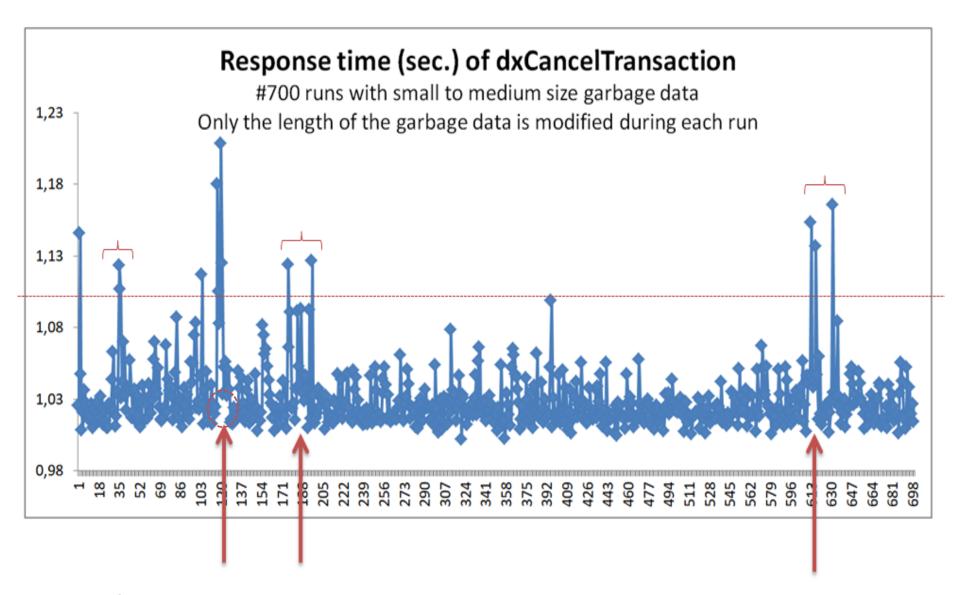
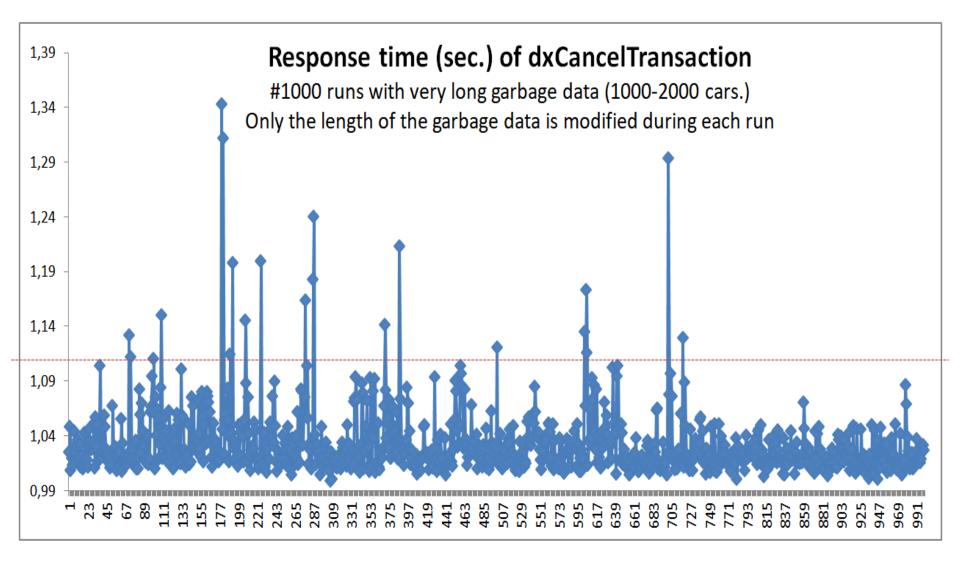


