netconf 2023

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SW simulation of HW offloads

- full SW implementation
 - actually processing TX/RX packets in the way a real driver/device would
 - in netdevsim or similar (depending on the type of offload)
- good
 - able to test core stack changes without access to HW
 - easily test error paths and fallback code
 - more selftests + fuzzing
- bad
 - waste too much time maintaining them and fixing corner cases in the emulation? (instead of finding bugs in the stack)
- ▶ limit the set of offloads to simulate?
 - ipsec, macsec, tls: probably yes
 - ► TLS TOE: probably no
 - things like checksum/TSO/vlan?

netdev features expansion

- netdev_features_t (64b) has been full for a while (NETIF_F_HW_HSR_DUP added in Feb 2021)
- ▶ work to expand started ~2 years ago by Jian Shen
- work stopped (RFCv8) a year ago
- ▶ is there any doubt that this needs to be done?

How to increase the number of reviews: obstacles for reviewers

- finding time (we're all overloaded), convincing managers (or ourselves) to focus on reviews
- complexity of interactions between components
 - can scare away some reviewers (when reading someone else's review: "I wouldn't have found that issue with the patch")
 - which can lead to not sending a formal Reviewed-by ("I think it's ok, but I'm not sure enough of my review")
 - ... or not commenting
 - would maintainers rather see "eh, LGTM, but what do I know?" accompanied by a reviewed-by rather than no reviewed-by? or even just the reviewed-by?
- missing some errors in past reviews
- ► formatting/style issues
 - worth reporting vs very complex (possibly urgent) fixes?
 - where to draw a line?

