

# Progress Report 1 (GSOC '16)

Progress report since the midterm evaluations.

The complete status of the project can be seen [here](#).

All the pull requests made can be reviewed [here](#).

Comments regarding the current progress and suggestions can be made in the actual location of the [gist](#).

## Scenarios completed

- **Blocking calls** - 2 pull requests merged.
  - Test for blocking `read()`.
  - Test for blocking `accept()`.
- **Socket Shutdown** - 3 pull requests made (merge pending), 1 pull request pending.
  - Test for checking behavior of `shutdown(SHUT_RD)`.
  - Test for checking behavior of `shutdown(SHUT_WR)`.
  - Test for checking behavior of `shutdown(SHUT_RDWR)`.
  - Test for checking behavior of `shutdown(SHUT_RD)`, `shutdown(SHUT_WR)` - **PENDING**, will be sent today.

All the previous pull requests have also been merged 2 days back. :thumbsup:

## Current Scenarios

- **Early-Retransmit** - Will be completed by today.
- **Selective Acknowledgements** - Will be completed by today.

## Pending Scenario

- **Path MTU Discovery**

The current status and discussion on this scenario can be looked up [here](#). There are some limitations as a result of which some other way has to be figured out for this scenario.

- **Scenarios left from Linux Repo** -

- fast-recovery
- inet-diag
- init-rto
- initial-window
- ioctl
- receiver-rtt

On completion of the above mentioned scenarios, all the scenarios that were mentioned in the proposal will be worked on. Also, some patches will be made in the packetdrill as were mentioned in the proposal. Since focus has to be made on **TCP**, the segment of timeline which was to be given for **UDP** will be now replaced with additional **TCP** related tests.

# Timeline

Start	End	Task
28 June	14 July	Attempt at completing all the additional TCP based scenarios.
15 July	31 July	Attempt at patching packetdrill by adding a new mode of testing in which remote host will not need an instance of packetdrill running.
1 Aug	11 Aug	Attempt at patching packetdrill to support multiple concurrent connections.
12 Aug	14 Aug	Code review
15 Aug		End of coding (soft)
23 Aug		End of coding (hard)