

## Embedded System Architecture 2 LAB 2

#### **FALL 2019**

**INSTRUCTOR:** Mohsen Salahi

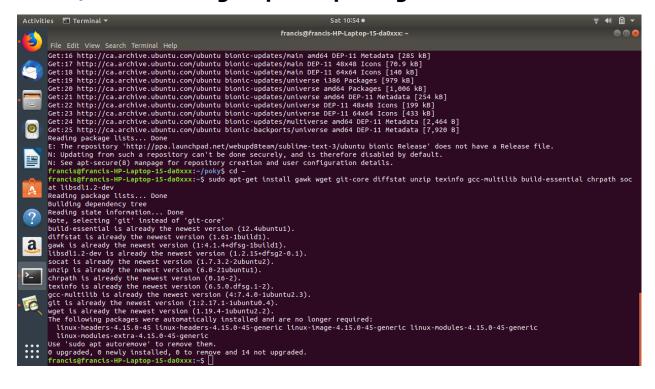
**CLASS: ESE 3005** 

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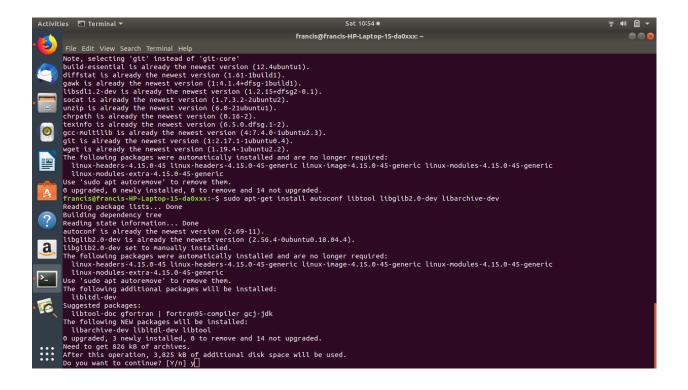
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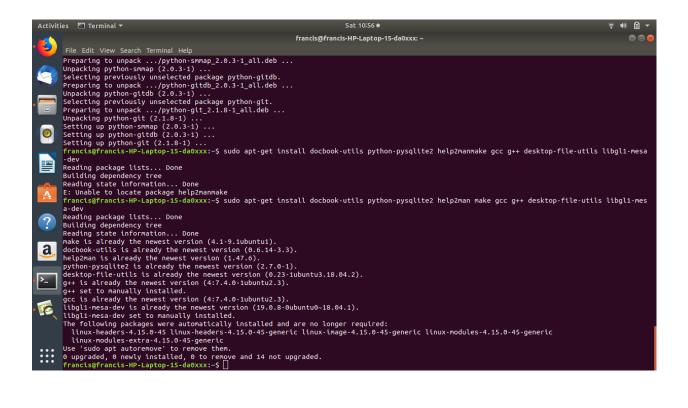
#### Environment setup of Yocto in DART-MX6

#### 1) Downloading required packages



#### 2) Cooking the image and running it using qemu emulator





```
Activities Terminal * Sat 1055 * Francis@frands-HP-Laptop-15-dabxxx:-

File Edit View Search Terminal Help

Francis@frands-HP-Laptop-15-dabxxx:-S sudo apt-get install python-glt xterm sed cvs subversion coreutils text2html

Reading package Lists... Done

Reading state Linfornation... Done

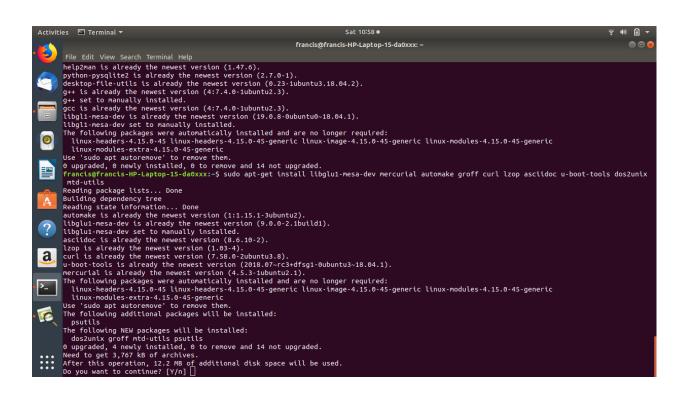
Reading state Linfornation... Done

coreutils is already the newest version (6.28-lubuntul).

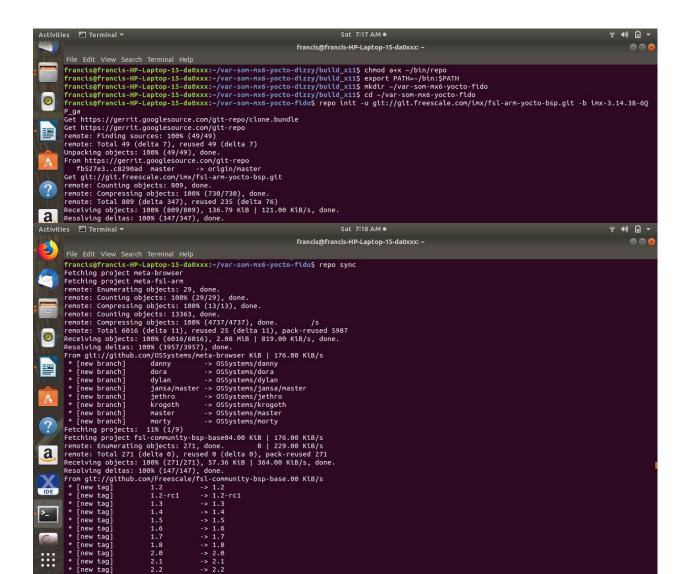
sed is already the newest version (2.21.12).lisreal-26).

subversion is already the newest version (1.9.7-44buntul).

**Example of the search of the
```



