IETF Hackathon - NTP

IETF 115

5-6 November 2022

London

Hackathon Plan

- NTPv5 Draft: draft-mlichvar-ntp-ntpv5-05
- Focus on (experimental) interoperable implementations
- Figuring out technical issues in the draft

What got done

- Got two experimental implementations:
  - Miroslav's ntp5-exp (https://github.com/mlichvar/ntp5-exp)
  - NTPD-rs ntpv5 branch (https://github.com/memorysafety/ntpd-rs/tree/ntpv5)
- Verified compatibility
- Specified and implemented draft identification
- Identified a few minor issues in NTPD-rs implementation
- Discussions on timescales and leap seconds

What we learned

- Timescale offsets, especially for UT1, will need some rethinking.
- Identified need for KoD-type mechanism in NTPv5

Wrap up

Team members:

- K. O'Donoghue
- D. Sibold
- M. Lichvar
- C. Weinigel
- D. Venhoek

links:

- https://datatracker.ietf.org/doc/draft-mlichvar-ntp-ntpv5/
- https://github.com/mlichvar/ntp5-exp
- https://github.com/memorysafety/ntpd-rs/tree/ntpv5