

Fomu Whisperer

Hello hardware nerds, today we are hiding real hardware behind a reversing challenge ☺

So the challenge.vhd file is the source code of the program, which runs locally at our site on a tiny blinking fomu (<https://www.crowdsupply.com/sutajio-kosagi/fomu>).

We created two different challenges for you, however challenge two requires a successful solve of the first challenge, but you will probably notice this. As we only have limited amounts of hardware, the submission is implemented with a queue system. The maximum time required for a solve is around 6 minutes. You can only submit one job at a time, but you can update the file in the queue as long as it is not running on the fomu (when you are position 1 in the queue your job is currently deployed and you cannot update the file anymore).

For the input, a basic text file is required, which contents should look like this for example:

```
pin 1=1,4=1
sleep 3
pin 4=0
sleep 3
```

The file has to have the “.txt” ending.

With “pin” you can set an output pin to on/off and with “sleep”, the fomu will wait for x seconds until the next command. The maximal sleep time is 400 seconds in total.

After the job is executed, you will receive a video file of the fomu with your inputs.

Happy Hacking,

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