## 2) Downloading the Yocto Fido

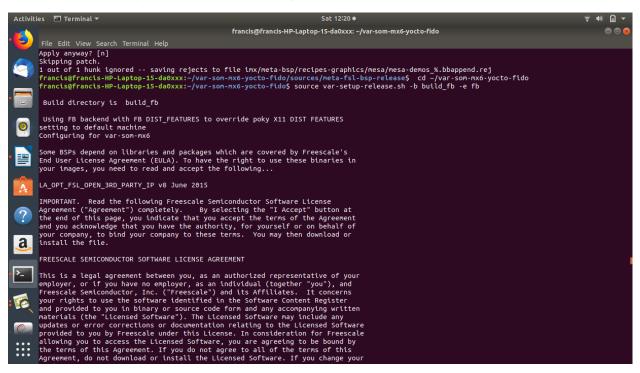


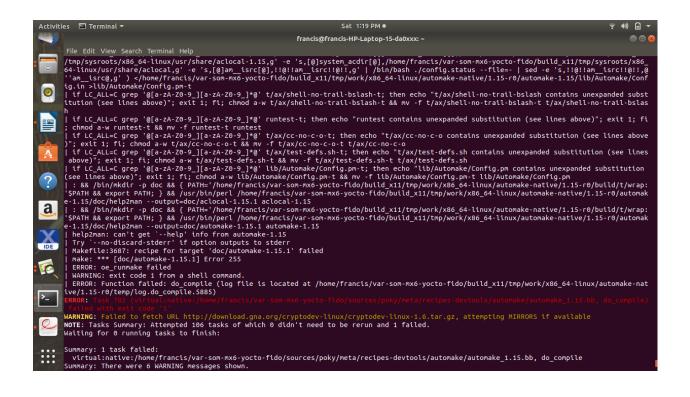
# 3) **Downloading Yocto Fido i.MX6 with Meta Variscite VAR-SOM-MX6 support**

```
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido$ cd -/var-som-mx6-yocto-fido/sources
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources$ glt clone https://github.com/varigit/meta-variscite-imx.glt -b imx_3.14.

38.6qp-var02 meta-variscite-mx6'...
remote: Enumerating objects: 100% (387/387), done.
remote: Counting objects: 100% (387/387), done.
remote: Counteresting objects: 100% (387/387), done.
remote: Compressing objects: 100% (3687/3887), done.
Recolving objects: 100% (3687/3687), 1.32 MiB | 2.42 MiB/s, done.
Resolving deltas: 100% (1887/1887), done.
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources$ cp meta-variscite-mx6/scripts/var-setup-release.sh ../
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources$ cd meta-fsl-bsp-release
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources$ cd meta-fsl-bsp-release
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources/meta-fsl-bsp-release$ patch -p1 < ../meta-variscite-mx6/patch/0001-Fix-FS
L-multi-patch-append-bug.patch
patching file imx/meta-bsp/recipes-multimedia/gstreamer/gstreamer1.0-plugins-bad_%.bbappend
Hunk #1 succeeded at 59 with fuzz 1 (offset 9 lines).
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources/meta-fsl-bsp-release$ patch -p1 < ../meta-variscite-mx6/patch/0001-Fix-FS
L-multi-platform-on-mesa-demos.patch
patching file imx/meta-bsp/recipes-graphics/mesa/mesa-demos_%.bbappend
francis@francis-HP-Laptop-15-da0xxx:-/var-som-mx6-yocto-fido/sources/meta-fsl-bsp-release$ patch -p1 < ../meta-variscite-mx6/patch/0001-Fix-FS
L-multi-patch-append-bug.patch
patching file imx/meta-bsp/recipes-multimedia/gstreamer/gstreamer1.0-plugins-bad_%.bbappend
Reversed (or previously applied) patch detected! Assume -R? [n]
Apply anyway? [n]
```

### 4) Building and setting up Yocto





The bitbake process was showing an error (Task 782 (virtual:native:/home/francis/var-som-mx6-yocto-fido/sources/pok y/meta/recipes-devtools/automake/automake\_1.15.bb,

do\_compile), where do\_compile is shell function, failed with exit code '1' which made the entire process to fail to bring back a non-zero exit code. The same process was repeated and the result was the same.

#### 5 ) Customization of local.conf file

