

<https://github.com/CJimbob/CWM-ProgNets/tree/main/assignment3>

1. Power = 4.7W, no steady state, because the operations in Raspberry changes.
2. about 1 frame per second, 1 packet per second, DNS packets
3. Power = 5.1W, Power = 5.0 W, more expensive to send.
4. Power = 5.6W, when client, Power = 5.6W, a bit unstable in the beginning, rised to 6.2W
5. consistently Power = 6.3 W when server, Power = 5.8 W when server
slight increase
6. Power = 6.5 W, max = 6.7 W, this is the largest power consumption so far.
7. UK CI = 78eq/kWh, test was run for 20 sec, power = 6.5W,

$$CF = 78 * 6.5 * 20 / 3600 = 2.8 \text{ CO}_2 \text{ eq}$$

$$8. 30 * 10^9 * 2.8 = 8.4 \times 10^{10} \text{ CO}_2 \text{ eq}$$

$$8.4 * 10^{10} * 2 = 1.68 * 10^{11} \text{ CO}_2 \text{ eq}$$

not a good estimate, Raspberry pi is a very little device with little power consumption.