Quoting Hiroshi Fujinoki <hfujino@siue.edu>:

> Alex:

>

> I carefully read your experiment designs and I got the following minor

> questions.

> Can you help me for the three questions?

>

> Questions:

>

> (a) What do you mean by "a trial run" in (8) in section 1.1?

A trial run, for a particular **experiment design** and inputs, is the following:

* Generate an artificial text corpus—call this D.
  + According to the language model – I’m looking into some nice looking libraries for this.
* Generate a set of queries to be used against the text corpus—call this Q.
  + Some of the queries will be pre-built, some will be randomly generated.
* Use an established IR system to map queries in Q to a set of ranked documents in D.
* Generate a secure index database (Bloom filter, Perfect filter, and the less secure Inverted index) for D.
* Use the secure index databases to map queries in Q to a set of ranked documents in D.
* Measure the outputs from each one, compared to the established IR reference platform.
* Do the above **N** times for a statistical measure: note that each of the N trial runs will be slightly different. The average of these N trial run outcomes will be for the particular experiment design and inputs chosen at the start.

> (b) Regarding (9) in section 1.1, there was a statement, "Go back to step

> three N more times". Does "N" in this statement mean "number of words per

> document" in section 1.2?

No, the N refers to N trials. I hope I explained this a little better. The idea is to get multiple samples for each design experiment / input for statistical analysis.

> (c) What is "SDIs" (the one used for the definition of "text corpus class"

> in Table 1)?

That’s a good point. I did not explain what I meant by that. I think I meant SID for Secure Document Index. Thanks for pointing that out, I apologize about that.

> I hope you take these questions easy and I hope they will not take your time.

Sorry I didn’t get to this earlier. I meant to respond to this earlier this morning.