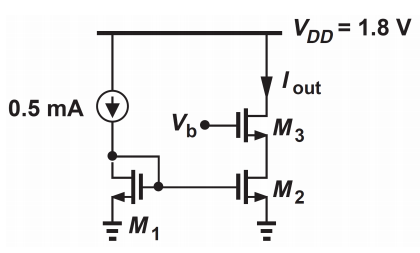
Analogue Integrated Circuits Report

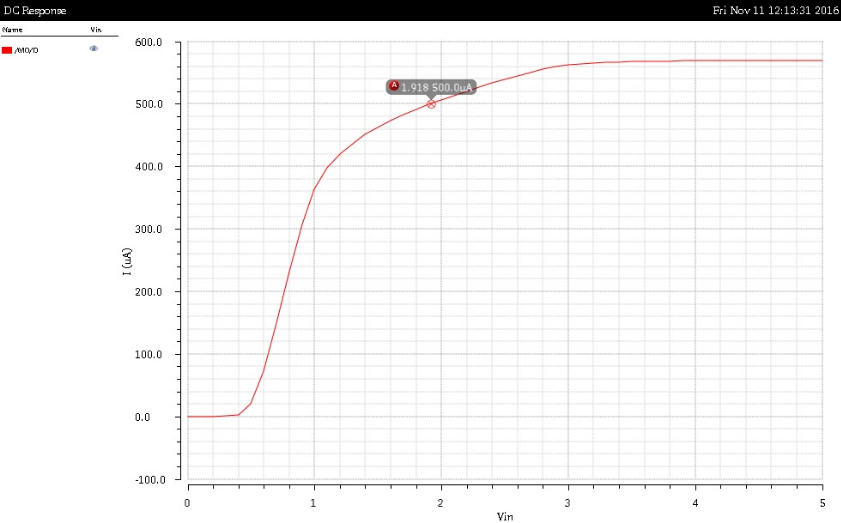
### Fergal Lonergan 13456938

# Lab 6



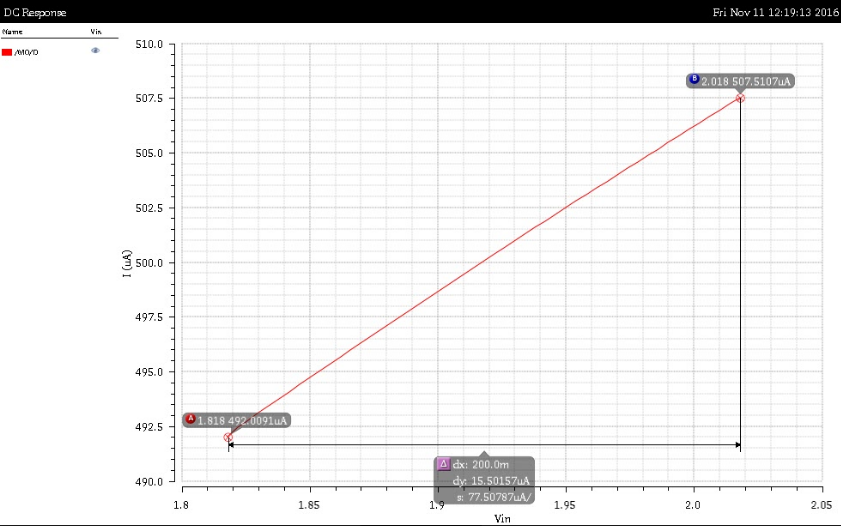
# a.

We were asked to find a value for our voltage that gave an output current of 0.5mA. to do this we ran a DC simulation and swept our voltage from 0 – 5V, and located the point where our output current was exactly 0.5mA. For us this point was when was equal to 1.918V



# b.

We then checked how our current was affected by a voltage change of 100mV of To do this we ran a DC sweep of 1.818V – 2.018V.



As we can see that close to our operating point of our current increases linearly with a small change in voltage from 0.492mA-0.507mA.

# c.

We then were asked to calculate our To do this we ran an AC sweep setting our to have an AC magnitude of 1V. We then once again measured our current and using this were able to find our .

