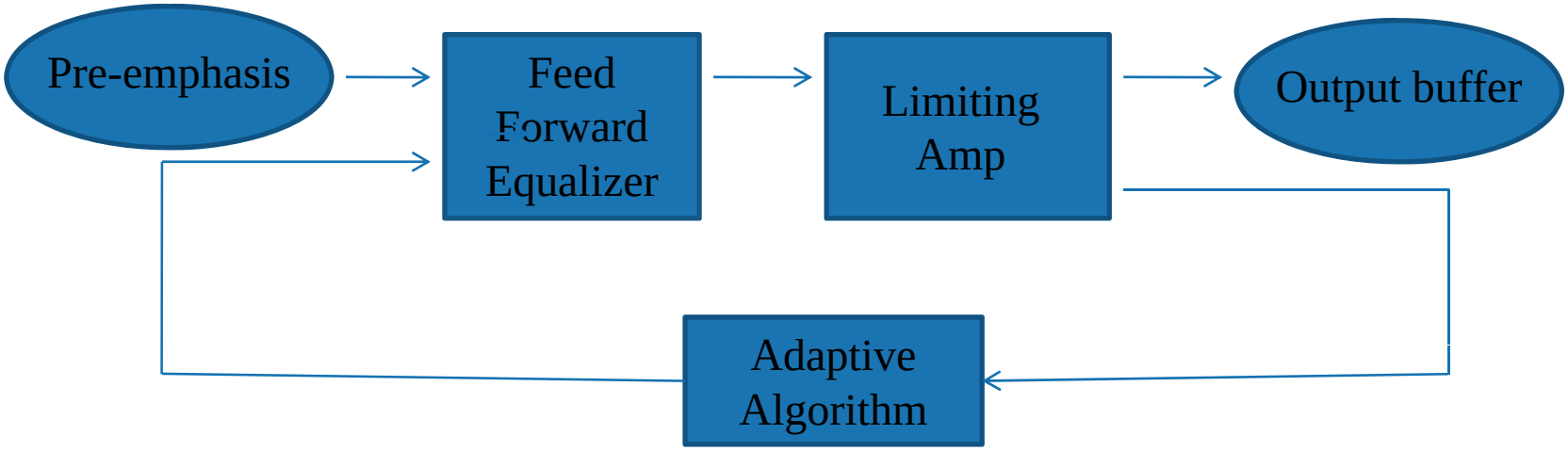
Introduction

- Topic
  - Development of SerDes IP based on 65nm CMOS
- Team member
  - Team member:K.C Choi, C.K Seong, Y.S Park and W.S Kim
    - CDR (Clock and Data Recovery) part: K.C Choi
    - PLL (Phase-Locked Loops) part: Y.S Park
    - Equalizer part: C.K Seong and W.S Kim
- Sponsor
  - Samsung Electronics

Adaptive Feed-Forward Equalizer

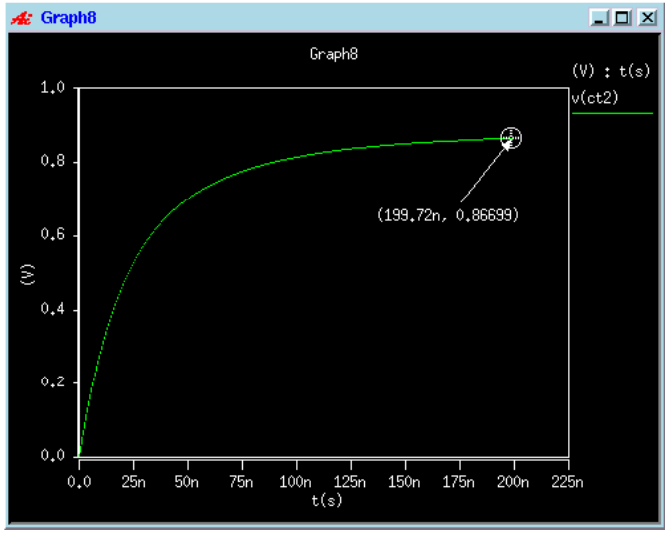
❖ 2.7Gb/s Adaptive Feed forward Equalizer

