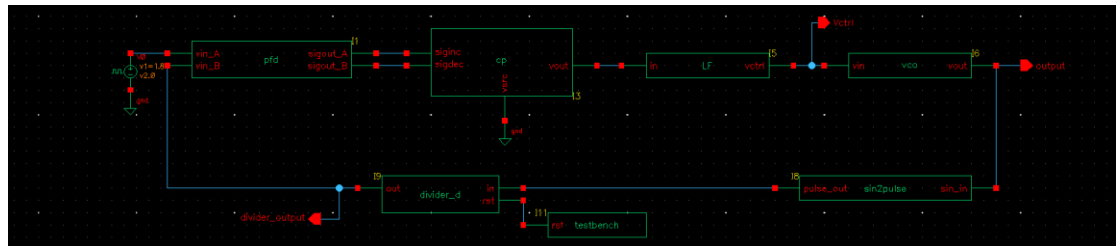


# Mixed-Signal Electronic Design

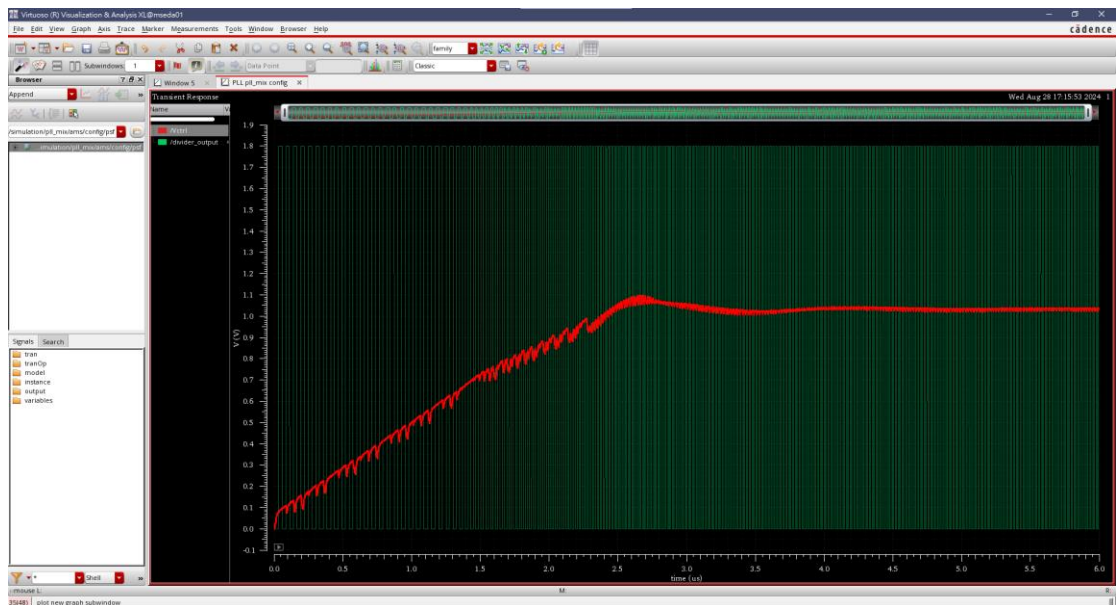
312510224 林煜睿

## I. Mixed-signal simulation

- **Schematic**

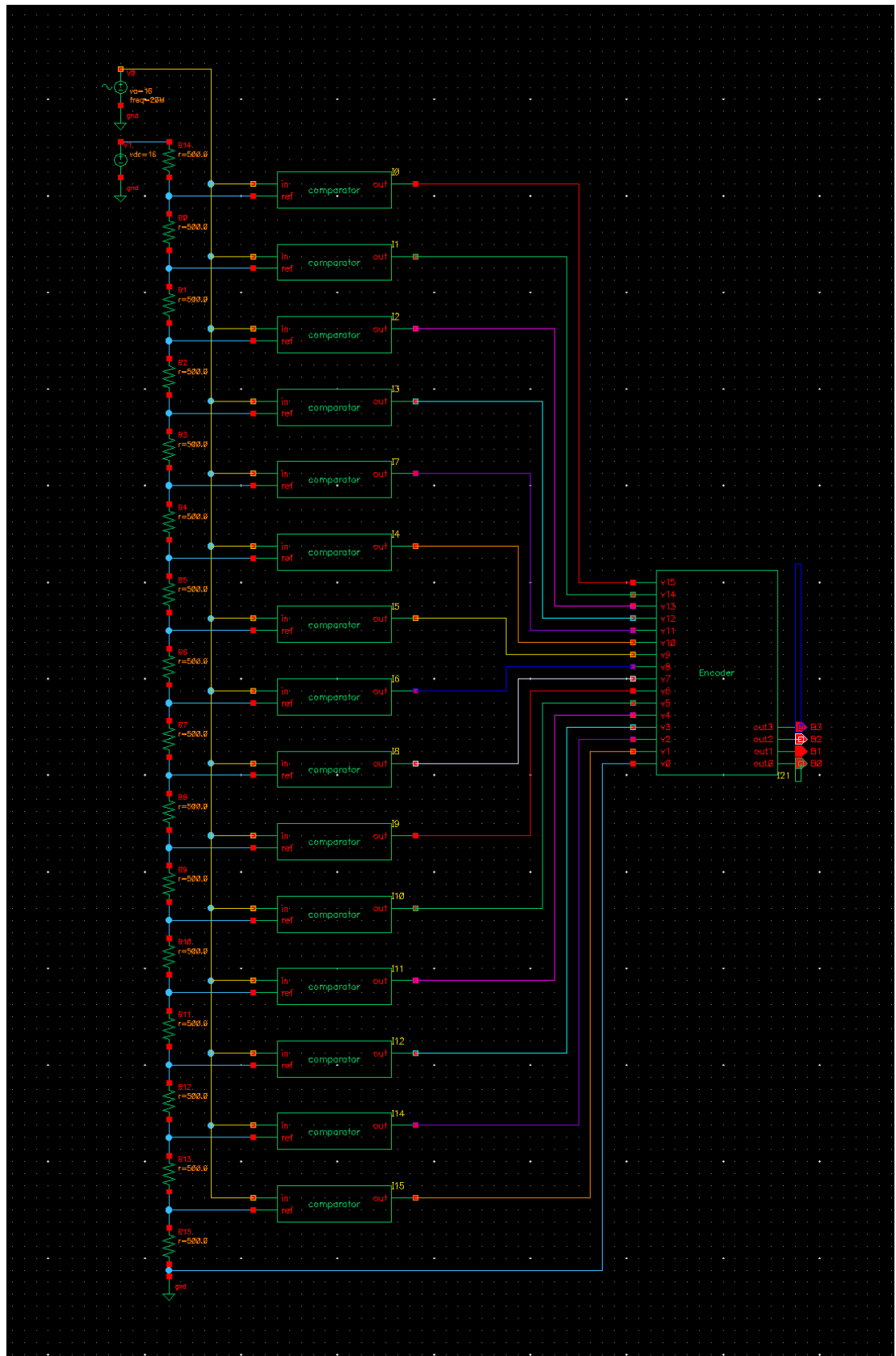


- **Waveform**

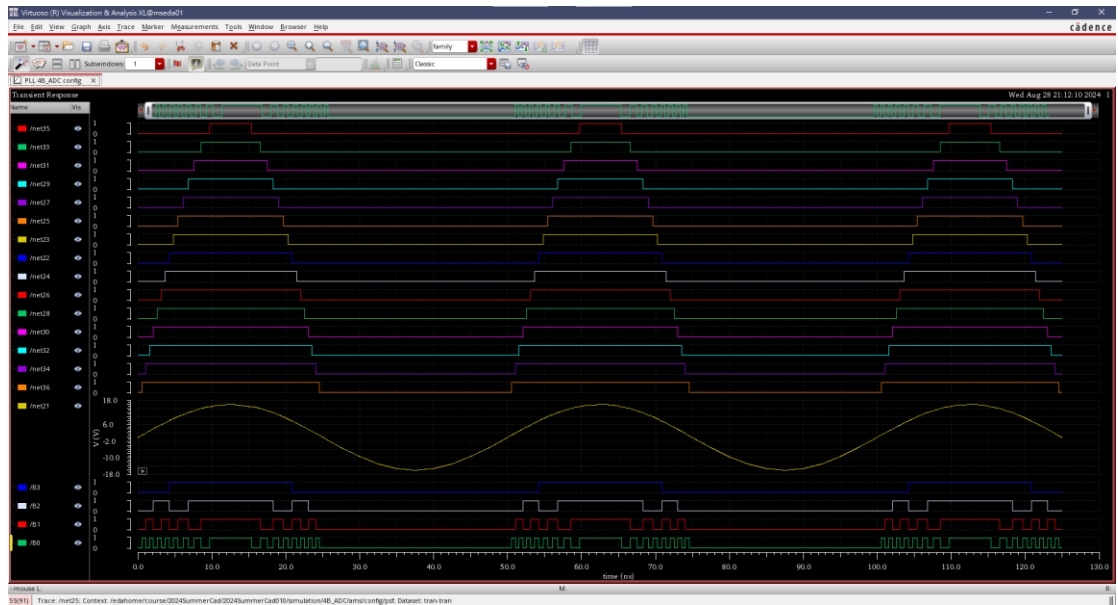


## II. ADC

- Schematic



## ● Waveform



### III. What you have learned from this course

In the first half of the semester, I learned important EDA concepts such as simplifying K-maps using the Quine-McCluskey method, ROBDD algorithms, Static Timing Analysis, Clock Gating/Power Gating, and more, which gave me a deeper understanding of frontend processing. After the midterm exam, we started delving into the analog domain. Although I wasn't familiar with it, teacher's clear explanations were highly beneficial to me. Coupled with the hands-on experience from lab sessions, not only did I gain a deeper understanding of the algorithms, but I also improved my coding skills through optimization.

Overall, this course has greatly enriched me both in terms of knowledge and C++ practical skills. I am very grateful to the teacher and the teaching assistants for their patient guidance.

### IV. Suggestion for this course

I suggest that the TA provide a breakdown of the performance for each lab, including the scores for each case. I believe this would help me better understand the areas where I still need improvement.