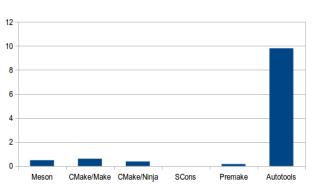


- DPDK17.11 Meson introduced
  - More parallel , builds faster

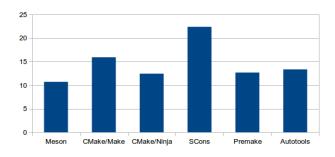
DPDK 20.05 – Make deprecated

DPDK 20.11 – Make removed

#### Configuration time



**Build time** 













pkg-config









```
1 #configure DPDK target
2 make config T=x86_64-native-linuxapp-gcc
```

```
1 #configure DPDK build using Meson
2 CC=gcc meson --prefix=$(pwd)/build -Dtests=false build
3
```

```
12 #build DPDK
13 make -j4 EXTRA_CFLAGS='-fPIC'
```

```
4 #build and install DPDK using ninja
5 ninja -C build
6 ninja -C build install
7
8 # Update the library paths.
9 sudo ldconfig
```

```
14 # Export the following path for pkg-config to find the .pc file.
15 export PKG_CONFIG_PATH=$DPDK_LIB/pkgconfig/:$PKG_CONFIG_PATH
```









```
#configure DPDK build using Meson
#configure DPDK target
make config T=x86 64-native-linuxapp-gcc
                                                                              CC=gcc meson --prefix=$(pwd)/build -Dtests=false build
#for Shared libraries:
sed -i '/CONFIG RTE BUILD SHARED LIB=n/s/=n/=y/' build/.config
#build DPDK
                                                                               #build and install DPDK using ninja
make -j4 EXTRA CFLAGS='-fPIC'
                                                                               ninja -C build
                                                                               ninja -C build install
                                                                               # Update the library paths.
                                                                               sudo ldconfig
                                                                               DPDK_LIB=$(pwd)/dpdk-dir/build/lib/x86_64-linux-gnu
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$(pwd)/$TARGET/lib
                                                                               export LD LIBRARY PATH=$DPDK LIB/:$LD LIBRARY PATH
```

14 # Export the following path for pkg-config to find the .pc file. export PKG CONFIG PATH=\$DPDK LIB/pkgconfig/:\$PKG CONFIG PATH

### Impact on OVS

Full support for DPDK Meson build in OVS(master) from DPDK 20.11

Only change in "-with-dpdk" configuration option:

Also possible:

\$./configure --with-dpdk=yes

Assumes DPDK static libraries must be consumed.

Note: Full support for DPDK Meson build in OVS(dpdk-latest) from DPDK 20.08

#### Reference

- https://doc.dpdk.org/guides/prog\_guide/build-sdk-meson.html
- https://doc.dpdk.org/guides/linux\_gsg/build\_dpdk.html
- https://www.youtube.com/watch?v=bQU3LhYOFTw
- <a href="https://dpdkuserspace2020.sched.com/event/e47F/cheat-sheet-to-migrate-from-gnu-make-to-meson-vipin-varghese-siva-tummala-intel">https://dpdkuserspace2020.sched.com/event/e47F/cheat-sheet-to-migrate-from-gnu-make-to-meson-vipin-varghese-siva-tummala-intel</a>
- http://patchwork.ozlabs.org/project/openvswitch/patch/20200902180629.29573-1-sunil.pai.g@intel.com/
- http://patchwork.ozlabs.org/project/openvswitch/patch/20201111113401.66709-1-sunil.pai.g@intel.com/

# Thank You! ?Questions?

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