API Testing

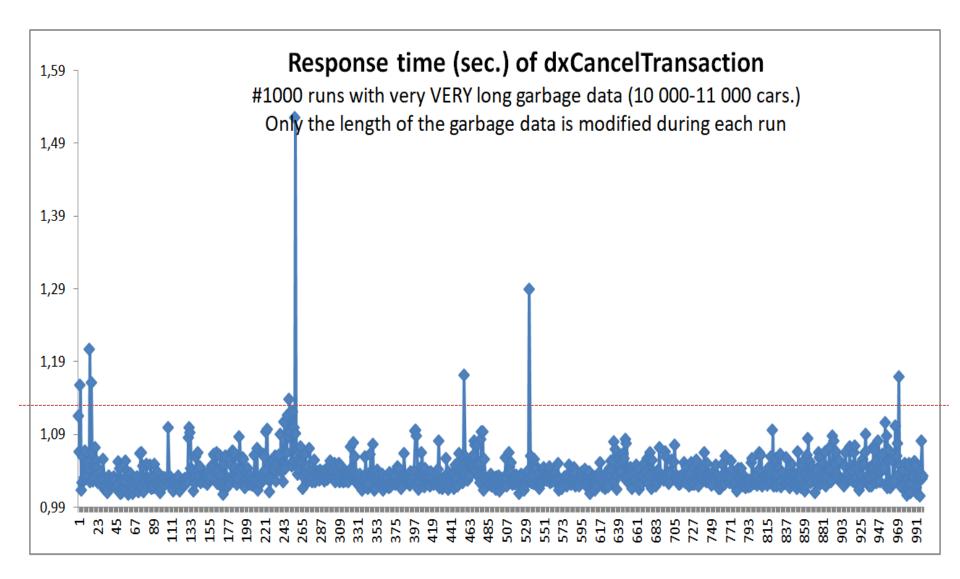
- Goal: API stress testing with malformed data and response time analysis.
- Number of runs is enough to distinguish noise, but is kept limited for now.
- Just as a personal opinion, it would be nice to get, in any scenario (including when dex is fully loaded), no more than 1.10 seconds
 95% of the time; which is represented by the dotted red line on the graphs.
- Length of input parameters is voluntarily oversized to check if this is possible to jam or crash the application, or throw assertion errors.
- **Environment:** Windows 10 x64, Python 3.6.
- Only garbage data is thrown at the API of the blocknet-client.
- Garbage data is randomized at each run.
- Each measurement in done in seconds, and may contain a small overhead because the tests are run from full coding environment (PyCharm 2017.2), which is sometimes memory heavy.



Average	Standard deviation	95% Quantile
1.029 sec.	0.02	1.06 sec.

