Problem

What does it mean and how to interpret DataWriter protocol status .... and DataReader protocol status ..... messages?

Solution

The messages are produced by BDNT Sender and Receiver, respectively.

- The messages contain:
  - # of samples (frames =64000 bytes) pushed/read
  - # of heartbeats sent/received (HB)
  - # of retrieved/sent ACKs
  - # of retrieved/sent NACKs - number of requests for sample/data/resending

Values in round brackets are number of bytes for each data.
It is important that (on sender side = DataWriter) there are not too many NACKs (=not many requests for resending of the data). It is good if ratio between: "NACKs" and "pushed" is low, below 0.1 (10%). If ratio is high means problems on either network or receiver (too slow).
In case of using TCP (reliable!) transmission # NACKs should be 0 (or maybe a bit more).

Be aware that this message is generated just if `BULKDATA_NT_DEBUG` is set to 1 or more, and it is a DEBUG message!

In `bulkDataNT/src/` exists `protocolStatsParseLog` script (still a prototype) that can help to search/grep XML logs for protocol status messages".

-- BogdanJeram - 2013-09-26

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