ctcp_receive()

- buffer into rx_segments_buffered.
- Call ctcp_output in ctcp timer.

ctcp_read()

- Read in chunks of sizes at max → MAX_SEG_DATA_SIZE
- Create segments and buffer into tx_segments_unacked.
- Set tx_eof flag if EOF is received.

ctcp_timer()

- Flush all waiting segments in the tx_segments_unacked buffer.
- Flush all received segments into STDOUT using conn_output.

When we get EOF →

→ Flush the pending segments to be sent.

→ Send FIN.

→ WAIT FOR FIN & output if more segments are received from the other side.

When we get FIN →

→ Flush output to STDOUT

→ Send EOF to stdout using conn_output(state, "", 0)

→ Send the segments read from STDIN and wait till we receive EOF from STDIN before sending FIN.

When we get ACK

Remove the segments we have in the buffer tx_segments_unacked whose seqno. of the last data byte is less than the ACKNO.