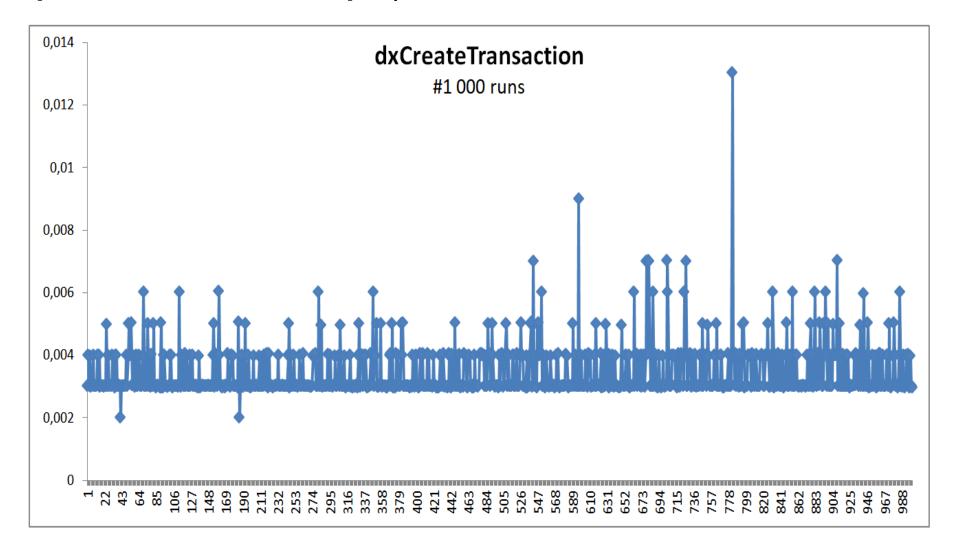


Average	Standard deviation	95% Quantile
1.031 sec.	0.03	1.08 sec.

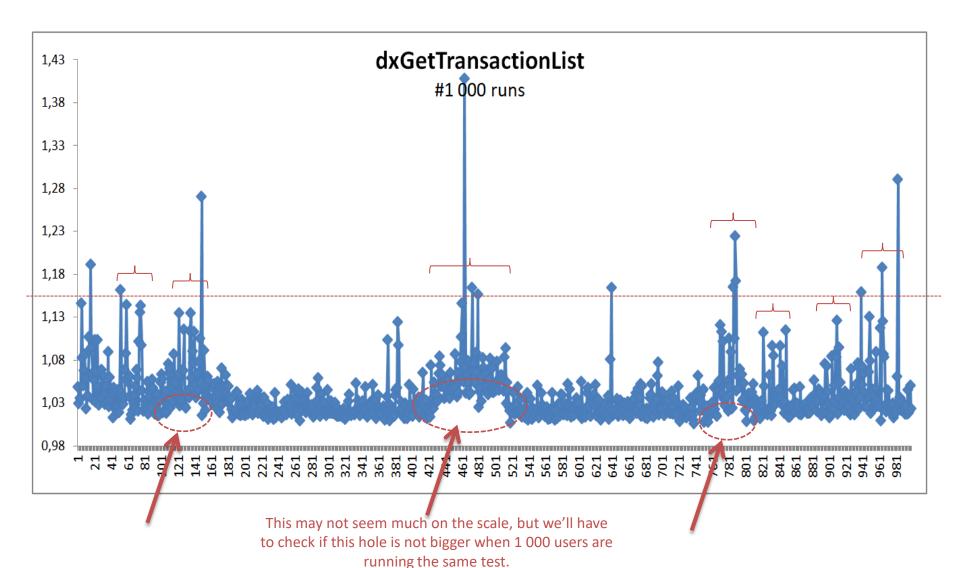


Average	Standard deviation	95% Quantile
1.036 sec.	0.02	1.07 sec.

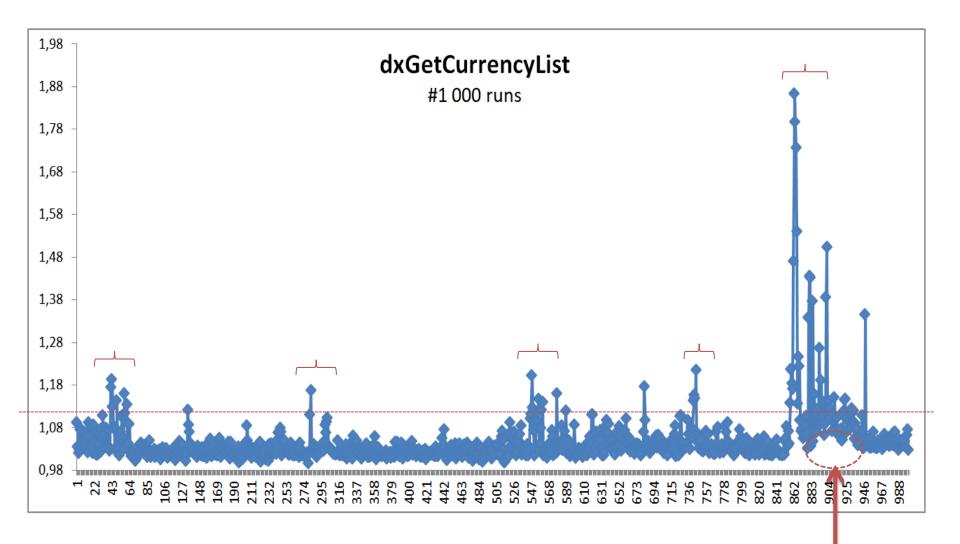
dxCreateTransaction requires two numerical parameters aswell, so random numbers from range [-99999999999;+99999999999] are picked at each run to feed the API.



