**How are commands (queries/posts) generated?** Random, pre-computed or algorithmic? Random means generation overhead while stress testing. Pre-generated means storing and later retrieving them. **Algorithmic – start with random topic and content, algorithmically transform it with each iteration (e.g. add a number at the end).**

Client-side test harness data storage and server storage should match once testing is complete. Need to validate this, can just save both sets of data and compare at the end. **Note that due to parallelism the requests may (probably) be in different orders in different places. Each request should have an ID so can still be programmatically compared.**

**ACK means acknowledgement** (http response)

Use Debug -> Windows -> Show Diagnostic Tools to find bottlenecks and optimise them

WSACleanup() cleans up memory for the TCP stack for the whole application. This means when you destroy (destruct) the server or any client, neither the server or any client will be able to operate anymore. Because of this, a barrier is necessary at the end as well as the start of multithread execution to make sure clients are not prematurely stopped from executing

Tests can sometimes run slightly over 10 seconds due to delay in response (request sent before 10s, response receives after 10s). Any overrun must be accounted for in speed calculations

Try -O2 and -O3 compilation flags?

To submit VS project, delete .vs, Release, Debug, x64 folders. Copy exe from Release folder into root folder