

# Creating multiple targets in Keil

Sometimes, we need to have multiple targets in Keil. For example, we can have one target for the main application and have another target for the unit test of the functions in the project. Suppose we have the application target already and want to add the test target. Here are the steps to follow.

1. Creating folders for the new source files on the computer. This is optional; we can just save the new files in the same **source** folder.
2. Adding groups in the Keil project to hold new files. For example, add a group named **Source-test functions**. This can be done by right-clicking the existing target and choose **Add Group**. This step can be done at a later time as well.
3. Adding the needed files in the new group.
4. Creating a new target. Click the **Manage Project Items** icon (or **Project** → **Manage** → **Project Items...**). In the popup window, click the **New (Insert)** icon in the **Project Targets** pane to add a new target.
5. Adding groups if you have not done so in the middle pane.
6. Adding files to each group as needed. This can be done in the **Project** pane of uVision as well.
7. Configuring the targets. Click to choose the appropriate target on the toolbar. Exclude those files that are not needed for the target. Right-click the file you want to exclude and choose **Options for File 'xxx'**. In the popup window, choose the **Properties** pane and uncheck **Include in Target Build**. Repeat this step for all the targets. Those files that are excluded will be displayed differently in their icons.