TX path fabric i/f timing - normal/HP transmit
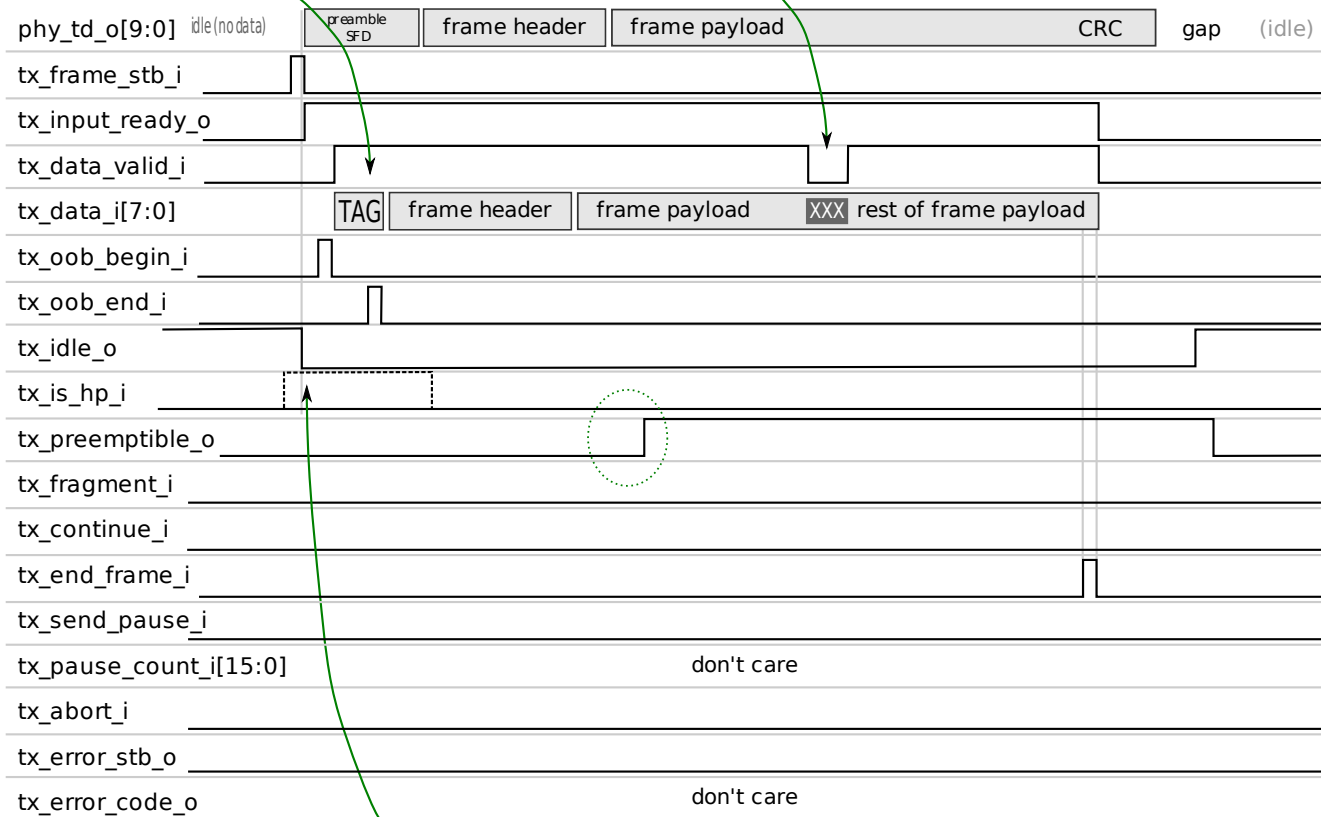
goes high when we have outputted
at leas 64 bytes

unique 16-bit frame tag value
to recover the timestamp

too big gap causes TX FIFO underrun -> TX_UNDERRUN error is issued
for HP frames data must be sent CONTINUOUSLY

Fabric i/f

| phy_td_o[9:0] | idle (no data) | preamble SFD | frame header | frame payload | CRC | gap | (idle) |

tx_frame_stb_i

tx_input_ready_o

tx_data_valid_i

| tx_data_i[7:0] | TAG | frame header | frame payload | XXX | rest of frame payload |

tx_oob_begin_i

tx_oob_end_i

tx_idle_o

tx_is_hp_i

tx_preemptible_o

tx_fragment_i

tx_continue_i

tx_end_frame_i

tx_send_pause_i

tx_pause_count_i[15:0]   don't care

tx_abort_i

tx_error_stb_o

tx_error_code_o   don't care

Should be '1' when rx_frame_stb_i is 1 to transmit HP frame.
TX_preemptible_o, tx_fragment_i, tx_continue_i are ignored in this case.