Average	Standard deviation	95% Quantile
0.003 sec.	0.0008	0.005 sec.

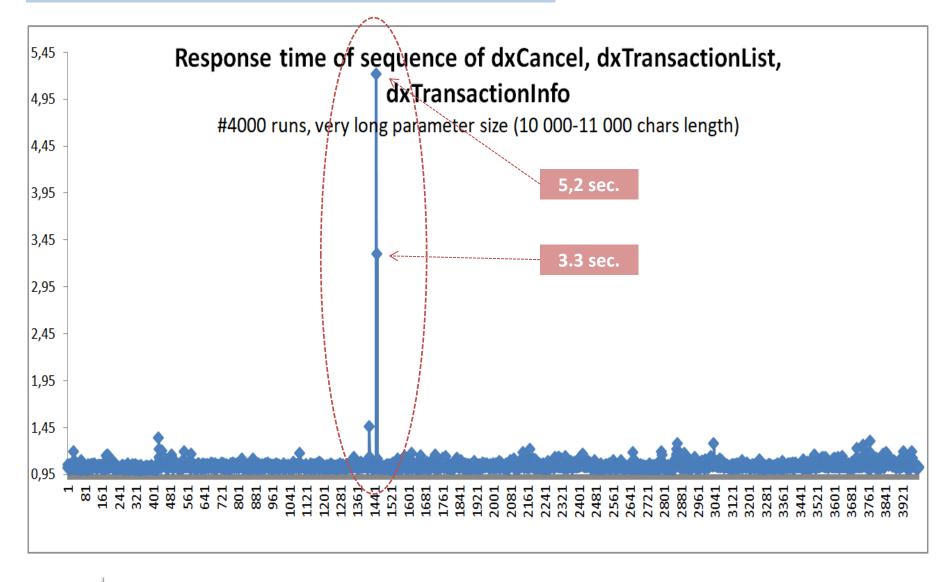


Average Standard deviation 95% Quantile 1.03 sec. 0.03 1.09 sec.



Average	Standard deviation	95% Quantile
1.05 sec.	0.06	1.12 sec.

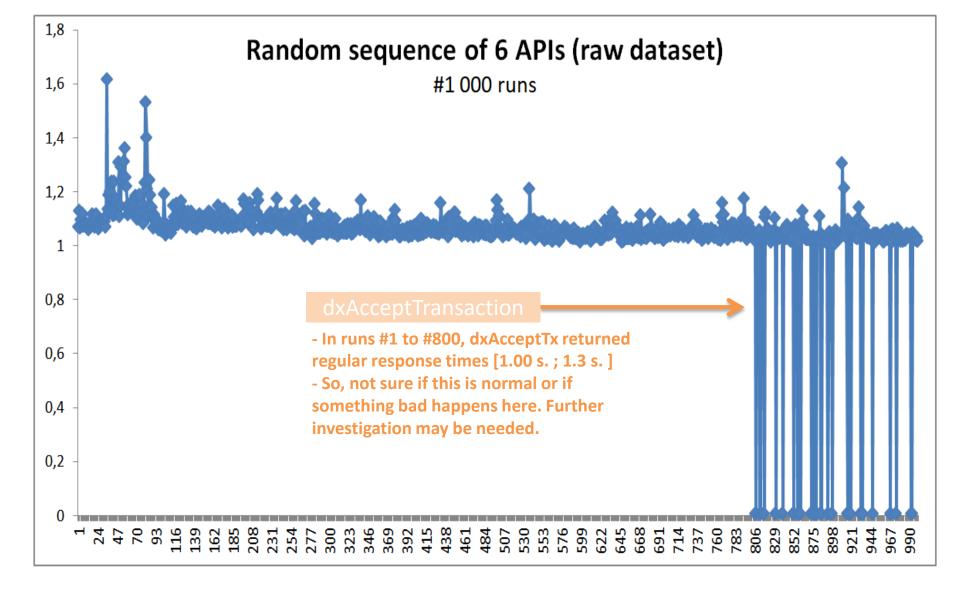
API call order is defined in this test sequence



