Whats New with DSC

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TCP

- *dsc* can now read DNS messages in TCP.

- Handles fragmentation.

- Handles out-of-order packets.

- Does not (yet) handle messages that span *dsc*'s 60-second collection window.

- Added a *transport* indexer type so that DSC can graphically show number/percent of messages received via TCP vs UDP. For example:

  ```
  dataset transport_vs_qtype dns Transport:transport Qtype:qtype queries-only;
  ```

IPv6

- *dsc* can now read DNS messages sent via IPv6.

- All addresses stored in IPv6 structures, unless compiled without USE_IPV6.

- Added an *ip_version* indexer type so that DSC can graphically show number/percent of messages received via IPv6 vs IPv4.

incoming directory

- DSC presenter now looks for incoming XML files in *incoming/** directories.

- At OARC, we store incoming XML files in *incoming/YYYY-MM-DD*.

faster dsc-xml-extractor.pl

- Previous script did one XML file per process, with lots of /bin/sh gunk in between.

- /bin/sh gunk moved to Perl.

- Multiple XML files per process.

- Data kept in memory to avoid re-reading .dat files.

Future Work

- Attempt SQL storage.

- Combine all XML files from one measurement interval into a single file.

The End