ndnSIM - Task #4672

ndnSIM Congestion Control: Implement BIC and CUBIC

07/18/2018 01:45 PM - Klaus Schneider

Status:	Closed	**Start date:**	07/18/2018
Priority:	Normal	**Due date:**	
Assignee:	Klaus Schneider	**% Done:**	100%
Category:		**Estimated time:**	0.00 hour
Target version:			

Description

In addition to task #4578, we want to implement the BIC and CUBIC window adaptation.

An early version of the code is available in this Hackathon repository: https://github.com/6th-ndn-hackathon/congestion-control

More specifically:

- https://github.com/6th-ndn-hackathon/congestion-control/blob/master/apps/ndn-consumer-pcon.cpp
- https://github.com/6th-ndn-hackathon/congestion-control/blob/master/apps/ndn-consumer-pcon.hpp

Related issues:

Related to ndnSIM - Feature #4578: Make NFD Congestion Control work in ndnSIM	**Closed**

History

#1 - 07/18/2018 01:45 PM - Klaus Schneider

- Related to Feature #4578: Make NFD Congestion Control work in ndnSIM added

#2 - 07/18/2018 06:07 PM - Klaus Schneider

Actually the current code also has a bug that results in a runtime error:

```
terminate called after throwing an instance of 'boost::exception_detail::clone_imp
lboost::exception_detail::error_info_injector<ndn::name::Component::Error >'
what():  Name component does not have the requested marker or the value is not a
nonNegativeInteger
```

It's caused by the line

```
uint64_t sequenceNum = data->getName().get(-1).toSegment();
```

which should read

```
uint64_t sequenceNum = data->getName().get(-1).toSequenceNumber();
```

#3 - 07/18/2018 07:00 PM - Klaus Schneider

- Status changed from New to Code review

#4 - 07/18/2018 07:01 PM - Klaus Schneider

https://gerrit.named-data.net/#/c/ndnSIM/+/4859/

#5 - 03/16/2019 12:15 PM - Klaus Schneider

- Status changed from Code review to Closed

- % Done changed from 0 to 100

Done a long time ago.