

Creating Matlab Compiled Executables

Start the Matlab Environment.

For first time use, you need to setup the Matlab compiler, so type the following in the Matlab command window

```
mbuild -setup
```

Then from Matlab's start menu, select:

```
START > MATLAB > MATLAB Compiler > Deployment Tool (deploytool)
```

1. In the deployment tool's toolbar, select a "new deployment project".
2. You will then get the choice of creating a "Standalone Application", a "C Shared Library", or a "C++ Shared Library". Select "Standalone Application".
3. Give the project a name – this will be create a folder of the same name and on successful compilation, will also be the name of the resultant compiled executable.

You will now see a directory tree of:

- Main function
- Other files
- C/C++ files

Your main top-level m-file code needs to go into the main function folder.

Additional files containing support functions can be dragged into the "Other files" section.

If you are using a mex C-function – first compile the c code either on the unix or matlab command line terminal. The resultant mexa64 file can be deployed in the **other files** folder.

The project can now be built using the toolbar icon.

Looking inside your project folder, inside the "distrib" subfolder, you should find a file with the same name as your project (no file extension). This is the standalone Matlab compiled executable. This file can be run from the command line, assuming the runtime library is available.