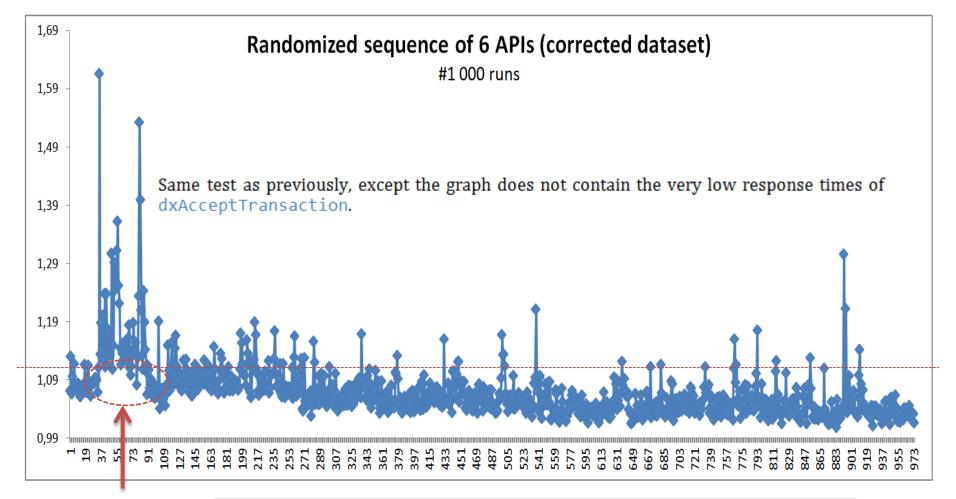
Average	Standard deviation	95% Quantile
1.0385 sec.	0.08	1.085 sec.

Preliminary information for the next tests

- List of the 6 APIs included in the following tests:
 - getTransactionHistory
 - getCurrencyList
 - getTransactionInfo
 - acceptTransaction
 - getTransactionList
 - cancelTransaction
- The API to be executed at each run is selected randomly from this list by the program.
- createTransaction is excluded from the list because it skews the overall results.



Average	Standard deviation	75% Quantile	Min	Max
1.04 sec.	0.18	1.08 sec.	0.01 sec.	1.62 sec.



	Longest API Calls	time
34	<pre><function 0x000001469a00bbf8="" at="" timed_check_get_tx_list=""></function></pre>	1,62
48	<pre><function 0x000001469a00b950="" at="" timed_check_accept_tx=""></function></pre>	1,31
54	<pre><function 0x000001469a00bbf8="" at="" timed_check_get_tx_list=""></function></pre>	1,31
55	<pre><function 0x000001469a00b950="" at="" timed_check_accept_tx=""></function></pre>	1,36
80	<pre><function 0x000001469a00bbf8="" at="" timed_check_get_tx_list=""></function></pre>	1,53
81	<pre><function at<="" pre="" timed_check_get_currency_list=""></function></pre>	1,40
	0x000001469A00BF28>	
909	<pre><function 0x000001469a00bbf8="" at="" timed_check_get_tx_list=""></function></pre>	1,31

Previous test is repeated to check for results consistency.

