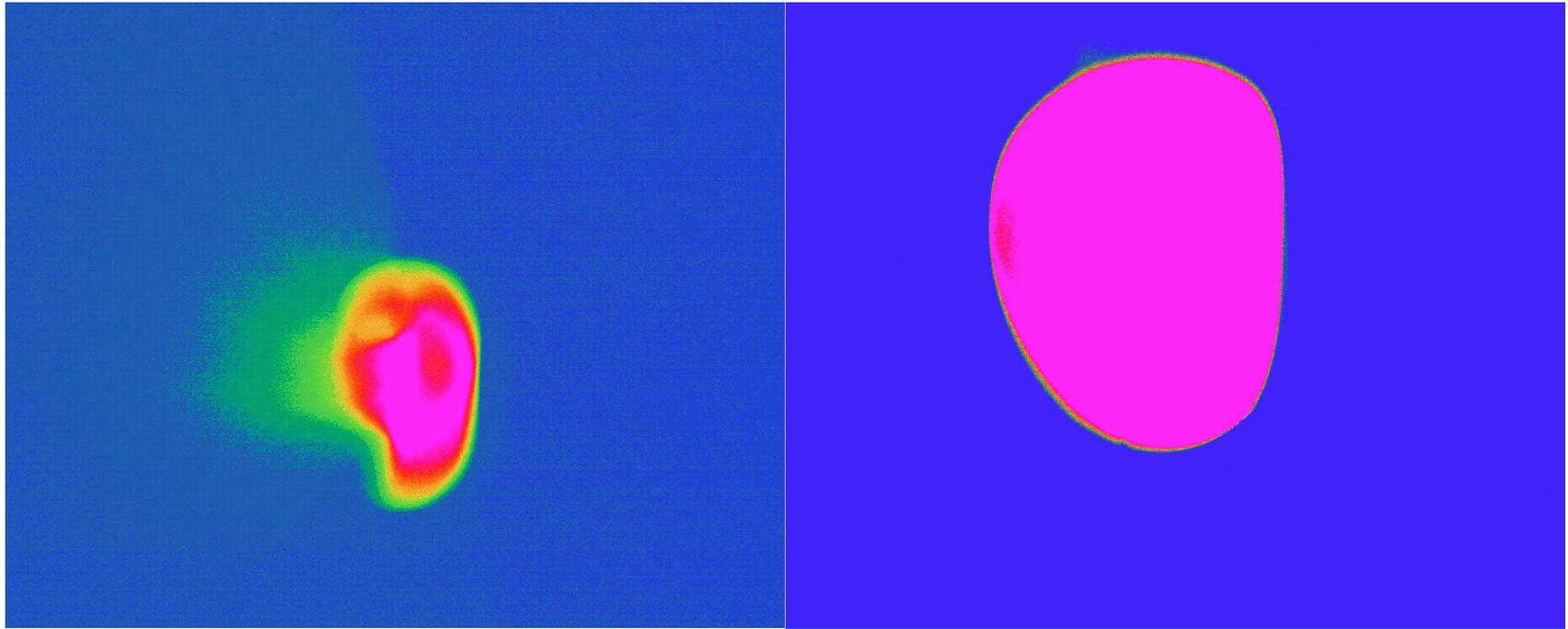


Weekly Update

Feb 28/18

Thor Cam



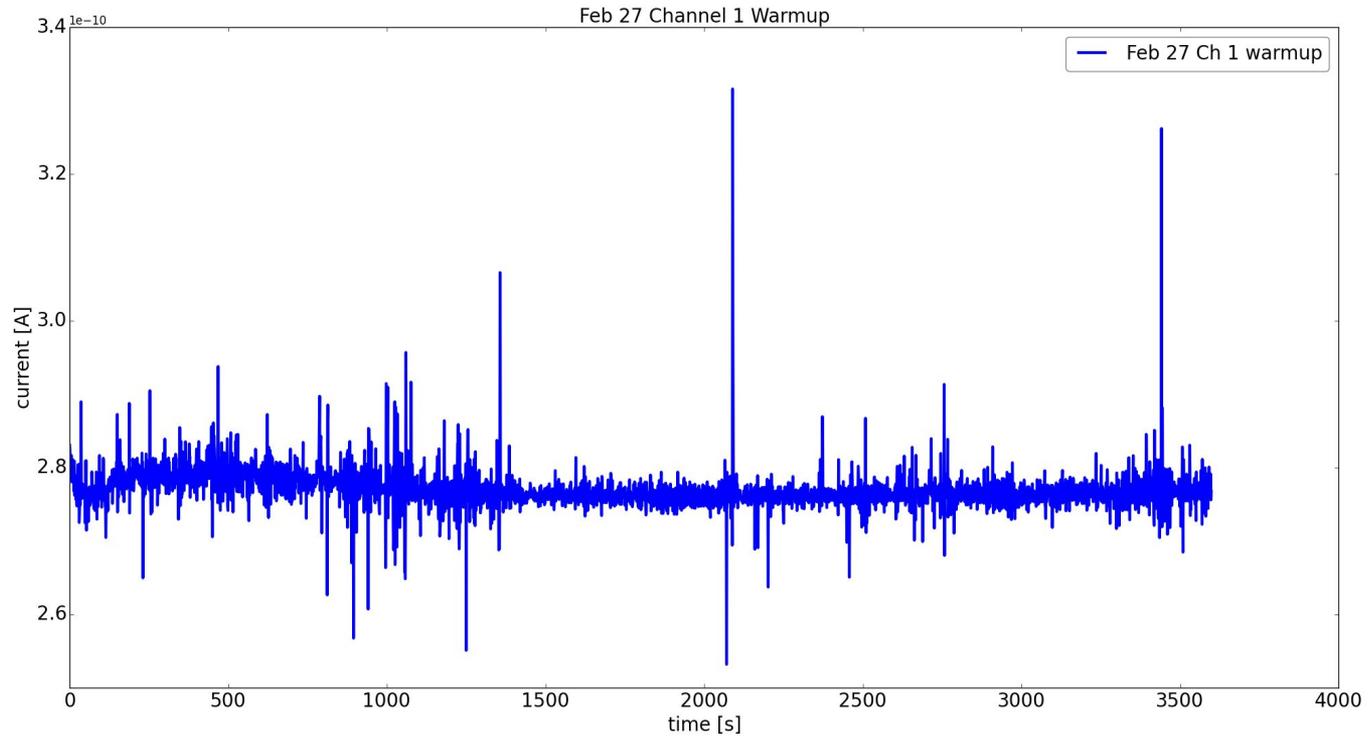
Channel 1

Channel 2

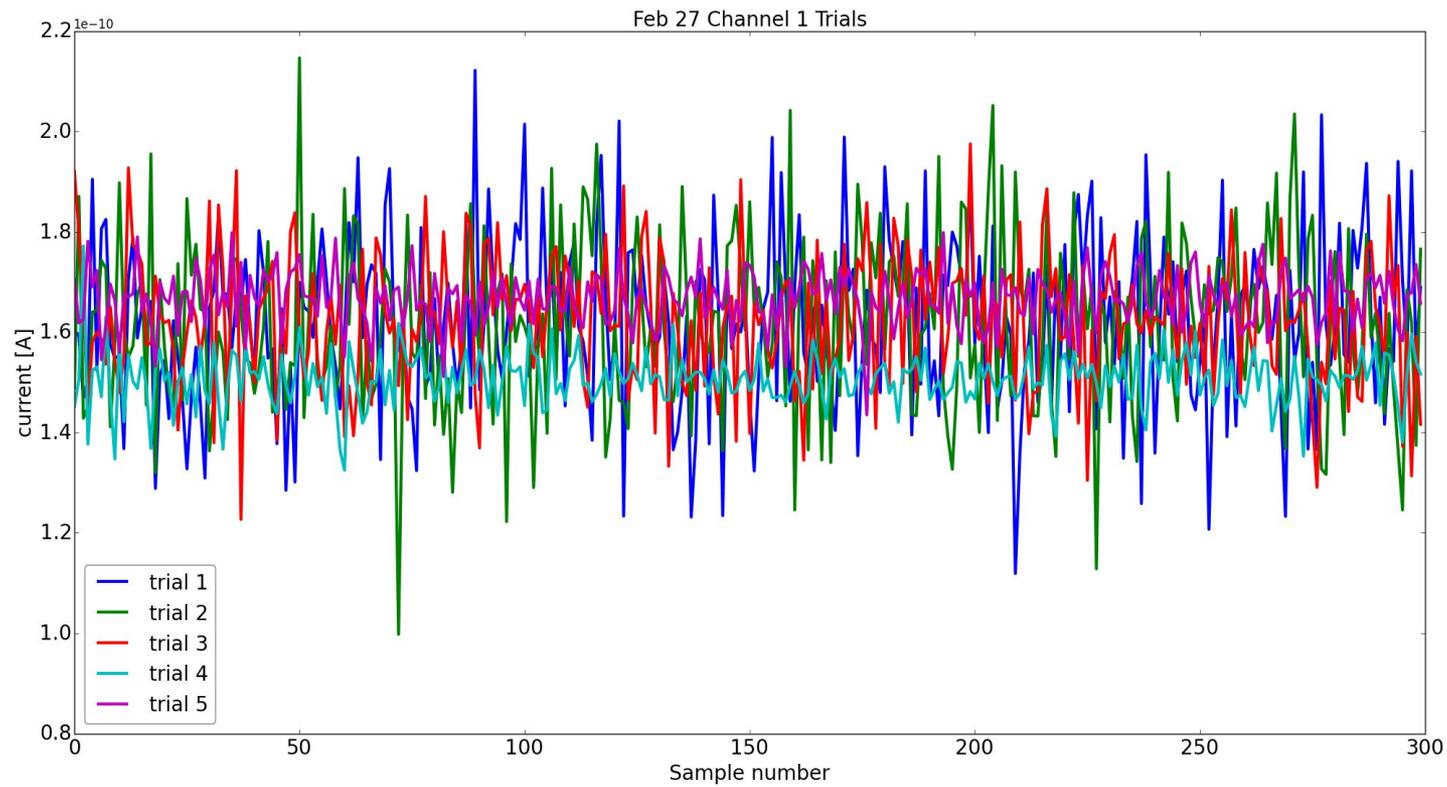
Setup

- Borrowed a lens holder from Vutha group for now
- I thought I saved my pictures when I sent it to myself... didn't appear so no setup picture
- Channel 1 is the smaller diode perpendicularly
- Channel 2 is the bigger diode directly in front of the beam
- All trials taken with 300 samples at 60 samples/min (5 minutes) except warmup; 3600 samples at 60 samples/min (1 hour)