❖ Basic Structure

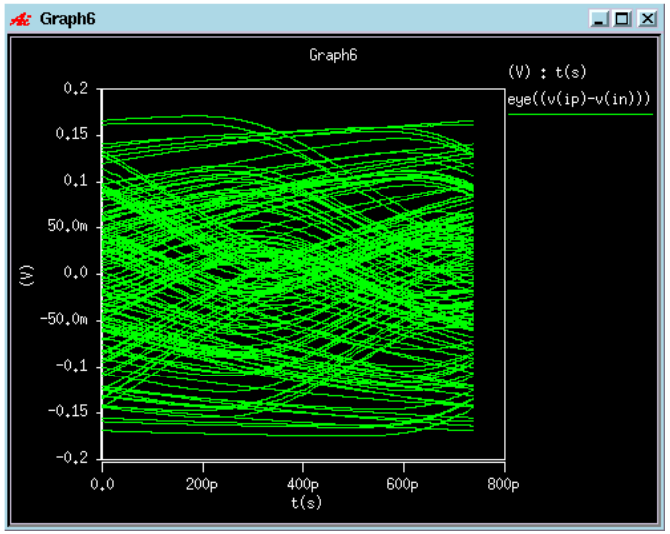


Adaptive Equalizer

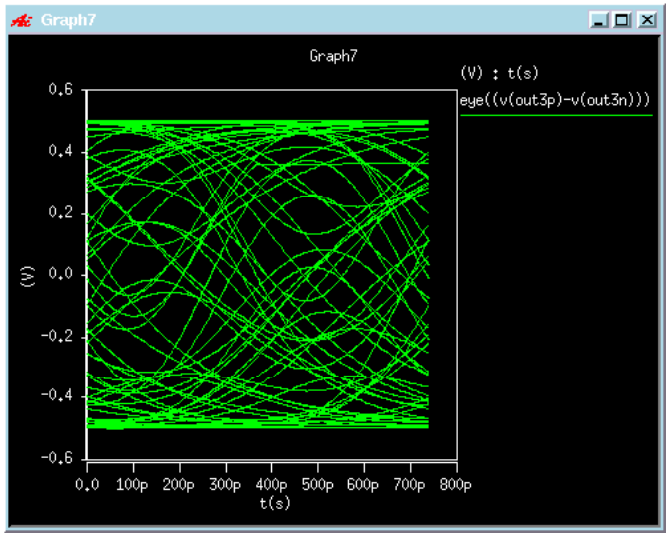
❖ Eye diagram



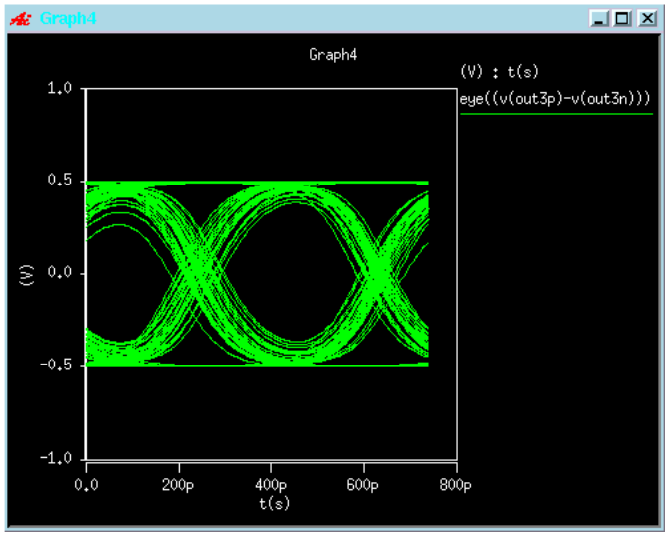
VGA coefficient adaptation



Channel passing signal



Equalizer adaptation start



Equalizer adaptation end