

Notes for MPLAB IDE users

Thomas Braipson

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1 Creating a project

1. Open MPLAB IDE
2. File → new project
3. In the dialog box, click next
4. In the dialog box, select PIC16F1789 as device, then click next
5. In the dialog box, click next
6. In the dialog box, as compile toolchain, select pic-as, click next
7. In the dialog box, chose a name for your project and optionally modify its location on your disk, click finish
8. Right-click on the name of your project and select properties (last item of the list)
9. In the dialog box, select pic-as Linker and in “additional options”, paste this line `-Wa,-a -Wl,-preset_vec=0h -Wl,-pisr_vec=4h`

2 Adding a source file

Your project is now ready to contain a source file

1. Click on source files and then File → New file
2. In the dialog box, select Assembler, click next
3. In the dialog box, give your file a name **without .asm extension**, click finish
4. An empty .asm file is now available, copy-paste or type your program in there

3 Compiling and programming

To compile your code, click on “build project” (hammer icon). To program your code, it is very unlikely that MPLAB IDE will be able to communicate with the PICKIT BASIC. You can try, by clicking on the “run project” (green triangle icon). If an error message is reported (whatever it says), it means that the communication failed and it is time to open MPLAB IPE. To find the .hex file, find where your project is located and then follow this directory chain: dist → default → production → myFile.hex .