# How to run QNX on GCS public computer 

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## Account

As a COEN320 student, you can access GCS public computer labs (H813 and H815) by using the doorcode in the campus, then use GCS account to log in a workstation in public computer room.

## Real-time Workspace

When you log in a workstation, the system will map your ENCS drives, more information can be found at AITS Data Storage webpage.

Use Windows File Explore to open your G: drive, then create a QNX workspace for your COEN320 projects:

## G:|realtime\coen320

Momentics IDE uses the workspace directory to store its preferences and development artifacts.

## Launch QNX Momentics IDE

- Click the 'qnx' icon Momentics on the desktop, to launch QNX Momentics IDE.
- Select your coen320 workspace

- Then IDE shall be shown as


## Create QNX project

- From the menu, choose File - New - QNX Project
- Choose C/C++, then QNX Excitable, click Next button.
- Input your project name, choose C++, CPU Varaint as 'aarch64le'. Note: 64-bit versions of ARM (aarch64) is used on Pi4.

- Click Finish


## Connect a real-time target

When you debug real-time code, you will need a real-time target:

- click the target prompt, then choose 'New Launch Target’ as below shown:

- Choose 'QNX Target', then click Next

| New Launch Target | $\square$ |
| :--- | :--- |
| New Launch Target |  |
| Select the type of target to create. |  |

```
&& GDB Remote Serial
& GDB Remote TCP
`. Generic Target
~QNX Serial Port Connection
    - QNX Target
    QNX Virtual Machine Target
```

? $\square$ Finish Cancel

- Input IP as 192.168 .141 .9 or 192.168.141.10, then click Finish. Note: $E C E$ has launched two Raspberry Pi4 as Real-time targets now.

| e New QNX Target |  | $\square \times$ |
| :---: | :---: | :---: |
| New QNX Target |  |  |
| Please specify the details of your QNX target. |  |  |
| Target NameSame as hostname |  |  |
|  |  |  |
| Target Name: 192.168 .141 .9 |  |  |
| Connection |  |  |
| Hostname or IP: 192.168.141.9 |  | Port: 8000 |
| Create a QNX Virtual Machine Target Instead |  |  |
| (3) < Back Next > | Finish | Cancel |

## - Click Run



For more information, please visit QNX v7.1 Quickstart Guide.

