



How to debug a user space application with STM32CubeIDE

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==Create a "user space" project== *Open the new C project wizard: "File -> New -> Project... C Project".
 [[File:CDTExeCreation.png|400px|thumb|center|"New C project wizard"]] * In the first window, choose ""OpenSTLinux SDK"" [[File:CDTExeCreationCProject.png|400px|thumb|center|"New C project wizard"]] * Then ""Next"" to set up configuration [[File:CDTExeCreationCProjectNext.png|400px|thumb|center|"New C project wizard"]] * and ""Next"" to choose the SDK version [[File:CDTExeCreationCProjectNextNext.png|400px|thumb|center|"New C project wizard"]] *To populate this project with file ""main.c"", first select project, then right-click "New -> File ->" main.c, and then fill it with some C code.

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==Create GtkHelloWorld user space project== In Cortex[@]-A7 sub-project context, named here ""MP157C-DK2_CA7"", right-click and select ""Create a userspace Project...""

 [[File:UserSpaceShortCut.png|400px|thumb|link=|center|"User space project wizard shortcut"']] Here, an "Executable" project type in C language is selected. Note that the user space project uses by default the SDK version associated to the Cortex[@]-A7 sub-project.
 [[File:CubeIDEUserSpaceGtkCreation.png|400px|thumb|link=|center|"User space project creation wizard"']]

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==Create a user space executable project== In the Cortex[@]-A7 sub-project context, named here ""MP157C-DK2_CA7"", right-click and select ""Create a userspace Project...""

 [[File:UserSpaceShortCut.png|center|400px|thumb|"User space project wizard shortcut"']] In the example, an executable project type in C language is selected. Note that the user space project uses by default the SDK version associated to Cortex[@]-A7 sub-project.
 [[File:UserSpaceProjectCreationWizard.png|400px|thumb|center|"User space project creation wizard"']]

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==Create a user space shared library project== In the Cortex[®]-A7 sub-project context, named here "MP157C-DK2_CA7", right-click and select "Create a userspace Project..."
 [[File:UserSpaceShortCut.png|400px|thumb|center|"User space project wizard shortcut"]] A "Shared Library" project type, in C language, is selected. Note that the user space project uses by default the SDK version associated to the Cortex[®]-A7 sub-project.
 <div class="res-img"> [[File:CubeIDEUserSpaceSharedLibCreation.png|center|"User space shared library creation"]] </div>

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==Create a user space static library project== In the Cortex[®]-A7 sub-project context, named here "MP157C-DK2_CA7", right-click and select "Create a userspace Project..."
 [[File:UserSpaceShortCut.png|400px|thumb|center|"User space project wizard shortcut"]] Here, the "Static Library" project type, in C language, is selected. Note that the user space project uses by default the SDK version associated to the Cortex[®]-A7 sub-project.
 [[File:CubeIDEUserSpaceStaticLibCreation.png|400px|thumb|center|"User space project creation wizard"]]

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