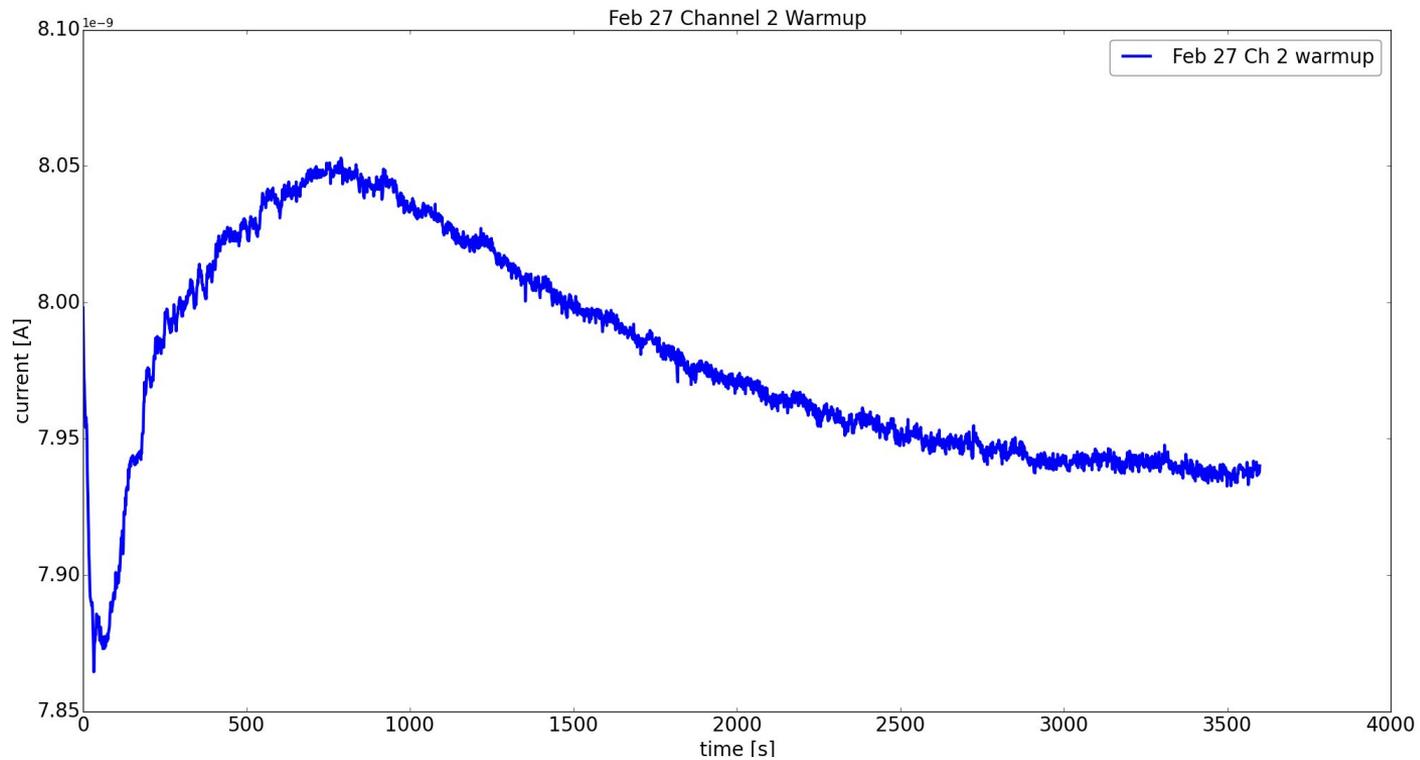
Channel 1



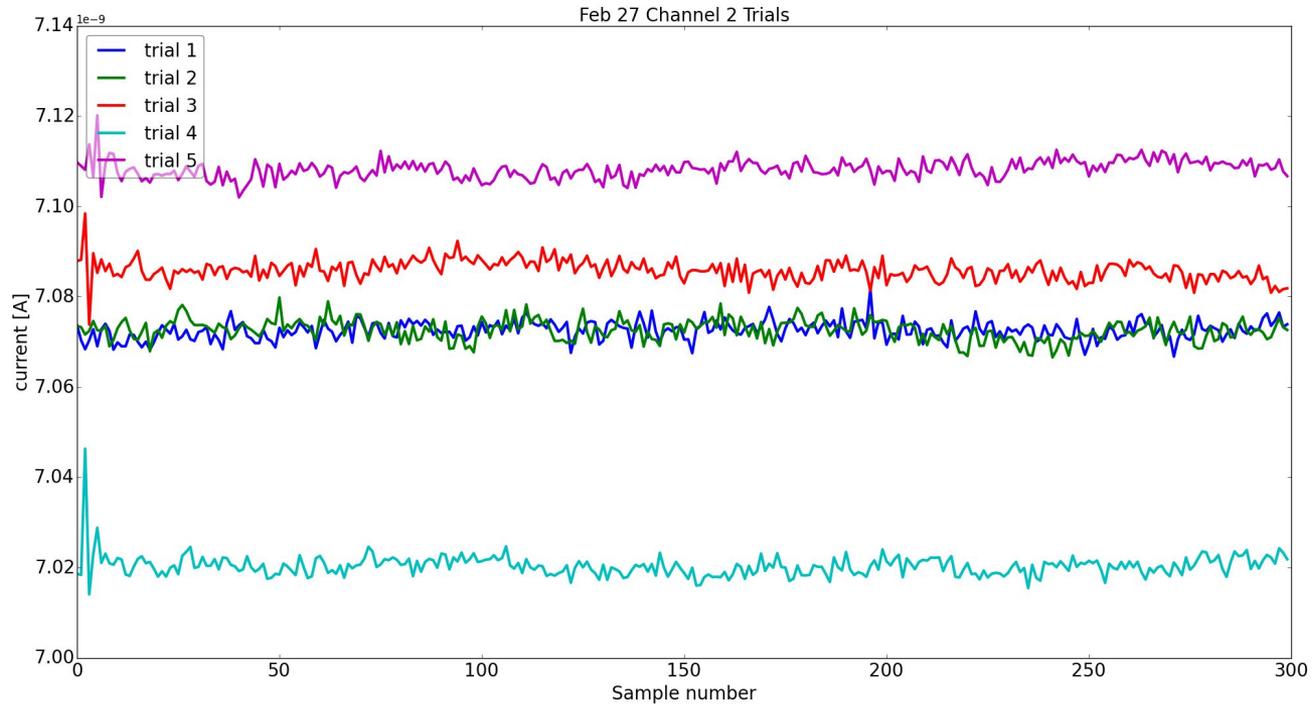
Channel 1



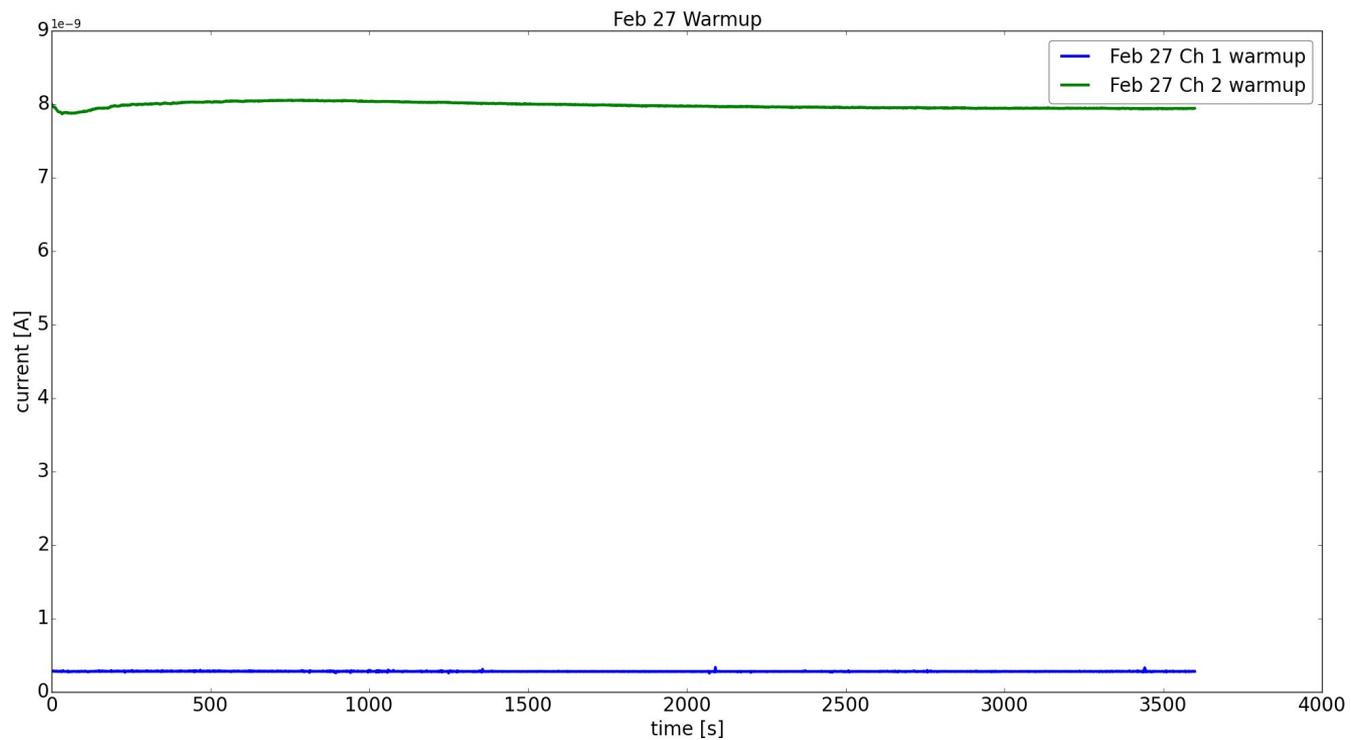
Channel 2



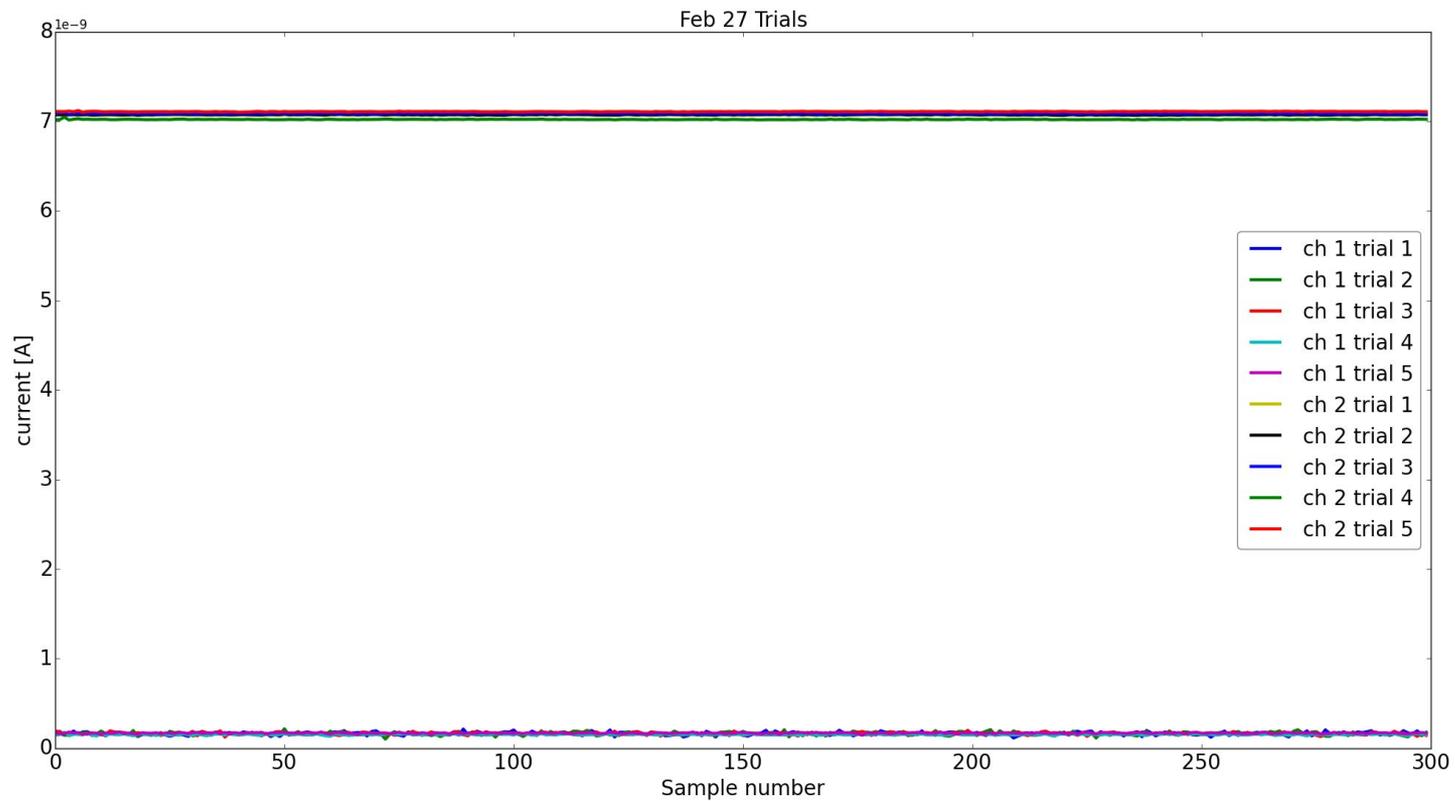
Channel 2



Comparison



Comparison



Analysis

- Taking a random trial, in this case trial 5, ran same test for error $> 1\%$
- 46/300 samples are outside the 1% range (16.7% of the samples)
- 23/300 samples are outside the 2% range (7.7% of the samples)
- 14/300 samples are outside the 3% range (4.7% of the samples)
- 6/300 samples are outside the 4% range (2% of the samples)
- I expect similar results with the other trials but can look specifically into it