

How to run QNX on GCS public computer

Dan Li, dan.li@concordia.ca

September, 2023

Account

As a COEN320 student, you can access [GCS public computer labs \(H813, H815, H903, H929 and H967\)](#) 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:

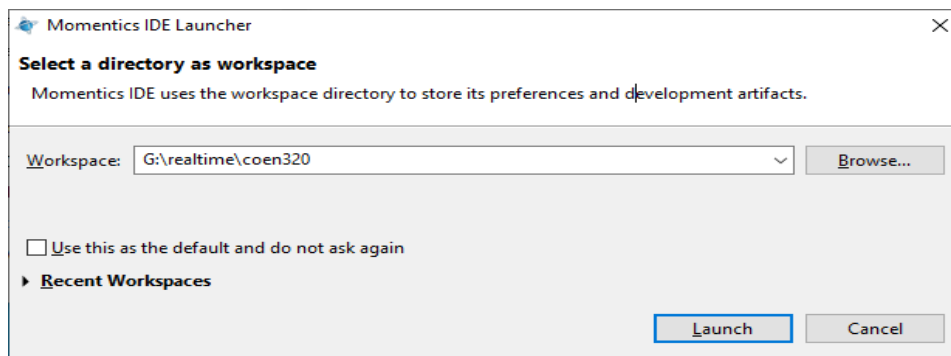
G:\realtime\coen320

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

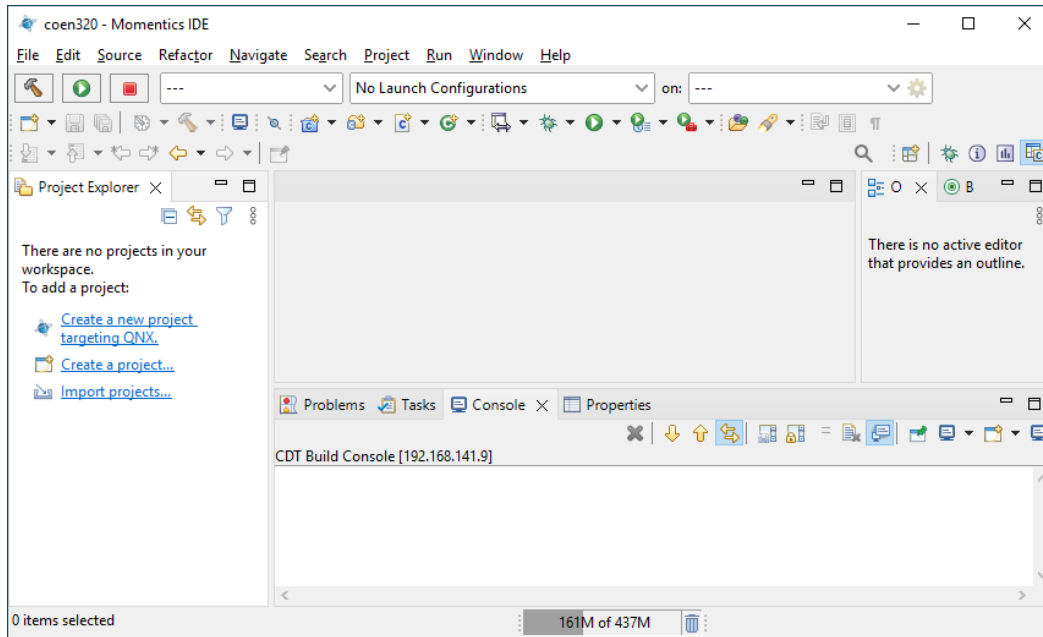
Launch QNX Momentics IDE



