

OsmocomBB - Feature #2378

Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git

07/19/2017 02:01 PM - msuraev

Status:	New	Start date:	07/19/2017
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:			
Target version:			
Resolution:		Spec Reference:	
Description			
We now have "--enable-embedded" option for ./configure checked by jenkins for every commit in libosmocore. Hence it make sense to port osmocom-bb to it and remove copy-pasted old version from src/shared/libosmocore.			

History

#1 - 05/17/2018 12:11 PM - laforge

- Subject changed from Remove copy-pasted libosmocore to Remove copy-pasted libosmocore ("git subtree") from osmocom-bb.git

#2 - 10/22/2018 07:57 AM - pespin

- File 0001-Fix-build-against-new-libosmocore.patch added

I did some initial work regarding this topic

I made sure one can compile libosmocore with following toolchain (I had to apply similar toolchain patches that appear in the wiki page too):
<https://osmocom.org/projects/baseband/wiki/GnuArmToolchain>

I then used following flags to build libosmocore (as seen in osmocombb Makefile):

```
opt_enable="--disable-doxygen --host=arm-none-eabi --enable-embedded --disable-shared --disable-tests ac_cv_header_sys_select_h=no --disable-tests ac_cv_header_sys_socket_h=no"
export CFLAGS="-Os -ffunction-sections -I$(TOPDIR)/target/firmware/include -nostartfiles -nodefaultlibs"
```

I then modified osmocomBB Makefile to use libosmocore.a from a different directory, defining a new LIBOSMOCORE_PREFIX automake variable which can be used to point to it.

I could compile the firmware (make -C target/firmware CROSS_COMPILE=arm-none-eabi-) but it still fails at linking stage iwth some minor lining issues which still needs to be resolved.

I attach a patch with changes I did in osmocomBB so far.

```
lib/libosmocore.a(msgb.o): In function `msgb_alloc':
git/libosmocore/src/msgb.c:82: undefined reference to `talloc_named_const'
lib/libosmocore.a(logging.o): In function `const_basename':
git/libosmocore/src/logging.c:317: undefined reference to `strchr'
lib/libosmocore.a(logging.o): In function `assert_loginfo':
git/libosmocore/src/logging.c:177: undefined reference to `fprintf'
git/libosmocore/src/logging.c:181: undefined reference to `_impure_ptr'
lib/libosmocore.a(logging.o): In function `_output':
git/libosmocore/src/logging.c:359: undefined reference to `time'
git/libosmocore/src/logging.c:360: undefined reference to `ctime'
make: *** [Makefile.inc:135: board/compal_e88/hello_world.highram.elf] Error 1
```

talloc_named_const is proobably still missing in libosmocore pseudotalloc.

#3 - 10/24/2018 01:45 PM - msuraev

- Related to Feature #3666: Introduce VTY interface added

#4 - 10/24/2018 01:50 PM - msuraev

It would make sense to split this into several patches (python2 fix, LIBOSMOCORE_PREFIX etc) and send them to gerrit: except for the actual switch to upstream libosmocore, the rest can be merged already.

#5 - 10/24/2018 02:07 PM - fixeria

Related to Feature [#3666](#): Introduce VTY interface added

I am sorry, but how is this related?!? The copy-pasted libosmocore is only used by the firmware, while trxcon is linked against the recent version.

#6 - 10/24/2018 02:08 PM - fixeria

- Related to deleted (Feature #3666: Introduce VTY interface)

#7 - 10/24/2018 02:13 PM - pespin

Python fix already merged in osmocom-bb f6e1429f804d4001dd71491f966f82763e30360f

Files

0001-Fix-build-against-new-libosmocore.patch	4.6 KB	10/22/2018	pespin
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