driver.py

AUTHORS

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DATES

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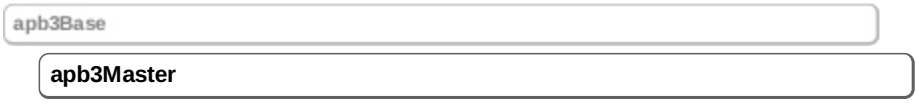
INFORMATION

Brief

Bus Driver for APB3

License MIT

apb3Master



Drive slave devices over the APB3 bus

FUNCTIONS

__init__

```
def __init__(
self,
entity,
name,
clock,
resetn,
                                                                    *
args,
                                                                   **
kwargs
)
```

Setup defaults and call base class constructor.

read

```
async def read(
self,
address
)
```

Read from a address and return data

write

```
async def write(
self,
address,
data
)
```

Write to a address some data

_check_type

```
def _check_type(
self,
trans
)
```

Check and make sure we are only sending 2 bytes at a time and that it is a bytes/bytearray

_run

```
async def _run(
self
)
```

_run thread that deals with read and write queues.

apb3EchoSlave

Respond to master reads and write by returning data, simple echo core.

FUNCTIONS

__init__

```
def __init__(
self,
entity,
name,
clock,
resetn,
numreg
=
256,
*
args,
**
kwargs
)
```

Setup defaults and call base class constructor.

_check_type

```
def _check_type(
self,
trans
)
```

Check and make sure we are only sending a type of apb3trans.

_run

```
async def _run(
self
)
```

_run thread that deals with read and write request over bus.