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

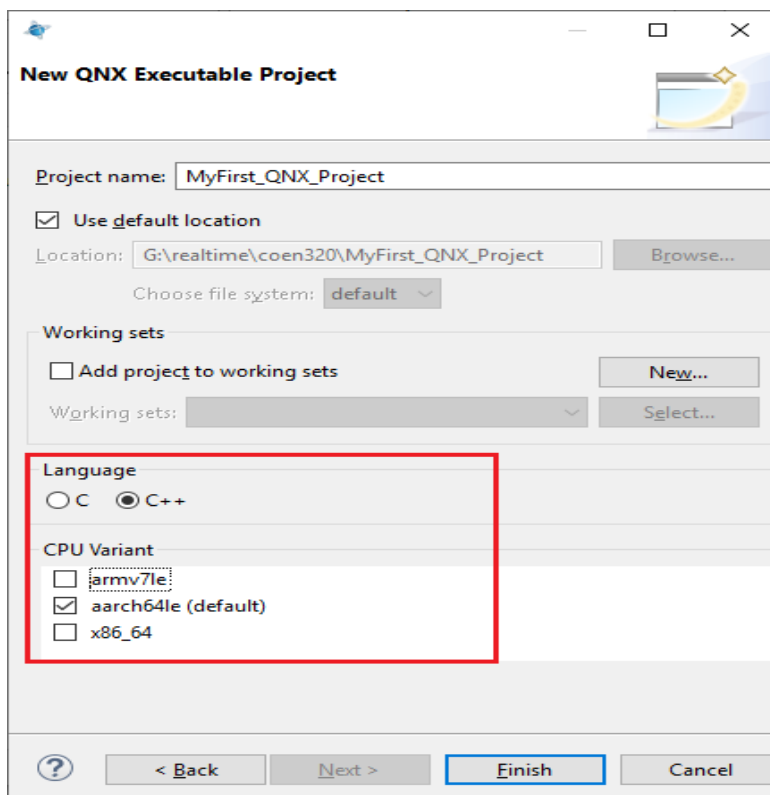


- Then IDE shall be shown as



Create QNX project

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

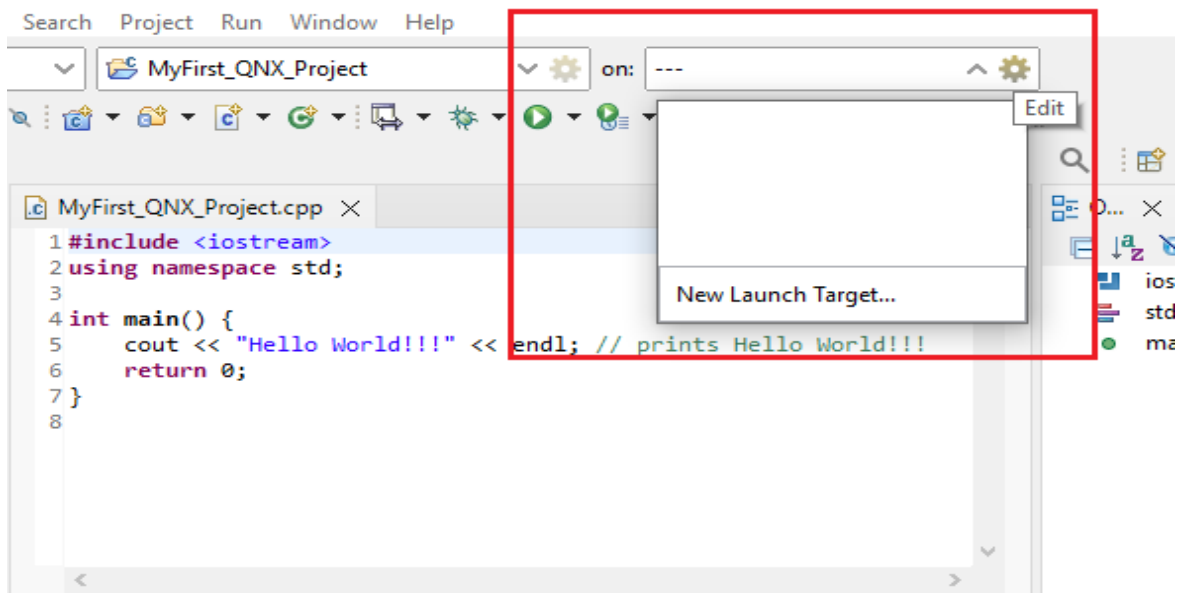


- Click Finish

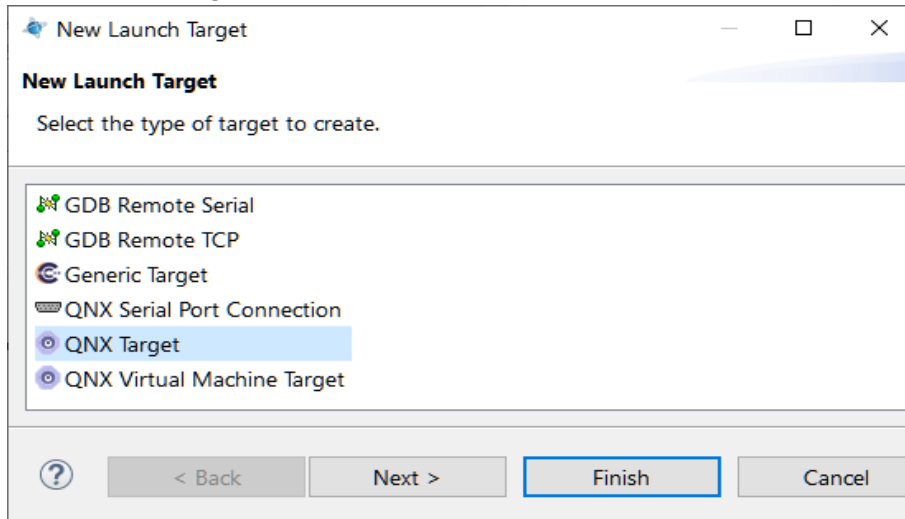
Connect a real-time target

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



