Figure 1: View `layout` designed for the battery charger controller. The pins were placed in the positions shown in the diagram of the datasheet, apart from the inputs `tempmin`, `tempmax`, `tmax` and `iend`, placed here on the right side. In order to be able to visualize the pins (ME3), a zoom-in was necessary, thus the layout is shown here divided in two - a top part (shown on the left) and a bottom part (shown on the right).
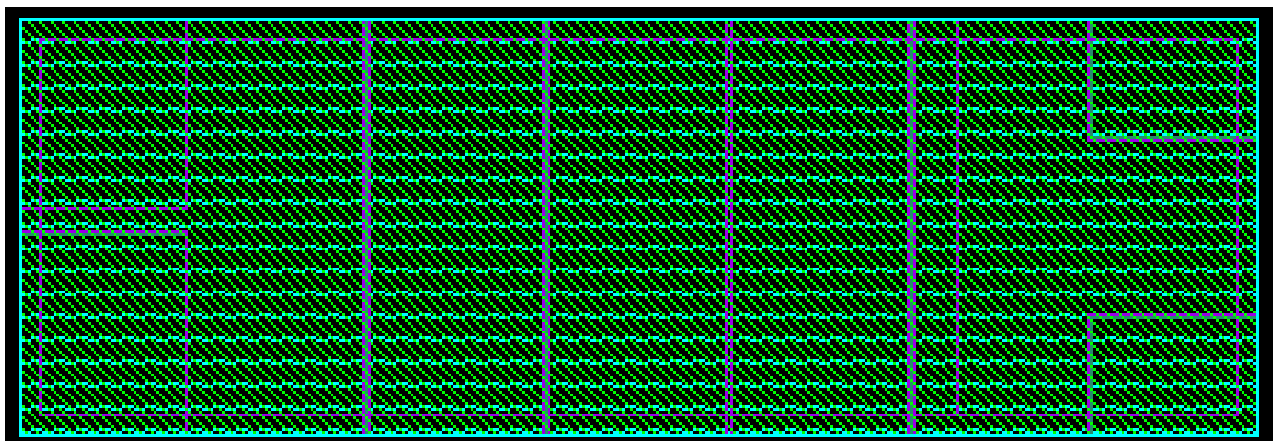

Figure 2: View `abstract` obtained from the layout shown in Figure 1 [**this image has been rotated 90º**].
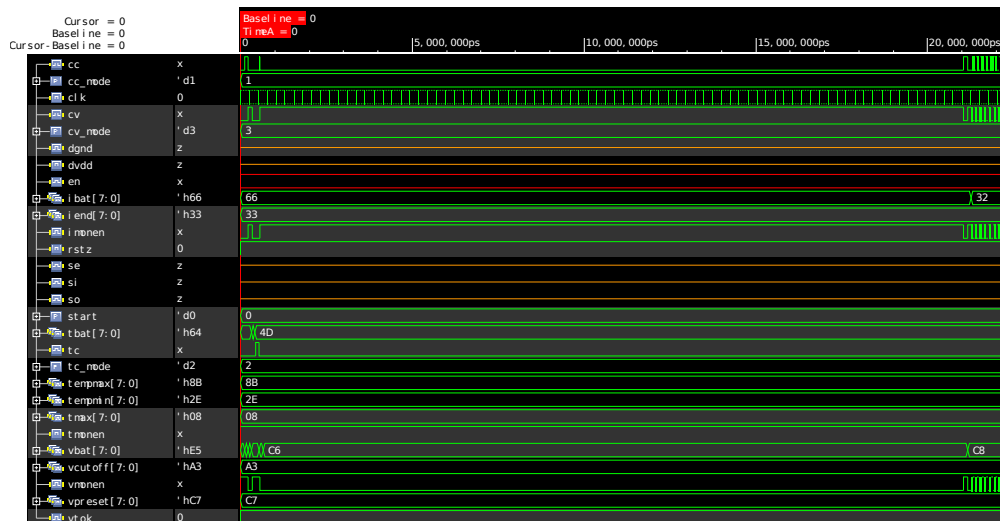
Figure 3: Waveform window obtained by simulating the controller design described in the encrypted file with the testbench BATCHARGERctr_ourtb.v, for a total simulation time of 22 295 000ps.
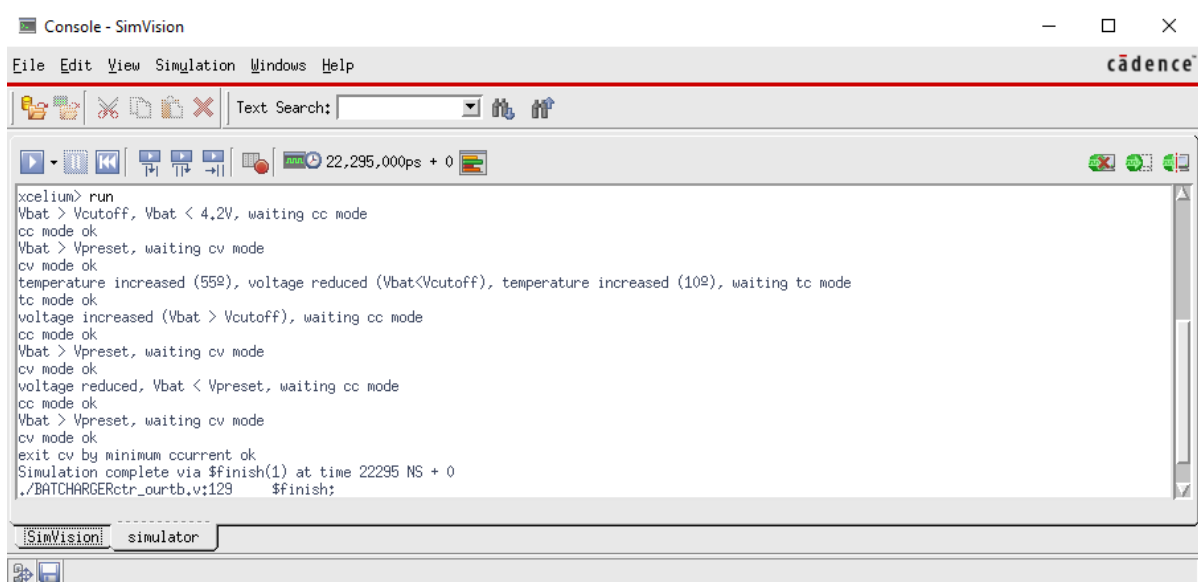

Figure 4: Picture of the messages in the SimVision console obtained by simulating the controller with the encrypted file.