

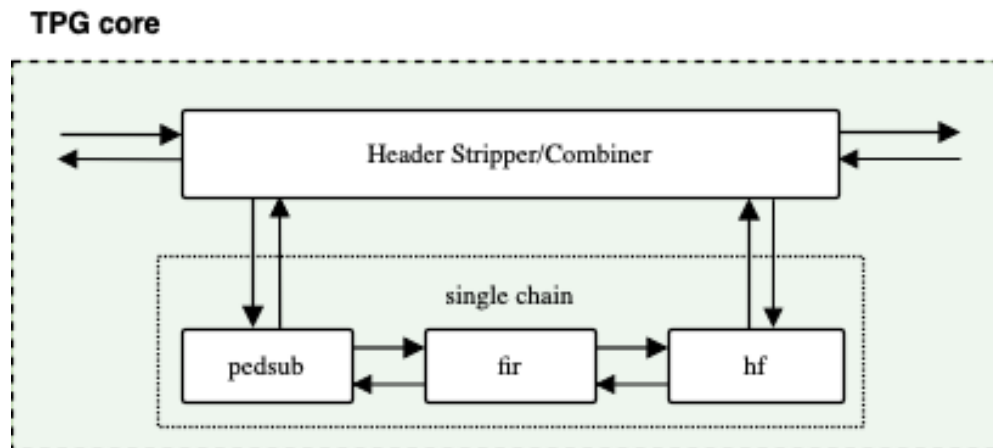
# TPG core – Code Review

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# Code Review

- Did a first pass through the TPG core vhd code
- Documentation in place
  - Will be updated with more details in the next few week
- Added comments in the PedSub-FIR-HF chain
- Header SC needs some cleanup



# Code Review

- Will reduce median/accumulator vector sizes in PedSub
    - Not expecting a major impact on resource utilization, but still it should be done
  - Looking into how to convert the FIR to having reconfigurable number of taps & reconfigurable sets of coefficients
    - Not going to happen within the “code review” task
  - HF block registers a HitStart when 2 consecutive ADC values are above threshold and a HitEnd when the first ADC value after HitStart goes below threshold
    - Could that result to producing false hits?
    - Making it more robust is fairly straightforward
- Started going through the list of issues. Currently < 30 and will be further reduced