- Input IP as **192.168.141.9** or **192.168.141.10**, then click Finish. **Note:** ECE has launched two Raspberry Pi4 as Real-time targets now.

New QNX Target

Please specify the details of your QNX target.

Target Name

☒ Same as hostname

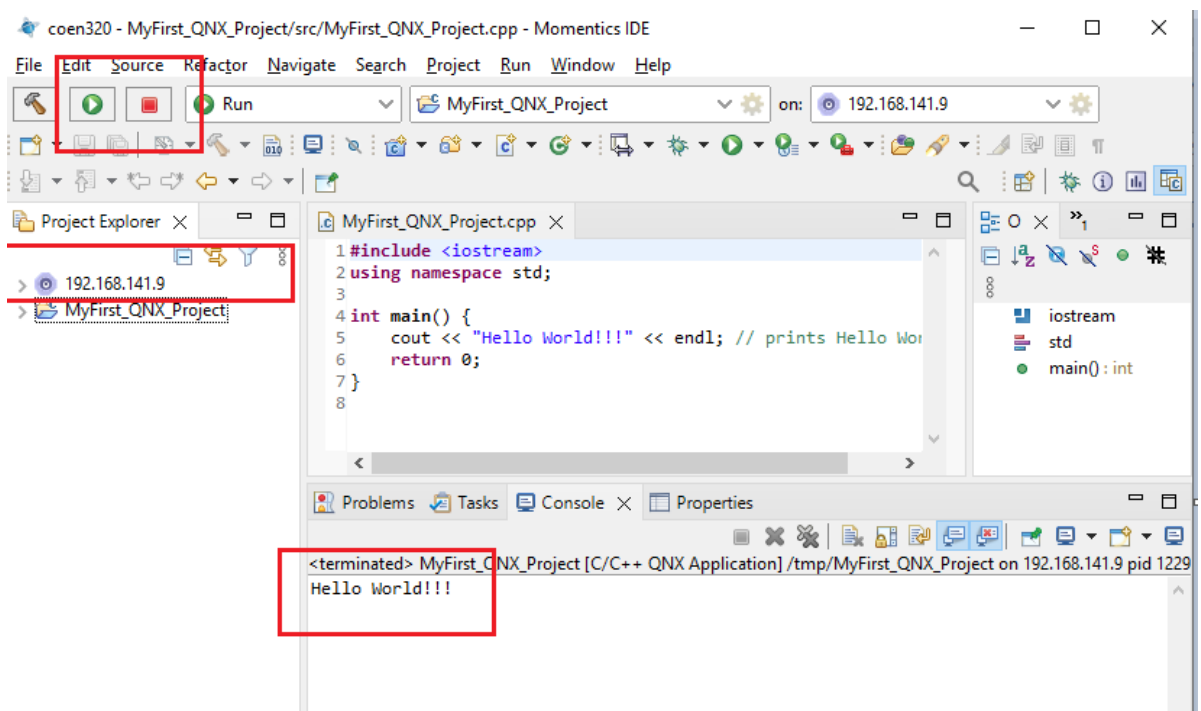
Target Name: 192.168.141.9

Connection

Hostname or IP: 192.168.141.9 Port: 8000

Create a QNX Virtual Machine Target Instead

- Click Run



For more information, please visit QNX v7.1 [Quickstart Guide](#).