Dear Dr. Ajitha Rajan,

On behalf of my co-authors, we thank you very much for giving us an opportunity to revise our manuscript, we appreciate editor and reviewers very much for their positive and constructive comments and suggestions on our manuscript entitled “Discover Deeper Bugs with Dynamic Symbolic Execution and Coverage-based Fuzz Testing”. (ID: SEN-2017-0200.R1).

We have studied reviewer’s comments carefully and have tried our best to revise our manuscript according to the comments. At this time, we have re-submitted the revised paper through the Author Center, and we hope to have an opportunity to publish this paper in IET Software.

The main corrections in the paper and the response to the reviewer’s comments are as flowing:

Responds to the reviewer’s comments:

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Reviewer #1:

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Comment 1: Algorithm 1’s line 16: if B\_sat is a list a buckets then this line should "foreach B in B\_sat do\n foreach addr in B.addr do".

Response: We are really sorry for this mistake, we fixed this line in Algorithm 1 according to the reviewer's comment.

Comment 2: In Algorithm 1, if extraCond is built using curExtraCond and curExtraCond is built using C\_new and C\_new is something like "e\_addr = addr" then I don't understand why you say that "extraCond = {buf[0] = 'D'}"? "buf[0] = 'D'" seems not be something like "e\_addr = addr".

Response: The reviewer’s comment is exact correct. The built extraCond should be {e\_addr == &text\_chars + 'D'}, where e\_addr is “&text\_chars + buf[0]”. And this condition will derive the result that the failed condition can be solved when buf[0] is 'D'.

Comment 3: The discussion of Algorithm 1 still needs some work

Response: We fixed the same problem as mentioned in the reviewer’s comment 2 in Section 3.1. The four buckets are corrected by adding ‘+ &text\_chars’ for their "addr"s. Meanwhile, we replaced the value of "v" for each bucket with the macro defined in Listing 2 to make the discussion more clear. We also renewed the discussion about how LCSP performs on the code snippet in Listing 2 (as shown in the last seven paragraphs in Section 3.1).

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Reviewer #2:

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Response: Thank you for the reviewer’s comment.

We would like to express our great appreciation to you and reviewers for comments on our paper. Looking forward to hearing from you.

Thank you with best regards.

Yours sincerely,

Bin Zhang

Corresponding author:

Name: Bin Zhang

E-mail: binzh4ng@hotmail.com