Remote Building Instructions

Remote building allows users to build an application from a remote device using the host's toolchain (i.e. compiler, libraries, binaries). The following steps assume that you are logged into the *Insight* machine.

1. Turn on EyeRIS using the the plug icon, which can be found in Insight on the Resources > EYERIS MACHINE tab

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- 2. Clone your experiment code repository in a suitable place
 - i.e. %homedrive%%homepath%\Documents\eyeris_plugins\user_tasks for windows
- 3. Open CLion Application
- 4. Open your project's root folder

😫 Open File or Project	×						
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C:\Users\ruccilab\Documents\eyeris_plugins\user_tasks\timing-diagnostics							
 Documents Custom Office Templates 							
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> include > include							
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Drag and drop a file into the space above to quickly locate it in the tree							
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- 5. Open settings by navigating to File > Settings... or pressing Ctrl + Alt + S
- 6. Navigate to Build, Execution, Deployment > CMake
 - 1. Click the + icon to add a new CMake build profile
 - 2. Set the **Build Type** to RelWithDebInfo
 - This will automatically change the Name field
 - 3. Set the **Toolchain** to Remote Host
 - 4. Optionally, you may remove the default Debug profile by selecting it and clicking the _____ icon
 - 5. Click Apply

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Q•	Build, Execution, Deploy	\leftarrow \rightarrow					
> Appearance & Behavior Keymap	Reload CMake project on editing CMakeLists.txt or other CMake configuration files External changes, such as VCS update, always trigger project reload						
Editor Plugins Version Control	Profiles Profile is a named set of t when needed.	Profiles Profile is a named set of build options. For example, create separate profiles for Debug and Release builds and switch between the when needed.					
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CMake	A Debug		Debug	Share			
Compilation Database 🛛 🗖 Custom Build Targets 🔹		Build type:	Debug				
Makefile		Toolchain:	Use default MinGW				
> Debugger			Use default Ninja				
Python Debugger 🛛 🖬 Python Interpreter 🔹		CMake options:	-G Ninja -DCMAKE_BUILD_TYPE=Debug Use -DVAR_NAME=value to set variables, -G				
Console		Build directory:					
Coverage		Build options:					
Required Plugins Run Targets Trusted Locations							
?				OK Cancel Apply			

7. Navitage to Build, Execution, Deployment > Deploymet

- 1. Select the first Remote Host under Mk2 EyeRIS Machine
- 2. Select the Mappings tab
- 3. Change the **Deployment path** to the directory in which your project will be copied to on the EyeRIS machine

This directory is: /home/eyeris/runtime/dev_ws/user_tasks/<name of you project/>

If there is NOT already a folder with this name, create one using the path selection UI.

4. Click Ok

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~	Build, Execution, Deployment		Deployment path:		eris/runtime/dev_ws/user				
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	Makefile		A <u>d</u> d New Map						
	> Build Tools								
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	Python Interpreter								
	> Console								
	Coverage								
	> Docker								
	> Dynamic Analysis Tools								
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8. Click the green hammer in the top bar to build your project