Compilation on the switch

Thursday, November 10, 2016 10:37 AM

Trying to compile ZMQ on the switch. Ran into this issue.
CC src/src_libzmq_la-tweetnacl.lo
CXXLD src/libzmq.la
g++: error: /usr/lib/gcc/i686-linux-gnu/4.9/../../../i386-linux-gnu/crti.o: No such file or directory
g++: error: /usr/lib/gcc/i686-linux-gnu/4.9/crtbeginS.o: No such file or directory
g++: error: /usr/lib/gcc/i686-linux-gnu/4.9/crtendS.o: No such file or directory
g++: error: /usr/lib/gcc/i686-linux-gnu/4.9/../../../i386-linux-gnu/crtn.o: No such file or directory
Makefile:2283: recipe for target 'src/libzmq.la' failed
make[1]: *** [src/libzmq.la] Error 1
make[1]: Leaving directory '/mnt/usb/ZMQ/libzmq'
Makefile:4025: recipe for target 'install-recursive' failed
make: *** [install-recursive] Error 1
root@localhost:/mnt/usb/ZMQ/libzmq#

I also faced this issue:

possibly undefined macro: AC_MSG_ERROR

From <http://stackoverflow.com/questions/8811381/possibly-undefined-macro-ac-msg-error>

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117 I had this same issue and found that `pkg-config` package was missing.

After installing the package, everything generated correctly.

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edited Oct 13 at 17:27 Tombart 11.4k ● 5 ● 58 ● 69

answered Jan 26 '12 at 20:00 mutsu 1,186 ● 1 ● 6 ● 2

Had to install pkg-config and then run autogen again and then ./configure.. Triggered a build using sudo make.
Need to check how it would behave.

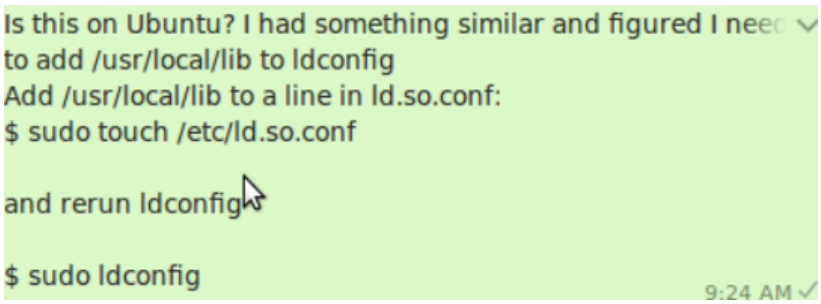
And it worked.

NOTE: I also Un-installed and Installed GCC.

Ran into this issue while make install of Monitor-automata

make[2]: Leaving directory '/mnt/usb/Monitor-automata'
make[1]: Leaving directory '/mnt/usb/Monitor-automata'
root@localhost:/mnt/usb/Monitor-automata# Monitor-automata
Monitor-automata: error while loading shared libraries: libzmq.so.5: cannot open shared object file: No such file or directory
root@localhost:/mnt/usb/Monitor-automata#

Fix is as below.



dpkg -L libxml2 using this command to trace the libxml2 on the switch.
It has libxml2 already installed. Need to install other Softwares such as libxml and libxml-dev

I also need to compile NETCONF server side today on the switch and see how it goes.

Other libraries required on the switch for Monitor-automata compilation.
libxml2-dev is required.

Use this command to check if the library path ito libxml2 is included as part of LD linking

How to print the ld(linker) search path --> this is under linux commands tab of this document.

Created another folder on my VM called mon-auto-exp-for-ONL --> Idea is to try and link OpenNSL library in this folder on my UBUNTU VM and see how it goes. This I did not try eventually…

NOTE: I could execute the example applications provided with the package just by following the INSTALL document.
I tried the default CDP package i.e. 3.0.2.4 -cdp on the DEF installer available on my switch. :-)

HUGE SUCCESS!!!

Below is the logs:

```
root@localhost:/mnt/usb/opennsl-3.2.0.4-cdp/bin/as5712# chmod +x example_bst
root@localhost:/mnt/usb/opennsl-3.2.0.4-cdp/bin/as5712# ./example_bst
Initializing the system.
Platform default configuration is used
Platform Boot flags: 0x0
DMA pool size: 16777216
PCI unit 0: Dev 0xb854, Rev 0x03, Chip BCM56854_A2, Driver BCM56850_A0

Initializing platform
Device Configuration - SUCCESS!
SOC unit 0 attached to PCI device BCM56854_A2
Boot flags: Cold boot
rc: unit 0 device BCM56854_A2
Set age timer to 300.
rc: common SDK init complete
Common SDK init completed
rc: platform SDK init complete
OF-DPA is initialized successfully.
Adding ports to default vlan.
Default BST profiles are set successfully.
BST callback for triggers is registered.
BST feature is enabled.

User Menu: Select one of the following options
1. Enable/Disable BST feature.
2. Display BST statistics of a port.
3. Clear BST statistics of a port.
9. Launch diagnostic shell
0. Quit the application.
0
Exiting the application.
root@localhost:/mnt/usb/opennsl-3.2.0.4-cdp/bin/as5712# ./example_bst
Initializing the system.
Platform default configuration is used
Platform Boot flags: 0x0
DMA pool size: 16777216
PCI unit 0: Dev 0xb854, Rev 0x03, Chip BCM56854_A2, Driver BCM56850_A0

Initializing platform
Device Configuration - SUCCESS!
SOC unit 0 attached to PCI device BCM56854_A2
Boot flags: Cold boot
rc: unit 0 device BCM56854_A2
Set age timer to 300.
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User Menu: Select one of the following options
1. Enable/Disable BST feature.
2. Display BST statistics of a port.
3. Clear BST statistics of a port.
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```

2

Enter the port number.
1
BST Counter: opennslBstStatIdUcast for COS queue: 0 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 1 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 2 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 3 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 4 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 5 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 6 is : 0
BST Counter: opennslBstStatIdUcast for COS queue: 7 is : 0

BST Counter: opennslBstStatIdMcast for COS queue: 0 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 1 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 2 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 3 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 4 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 5 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 6 is : 0
BST Counter: opennslBstStatIdMcast for COS queue: 7 is : 0

BST Counter: opennslBstStatIdPriGroupShared for COS queue: 0 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 1 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 2 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 3 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 4 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 5 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 6 is : 0
BST Counter: opennslBstStatIdPriGroupShared for COS queue: 7 is : 0

BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 0 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 1 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 2 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 3 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 4 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 5 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 6 is : 0
BST Counter: opennslBstStatIdPriGroupHeadroom for COS queue: 7 is : 0

Compilation was successful on the switch. Sample application worked! Now I am one step closer to my graduation perhaps!!! Good news of my life!!! :-) :-):-) 24.11.2016

There is a sample application on the Kingston pendrive under Monitor-automata.
Copied OpenNSL include folder under monitor-automata/src

And then included the header files in my source files as #include "./include/blablabla/blablabla.h"

Changed the Makefile.am to compile util.c --> which is copied in the same place where monitor-automata.c is present.

Also included _CFLAGS to point to -I"../src/include"

And then linked the library as lopennsl along with the other libraries listed in MakeFile.am

It was a simple change I made in monitor-automata.c i.e. to invoke only opennsl_driver_init() function from