builder.py

AUTHORS

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DATES

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INFORMATION

Brief

parse yaml file to execute build tools

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commandCompiler

commandCompiler

Parse yaml files into commands for command executor

FUNCTIONS

init

```
def __init__(
    self,
    yaml_projects
    =
    None,
```

```
yaml_commands
=
None,
target
=
None
)
```

Setup class

listCommands

```
def listCommands(
    self
)
```

Print a list of all the commands available

listProjects

```
def listProjects(
  self
)
```

Print a list of all the

clear

```
def clear(
    self
)
```

Clear results of create and current yaml file pointer.

setProjects

```
def setProjects(
  self,
  yaml_projects
)
```

Set a yaml file for project commands

setCommands

```
def setCommands(
  self,
  yaml_commands
)
```

Set a yaml file for commands available

create

```
def create(
  self,
  yaml_projects
=
  None,
  yaml_commands
=
  None,
  target
=
  None
)
```

Pass a yaml file to use for processing into format for commandExecutor.

getResult

```
def getResult(
    self
)
```

Return dict of dicts that contains lists with lists of lists to execute with subprocess {project': { 'concurrent': $[[["make", "def_config"], ["make"]], [["fusesoc", "run", "--build", "--target", "zed_blinky", "::blinky:1.0.0"]]], 'sequential': <math>[[]]$ }

_checkTarget

```
def _checkTarget(
  self
)
```

_process

```
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': [[]]}}

_load_yaml

```
def _load_yaml(
  self,
  yaml_file
)
```

Internal function that will load the yaml file that contains project commands or commands.

commandExecutor

```
commandExecutor
```

Execute commands create from commandCompileris not a valid selection

FUNCTIONS

clear

```
def clear(
self
)
```

Clear state of commandExecutor to init with no values passed

completed

```
def completed(
  self
)
```

return a bool if all items have been completed.

failed

```
def failed(
  self
)
```

return a bool indicating failure

stop

```
def stop(
self
)
```

Kill and current processes in build threads

setDryrun

```
def setDryrun(
dryrun
= False
)
```

Setting to True sets the project run everything up to the subprocess. Popen call, which is skipped.

setProjects

```
def setProjects(
  self,
  projects
)
```

Set the projects for the executor to build

runProject

```
def runProject(
  self,
  projects
  =
  None
)
```

Call the internal execute method to start calling up each of the projects to build.

execute

```
def _execute(
self
)
```

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

_subprocess

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

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

_project_cmd_count

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

Number of commands in a project.

_thread_exception

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

```
)
```

Used to kill all threads once one has failed.

_bar_thread

```
def _bar_thread(
self
)
```

Creates progress bar display in terminal for end user display.