



SW HW CO-Design

Lecture 0
Creating New Project

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Welcome To AVR Interfacing

OBTAINING INSTALLER



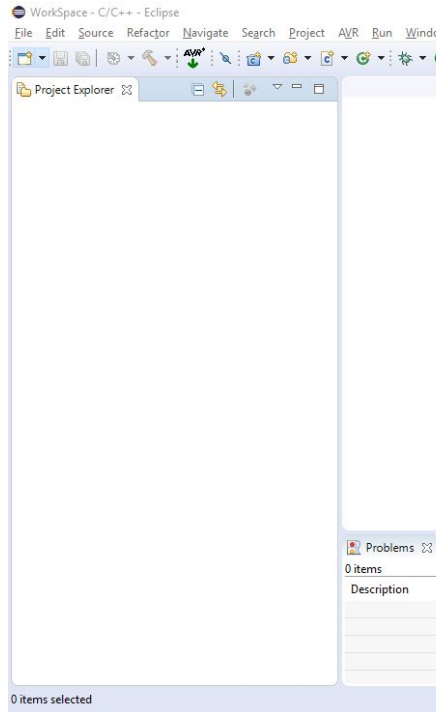
An abstract graphic on the left side of the slide. It features a central orange circle with the white number '01' inside. This circle is connected by a thick orange line to a larger, dark grey circle on the left. Various other shapes, including a white teardrop, a green circle, and a blue circle, are scattered around the central orange circle. The background is a light blue-grey color.

01

Eclipse Perspective

Eclipse Perspective

Now let's walk through the eclipse environment:



The right hand side is the project browser where all your projects and files are shown.



Tool Introduction



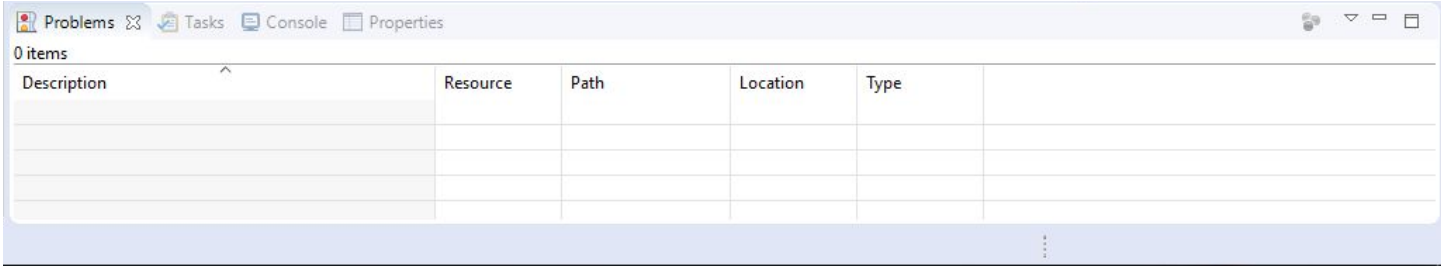
Tool Introduction



The most important tools in this area are

- *Builder (hammer shaped): used to build the selected project.*
- *Uploader: used to upload the generated equatable to the target hardware.*

Tool Introduction



- *The Info section where the state and progress of the build is Shown.*
- *Also the compilation error or run time errors are reported.*

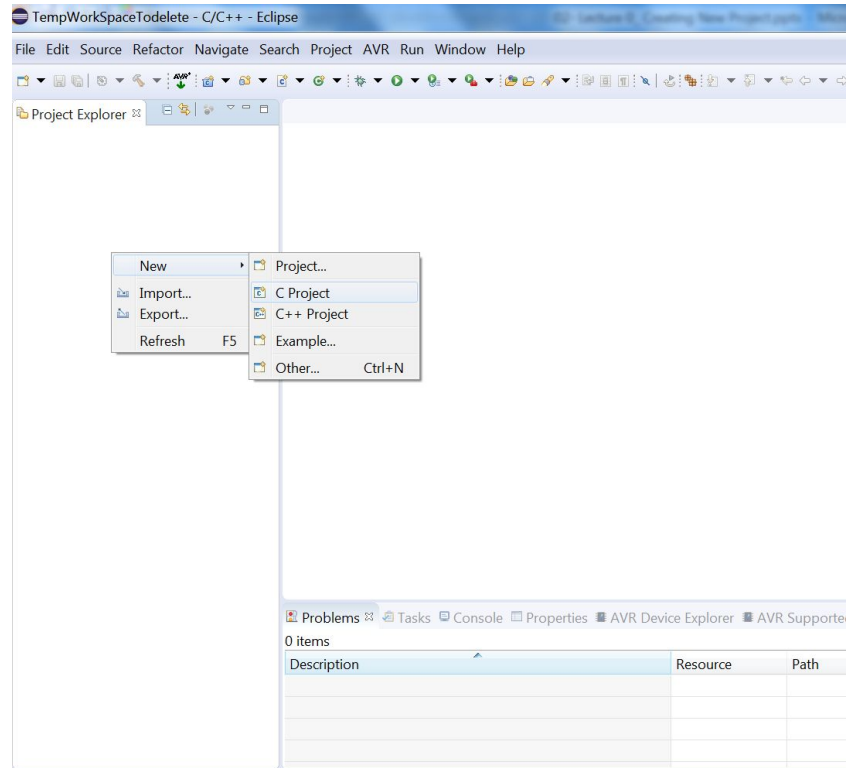


Programmer Driver Installation

03

An abstract graphic design on the right side of the slide. It features a central green circle with a black border and the number '03' in white. This circle is connected by a thick orange line to a larger orange circle with a black border and a teal center. Other elements include a small white circle with a teal center, a small teal dot, a small black dot, and a small white dot. The background is a light blue-grey color.

Programmer Driver Installation



Tool Introduction

C Project

Create C project of selected type

Project name: LedBlink

☒ Use default location

Location: C:\Users\Ahmed\Desktop\TempWorkspaceToDelete\LedBlink Browse...

Choose file system: default

Project type:

- > GNU Autotools
- 4 AVR Cross Target Application
 - Empty Project
- > AVR Cross Target Static Library
- > Executable
- > Shared Library
- > Static Library
- > Makefile project

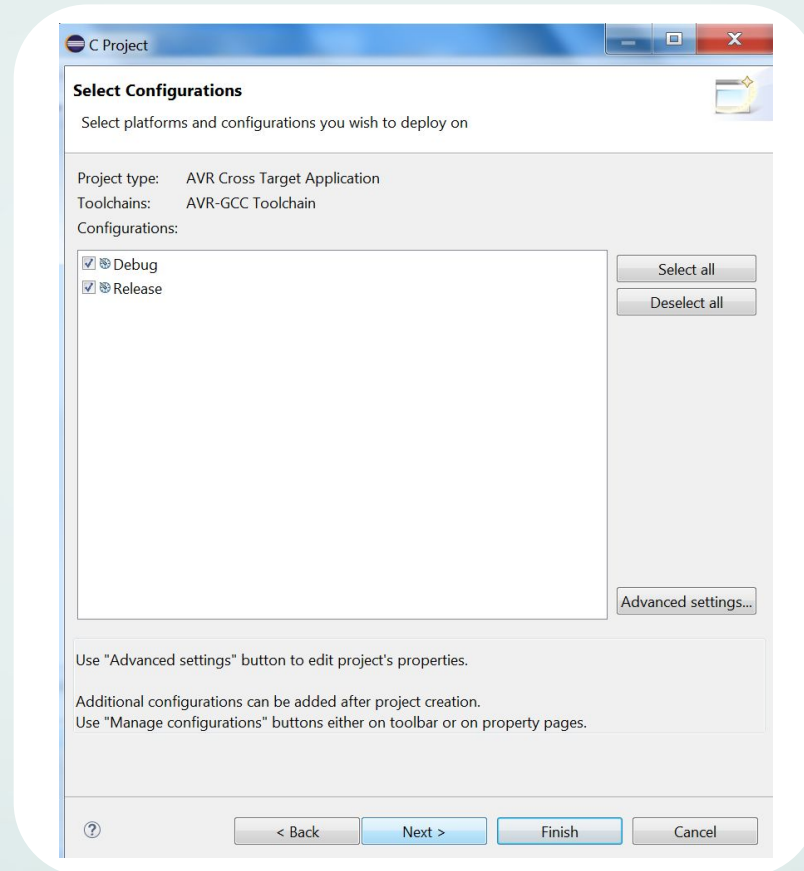
Toolchains:

- AVR-GCC Toolchain

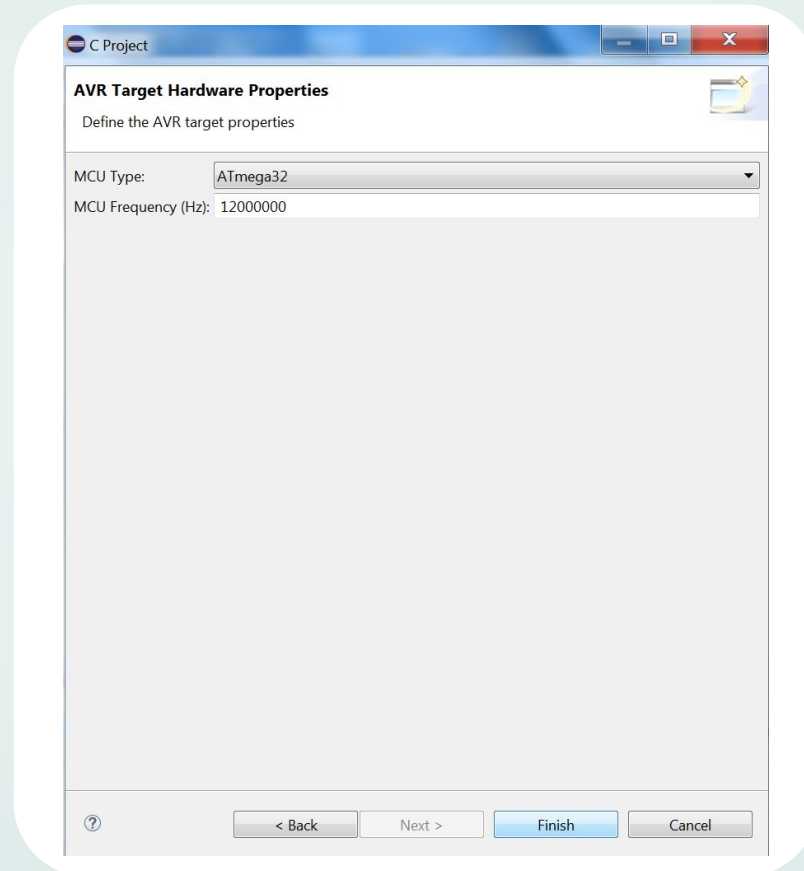
☒ Show project types and toolchains only if they are supported on the platform

? < Back Next > Finish Cancel

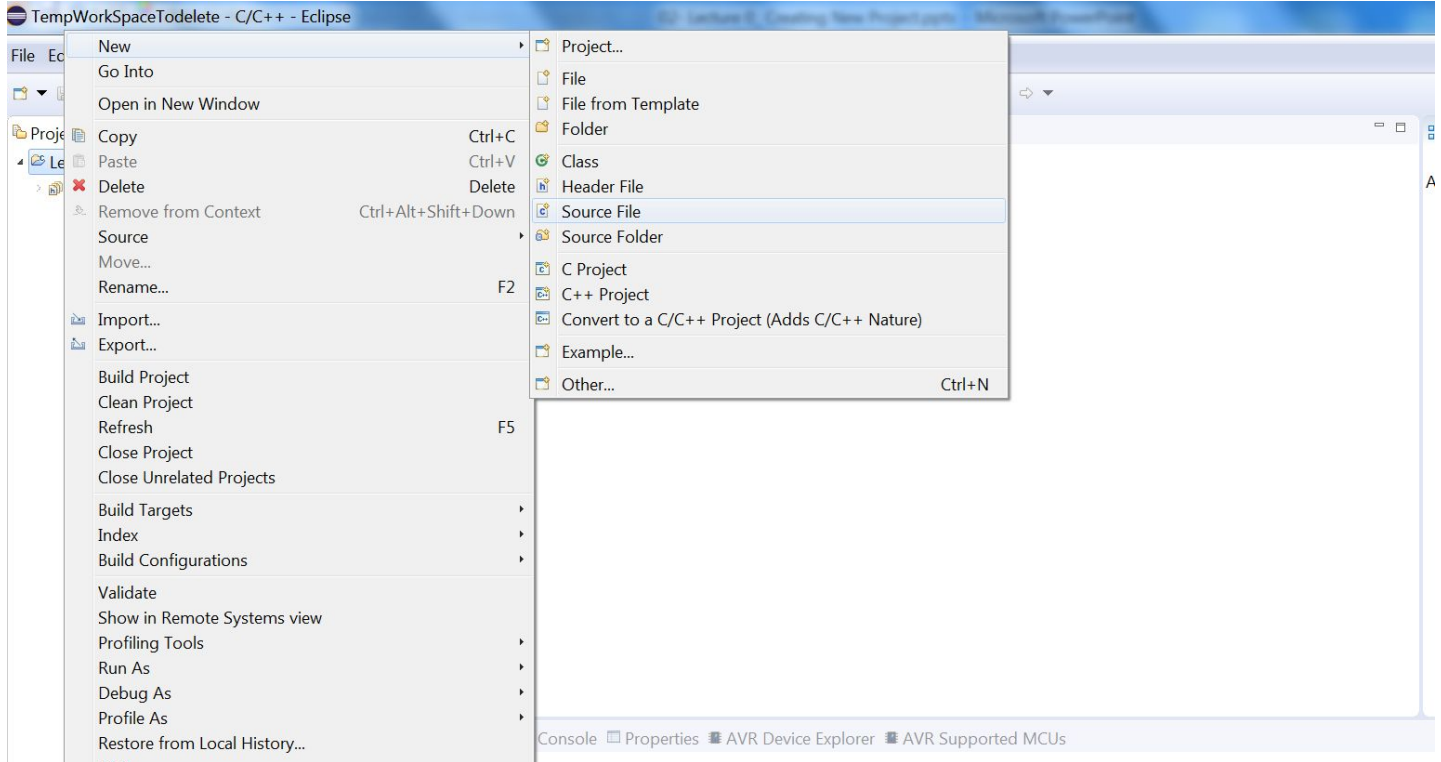
Tool Introduction



Tool Introduction



Tool Introduction



Tool Introduction

New Source File

Source File

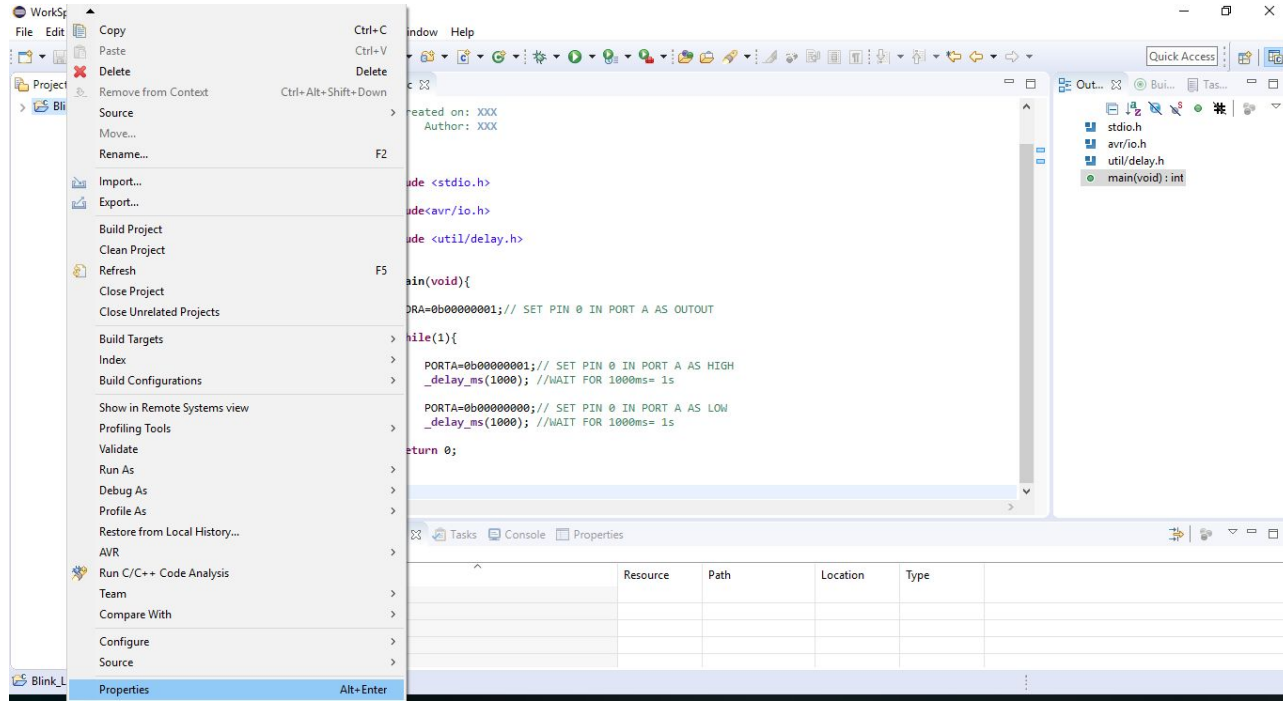
Create a new source file.

Source folder:

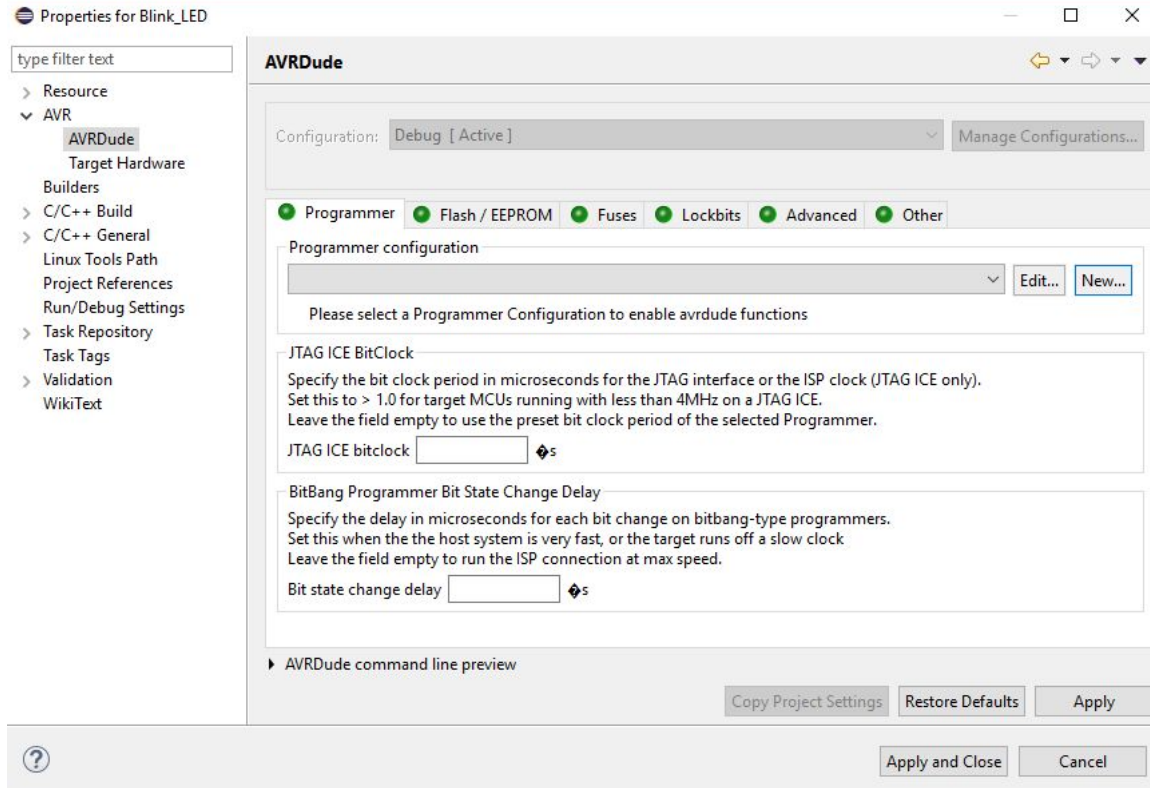
Source file:

Template:

Tool Introduction



Tool Introduction



Tool Introduction

Edit AVRdude Programmer Configuration New Configuration

Configuration name:

Description:

Programmer Hardware (-c)

Futurlec.com programming cable.
Jason Kyle's pAVR Serial Programmer
Lancos SI-Prog <<http://www.lancos.com/siprogsch.html>>
Nightshade ALF-PgmAVR, <http://nightshade.homeip.net/>
Picoweb Programming Cable, <http://www.picoweb.net/>
Pony Prog STK200
serial port banging, reset=ldtr sck=rts mosi=txd miso=cts
serial port banging, reset=dtr sck=lrts mosi=txd miso=lcts
serial port banging, reset=rts sck=dtr mosi=txd miso=cts
Steve Bolt's Programmer
STK200
The Bus Pirate
USBasp, <http://www.fischl.de/usbasp/>
USBtiny simple USB programmer, <http://www.ladyada.net/make/usbtinyisp/>
Xilinx JTAG cable

Programmer details from [C:\WinAVR-20100110\bin\avrdude.conf:417]
id = "usbasp";
desc = "USBasp, <http://www.fischl.de/usbasp/>";
type = usbasp;

Override default port (-P)

Override default baudrate (-b)

Other options
Use this field to add any avrdude option not covered by the plugin.

State of Parallel Port lines after AVRdude exit

/Reset Line

☒ restore to previous state
☐ activated (-E reset)
☐ deactivated (-E noreset)

Vcc Lines

☒ restore to previous state
☐ activated (-E vcc)
☐ deactivated (-E novcc)

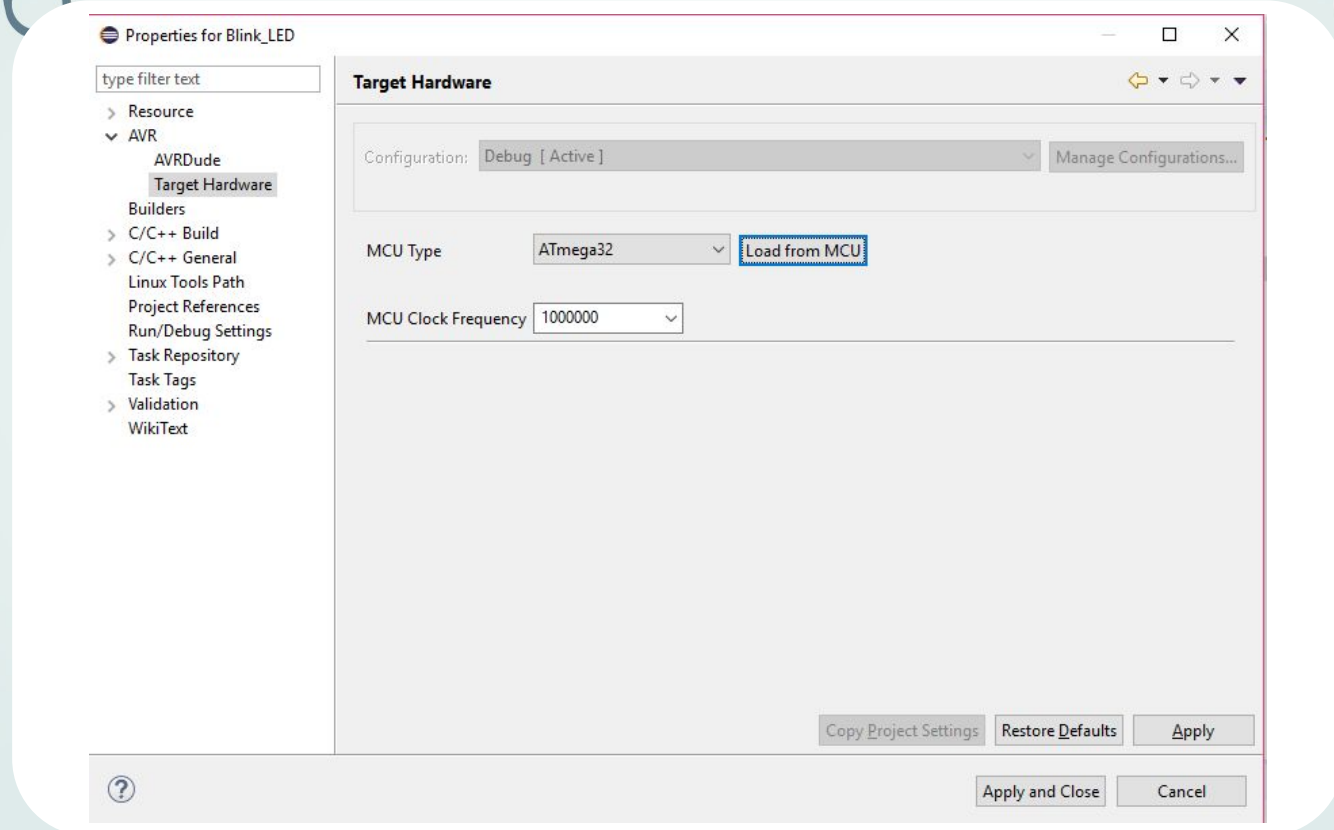
Delay between avrdude invocations milliseconds

Command line preview

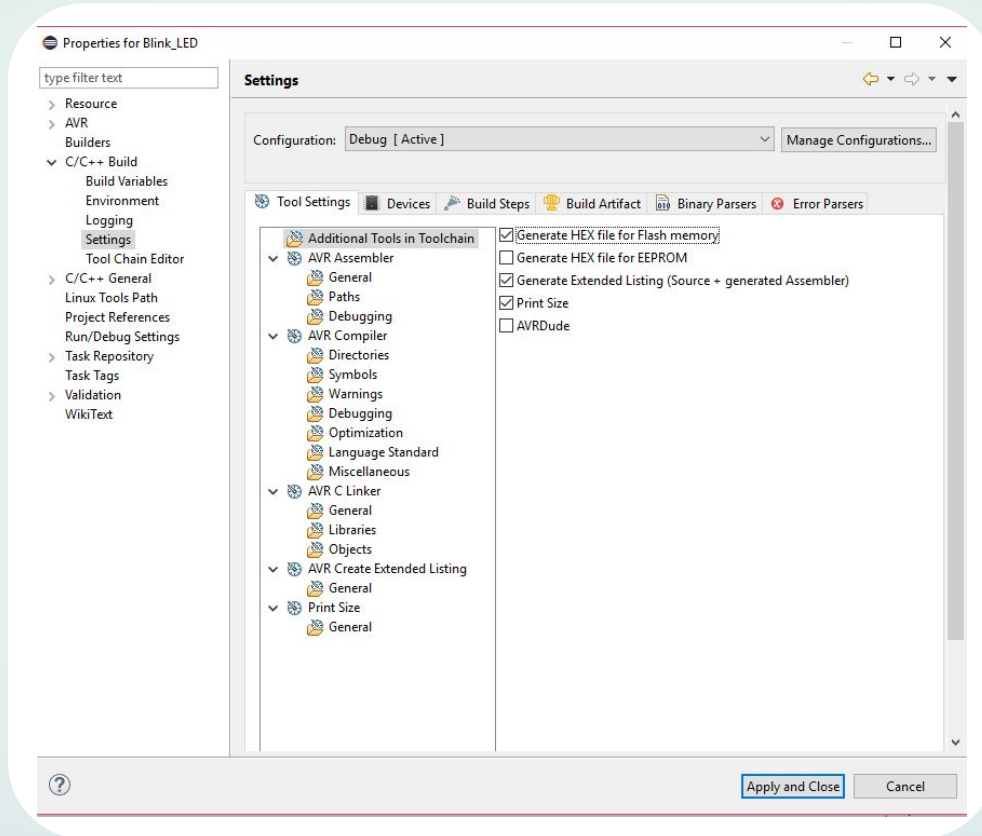
?

OK Cancel

Tool Introduction



Tool Introduction



Done





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