Home Challenge #4: TinyOS 2

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1   SendAck.h

In this file we described the message struct, composed of three field:

- *msg_type*: which describes the type of message (REQ/RESP).

- *msg_counter*: which keeps track of the message number.

- *msg_value*: which represents the value read from the fake sensor.

2   SendAckAppC.nc

We used this file to wire all the modules defined in the *SendAckC.nc* file. And we also wired the *fakeSensorC.nc* file to read the values from the fake sensor.

3   SendAckC.nc

In this file we implemented all the logic of the single modules. We intensively used the DEBUG statements to make the debugging process easier.
We used the variable TOS_NODE_ID to differentiate the functions each mote has to run and used the module *PacketAcknowledgements* to send the ACK messages.

4   topology.txt

We used this file to describe the topology of our motes.

5   RunSimulationScript.py

This python script is used to initialize the motes and run the simulation. In the end all the log is printed in a text file.