(Secure) Clock synchronization on the Internet (SIC)

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Where protocols land?

- Absolute
- Secure
- NTP 4
- sic

Protocols: PTP, TSC, GPS

Error: 1s, RTT, 1ms, 1µs, 1ns

[log]

Insecure
sic: synchronizing Internet clocks

- **RTT based clock**: accurate bitrate and delay change determination
- **secure**: each packet is signed
- **20µs of error**: based on traffic behavior
- **frequency**: clock stability
- **client-server**: simple software distribution

**clone it!**  [https://github.com/CoNexDat/SIC](https://github.com/CoNexDat/SIC)

**draft-alavarez-hamelin-tictoc-sic**