

Problem

How to run bulkData NT synthetic tests?

Solution

There are available as part of bulkDataNT installation, two tools for running different synthetic test:

- generic sender: `bulkDataNTGenSender`
- generic receiver: `bulkDataNTGenReceiver`

For the options of each please run the tool w/o option, or `-h` option.

One2Many case (multi-cast)

- In receiver computers run generic receiver like: `bulkDataNTGenReceiver -s TestStream -f00,01,02`
- In **one** (sender) computer run generic sender like: `bulkDataNTGenSender -s TestStream -f00,01,02 -b 4000000`

Many2One case

- in **one** receiver computers run generic receiver like: `bulkDataNTGenReceiver -s TestStream -f00,01,02 -u`
- In (sender) computers run generic sender like: `bulkDataNTGenSender -s TestStream -f00,01,02 -b 4000000`

or

- In **one** receiver computers run generic receiver like: `bulkDataNTGenReceiver -s TS -f00,01,02,04 -u`
- In arbitrary computer (not necessary a sender one) run (in `bulkDataNT/src`): `bulkDataNTremoteTest -s cob-cpn-01,cob-cpn-02,cob-cpn-03,cob-cpn-04 -b 4000000`.

At the moment script assumes that stream is TS, and for each host a flow is created starting from 00. So in this case we run senders in `cob-cpn-01,cob-cpn-02,cob-cpn-03,cob-cpn-04` which send data of size 4000000. The results (output) from all the hosts are written in files in `~/` - a file per host. The output data can be processed (and plot generated) by running: `bulkDataNTprocessRemoteTestResults` in `bulkDataNT/src`

By default it is used UDP, if you want to "switch" to TCP please use `--qos_lib=TCPBulkDataQoSLibrary` option.

There is provided also script that automatize (and generates report) the tests. It is called: `bulkDataNTremoteTest`. An example for testing nodes to master data rate (using reliable UDP):

```
../bin/bulkDataNTremoteTest --source=/alma/ste/etc/defaultEnv -s cob-cpn-01,cob-cpn-02,cob-cpn-03,cob-cpn-04,cob-cpn-05,cob-cpn-06,cob-cpn-07,cob-cpn-08,cob-cpn-09,cob-cpn-10,cob-cpn-11,cob-cpn-12,cob-cpn-13,cob-cpn-14,cob-cpn-15,cob-cpn-16 -b 6400000 -l 20
```

If you want to "switch" to TCP please use `--qos_lib=TCPBulkDataQoSLibrary` option. For the details run the script with `--help` option.

-- [BogdanJeram](#) - 05 Feb 2013

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