

```
import tensorflow as tf
...
def train(self):
    for step in train_steps:
        if(step == 10)
            tf.start_profile()
        if(step == 11)
            tf.end_profile()
        ...
    return prediction_array
```

```
def conv_bn_relu_layer(...):
    ...
    tf.add_layer()
    return output
...
```

kernel space

Set PTE;  
Intercept protection faults

DO access info

mmap b/w user and kernel spaces

DO lifetime info

Track mem  
allocation/deallocation

user space

An analysis  
thread  
reorganizes DO

A migration thread moves pages into fast mem

A migration thread moves pages out of fast mem

