

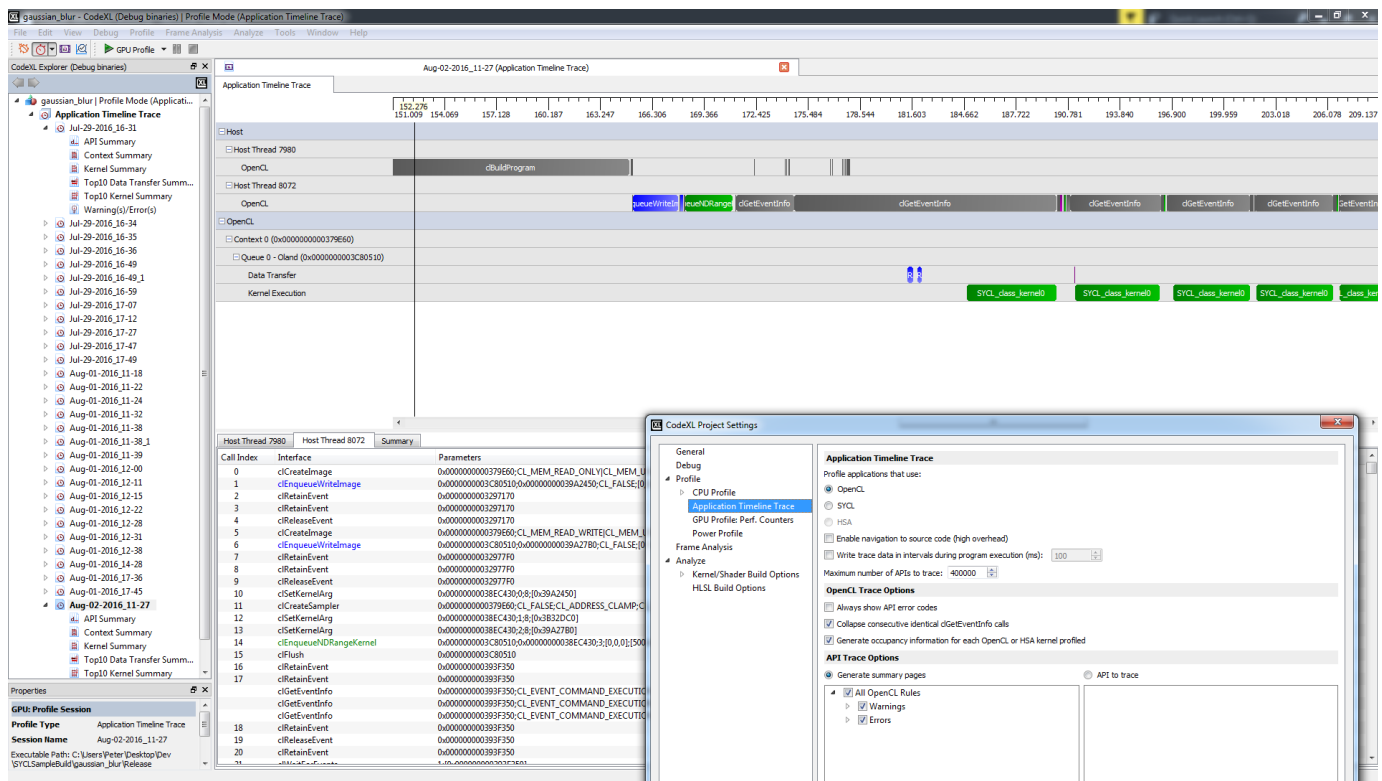
CodeXL - Adding SYCL backend option to project settings

The API we choose to use for tracing is set in project settings Profile Application Timeline Trace using radio buttons. For SYCL, we want to profile using both the OpenCL and SYCL trace agents. We decided to add one radio button called SYCL for choosing both SYCL and OpenCL. We could however separate these out so the user could choose only SYCL, or perhaps another combination of APIs using checkboxes instead.

To add the radio button we must modify the `OpenCLTraceOptions` class in `OpenCLTraceSettingPage.h` as follows:

1. add a SYCL QRadioButton member alongside the OpenCL and HSA radio buttons
2. initialize button in OpenCLTraceOptions::Initialize()
3. add button to QButtonGroup* pGroup and to pMainLayout (using addWidget) in Initialize()
4. connect button to click event using:
`rc = connect(m_pSYCLRadioButton, SIGNAL(clicked()), this, SLOT(OnAPITypeRadioButtonToggled()));`
5. connect In RestoreCurrentSettings(), SaveCurrentSettings() and OnAPITypeRadioButtonToggled() if button is selected, set APIToTrace to APIToTrace_SYCL which is defined alongside APIToTrace_HSA and APIToTrace_OPENCL

This now gives us our new radio button in the settings menu below:



If we toggle this on, it will link up with our SYCL backend and display both the OpenCL and SYCL traces:

