

# bob

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bob

bob is the builder class for generating systems based on build scripting

## FUNCTIONS

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### stop

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```
def stop(  
    self  
)
```

Stop all current builds

### run

---

```
def run(  
    self  
)
```

run the steps to build parts of targets

### list

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```
def list(  
    self  
)
```

Print a list of all the parsed build commands.

### gen\_build\_cmds

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```
def _gen_build_cmds(  
    self  
)
```

Internal function that will load the yaml file that contains build commands.

### \_process

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```
def _process(  
    self  
)
```

Create dict of dicts that contains lists with lists of lists to execute with subprocess {project: { 'concurrent':  
[[["make", "def\_config"], ["make"]], [{"fusesoc", "run", "--build", "--target", "zed\_blinky", "::blinky:1.0.0"}]]},

'sequential': [[]]]}

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## **\_execute**

```
def _execute(  
    self  
)
```

Call subprocess as a thread and add it to a list of threads for wait to check on. iterate over projects available and execute commands per project

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## **\_subprocess**

```
def _subprocess(  
    self,  
    list_of_commands  
)
```

Responsible for taking a list of commands and launching threads concurrently or singurely.

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## **\_project\_cmd\_count**

```
def _project_cmd_count(  
    self,  
    run_types  
)
```

Number of commands in a project.

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## **\_thread\_exception**

```
def _thread_exception(  
    self,  
    args  
)
```

Used to kill all threads once one has failed.

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## **\_bar\_thread**

```
def _bar_thread(  
    self  
)
```

Creates progress bar display in terminal for end user display.