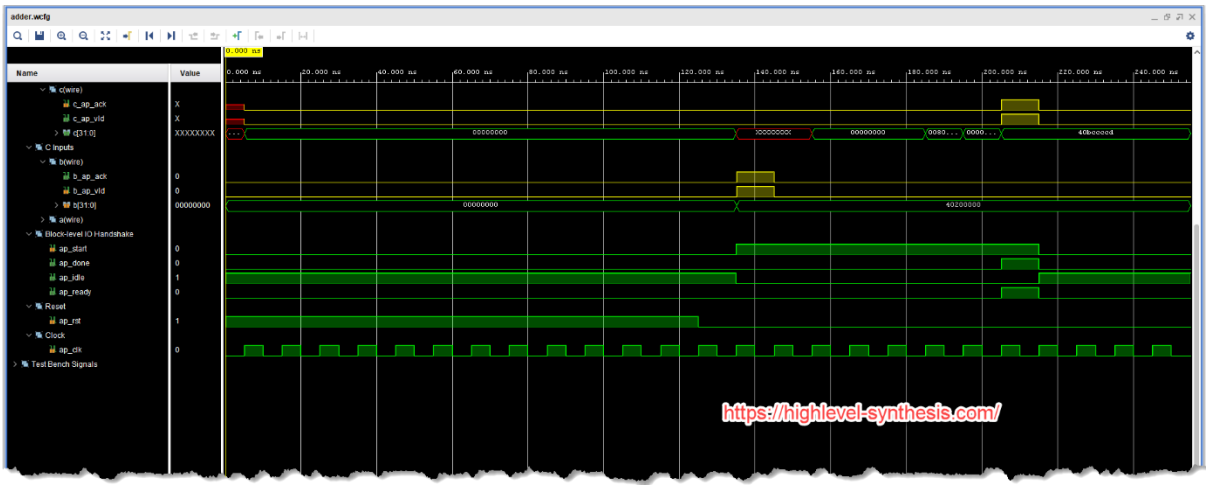The following figure shows the resulted waveform.