driver.py	
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DATES	
2025/03/11	
INFORMATION	
Brief	
Bus Driver for APB3	
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apb3Master	
apb3Base	
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

```
apb3Base 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.