEN lualibs/mfc_default_keys.lua
[-] CC src/version_pm3.c
[-] CXX src/proxguiqt3.moc.cpp
[-] CXX src/proxgui.cpp
PLATFORM Darwin
[-] CC amiibo.c
[-] CC bmpbit.c
[=] TEST bmptst
[-] CC drbg.c
[-] CC bmpbit.c
[-] CC keygen.c
[-] CC dump.c
[-] CC aes.c
[-] CC cli.c
[-] CC asn1parse.c
[-] CC error.c
[-] CC cborencoder.c

```



```
[-] CC argtable3.c
[-] CC cborencoder_close_container_checked.c
[-] CC cliparser.c
[-] CC asn1write.c
[-] CC model.c
[-] CC hashtable.c
[-] CC poly.c
[-] CC base64.c
[-] CC whereami.c
[-] CC cborerrorstrings.c
[-] CC hashtable_seed.c
[-] CC preset.c
[-] CC load.c
[-] CC bignum.c
[-] CC cborparser.c
[-] CC reveng.c
[-] CC memory.c
[-] CC ctr_drbg.c
[-] CC cborparser_dup_string.c
[-] CC entropy_poll.c
[-] CC pack_unpack.c
[-] CC cborpretty.c
[-] CC strbuffer.c
[-] CC entropy.c
[-] CC strconv.c
[-] CC cbortojson.c
[-] CC error.c
[-] CC utf.c
[-] CC cborvalidation.c
[-] CC ecp.c
[-] CC value.c
[-] CC ecp_curves.c
[-] CC certs.c
[-] CC camellia.c
[-] CC(NOSIMD) hardnested_bf_core.c
[-] CC blowfish.c
[-] CC(NOSIMD) hardnested_bitarray_core.c
[-] CC cipher_wrap.c
[-] CC cipher.c
[-] CC cmac.c
[=] AR libwhereami.a
[-] CC(NEON) hardnested_bf_core.c
[-] CC des.c
[-] CC(NEON) hardnested_bitarray_core.c
[-] CC ecc_point_compression.c
[-] CC lapi.c
[-] CC ecdh.c
[-] CC ecdsa.c
[-] CC gcm.c
[-] CC lcode.c
[-] CC md.c
[-] CC lctype.c
[=] AR libamiibo.a
[-] CC ldebug.c
```

[ - ] CC ldo.c  
[ - ] CC md5.c  
[ - ] CC ldump.c  
[ - ] CC oid.c  
[ - ] CC lfunc.c  
[ - ] CC pem.c  
[ - ] CC lgc.c  
[ - ] CC arc4.c  
[ - ] CC llex.c  
[ - ] CC pk.c  
[ - ] CC lmem.c  
[ - ] CC pk\_wrap.c  
[ - ] CC lobject.c  
[ - ] CC pkwrite.c  
[ - ] CC pkcs5.c  
[ - ] CC lopcodes.c  
[ - ] CC pkcs12.c  
[ - ] CC lparser.c  
[ - ] CC lstate.c  
[ - ] CC pkparse.c  
[ - ] CC lstring.c  
[ - ] CC platform.c  
[ - ] CC ltable.c  
[ - ] CC platform\_util.c  
[ - ] CC ltm.c  
[ - ] CC rsa.c  
[ - ] CC rsa\_internal.c  
[ - ] CC lundump.c  
[ - ] CC lvm.c  
[ - ] CC sha1.c  
[ - ] CC lzio.c  
[ - ] CC sha256.c  
[ - ] CC lauxlib.c  
[ - ] CC sha512.c  
[ - ] CC lbaselib.c  
[ - ] CC lbitlib.c  
[ - ] CC threading.c  
[ - ] CC x509.c  
[ - ] CC lcorolib.c  
[ - ] CC x509\_crl.c  
[ - ] CC ldblib.c  
[ - ] CC liolib.c  
[ - ] CC lmathlib.c  
[ - ] CC x509\_crt.c  
[ - ] CC loslib.c  
[ - ] CC lstrlib.c  
[ - ] CC ltablib.c  
[ - ] CC loadlib.c  
[ - ] CC linit.c  
[ - ] CC hardnested\_bruteforce.c  
[ = ] AR tinycbor.a  
[ = ] AR libjansson.a  
[ = ] AR libhardnested.a  
[ = ] AR libreveng.a

```
[=] AR liblua.a
[=] AR libmbedtls.a
[=] AR libcliparser.a
[=] CXX proxmark3
sandro@MacBook-Air-di-SANDRO proxmark3 %
```