

## DIRECTORY STRUCTURE -TUTORIAL

### A. Setting up your first ASIP project directory structure

1. Login to any *i80labpcXX.ira.uka.de* directly or using SSH or using X2Go Client. For example, login as *asip-sajjad04* into *i80labpc02.ira.uka.de*
2. Open shell terminal from the start menu. It should be in your default home directory. Type “*pwd*”

```
asip04@i80labpc04:~:$pwd
/home/asip04
```

3. Create a new directory for your Lab e.g. “*ASIP\_SS17*”

```
asip04@i80labpc04:~:$mkdir ASIP_SS17
asip04@i80labpc04:~:$cd ASIP_SS17/
```

4. Create a new directory for your lab session in “*ASIP\_SS17*” e.g. “*Session1*”

```
asip04@i80labpc04:~/ASIP_SS17:$mkdir Session1
asip04@i80labpc04:~/ASIP_SS17:$cd Session1/
```

5. Create a directory for your ASIP project in “*Session1*”

```
asip04@i80labpc04:~/ASIP_SS17/Session1:$mkdir ASIPMeisterProjects
asip04@i80labpc04:~/ASIP_SS17/Session1:$cd ASIPMeisterProjects/
```

6. Copy template project and rename it e.g. “*brownie*”

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects:$cp -r /home/asip00/epp/ASIPMeisterProjects/TEMPLATE_PROJECT
./brownie
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects:$ls
brownie
```

7. Set the parameters and settings of the ASIP project in “*env\_settings*” file.
8. For each application, create a new directory into “*Application*” directory e.g. for example for application “*Arith*”

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects:$cd brownie/Applications/
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$ls
Bootloader TestPrint
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$mkdir Arith
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$cd Arith/
```

9. Copy your application .c or .s file into “*Arith*” e.g. in this case copy “*1\_Arith.s*” into your application directory

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/Arith:$cp /home/asip00/Session1/1_Arith.s .
```

10. Copy the Makefile from any other application to your application

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/Arith:$cp ../TestPrint/Makefile .
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/Arith:$ls
1_Arith.s Makefile
```

11. For other application, create a new directory into “*Application*” directory e.g. “*LS*”

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$mkdir LS
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications:$cd LS/
```

12. Copy your application .c or .s file into “*LS*” e.g. in this case copy “*2\_LoadStore.s*” into your application directory

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/LS:$cp /home/asip00/Session1/2_LoadStore.s .
```

13. Copy the Makefile from any other application to your application

```
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/LS:$cp ../TestPrint/Makefile .
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects/brownie/Applications/Arith:$ls
2_LoadStore.s Makefile
```

### B. Creating new ASIP project in the same session

14. Create a new directory “*brownieBGEU*” for new project under ASIPMeisterProjects.

```
asip04@i80labpc04:~:$cd ASIP_SS17/Session1/ASIPMeisterProjects/
asip04@i80labpc04:~/ASIP_SS17/Session1/ASIPMeisterProjects:$cp -r /home/asip00/ASIPMeisterProjects/TEMPLATE_PROJECT
./brownieBGEU
```

15. Follow the same steps (7-12) to create different application under this project

**C. Creating new Session e.g. “Session2”**

16. Creating new directory for new session under ASIP\_SS17 directory

```
asip04@i80labpc04:~/ASIP_SS17:$mkdir Session2
```

```
asip04@i80labpc04:~/ASIP_SS17:$ls
```

```
Session1 Session2
```

```
asip04@i80labpc04:~/ASIP_SS17:$
```

17. Follow the same steps (6-14) to create different application under this project