Real World Bug Hunting A Field To Web Hacking

understanding and detecting real-world performance bugs - bug avoidance, testing, detection, and fixing tools. this paper makes the first, to the best of our knowledge, com-prehensive study of real-world performance bugs based on 109 bugs randomly collected from the bug databases of five representa-tive open-source software suites (apache, chrome, gcc, mozilla, and mysql). **understanding real-world concurrency bugs in go** - rency bugs with six real-world, production-grade go applications. • we made nine high-level key observations of go con-currency bug causes, fixes, and detection. they can be useful for go programmers' references. we further make eight insights into the implications of our study results to guide future research in the development, **a comprehensive study of real-world numerical bug ...** - real-world numerical bug characteristics. the goal of this paper is to study the causes, symptoms, and fixes of numerical bugs in numerical libraries, and provide a high-level categorization that can serve as a guide for researchers to develop tools for finding and fixing numerical bugs. **understanding, detecting, and diagnosing real-world ...** - understanding, detecting, and diagnosing real-world performance bugs by linhai song a dissertation submitted in partial fulfillment of the requirements for the degree of doctor of philosophy (computer sciences) at the university of wisconsin–madison 2015 date of final oral examination: 10/16/2015 **learning from mistakes Š a comprehensive study on real ...** - prehensive real world concurrency bug characteristic study. specif-ically, we examine the bug patterns, manifestations, x strate-gies and other characteristics of real world concurrency bugs. our study is based on 105 randomly selected real world concurrency bugs, including 74 non-deadlock bugs and 31 deadlock bugs, col- **dscope: detecting real-world data corruption hang bugs in ...** - figure 1: a real-world data corruption hang bug from hdfs. a corrupted ˙le f associated with the lease path p makes the internalreleaselease function fail for recovering the lease for f. when this failure happens, p is not removed from sortedleases (skip updating loop index), leasemanager keeps recovering lease for the ˙le f endlessly. **software testing in the real world - bcs** - a tester says "i will raise this bug later in case i find a bigger one." ... "software testing in the real world" ... **an empirical study on real bug fixes - web.ucdavis** - them directly on real bugs. instead, in this paper, we design and develop bugstat, a tool that extracts and analyzes bug fixes. with bugstat's support, we conduct an empirical study on more than 9,000 real-world bug fixes from six popular java projects. comparing the nature of manual fixes with automatic program **understanding and generating high quality patches for ...** - patches for real-world concurrency bugs. guided by this study, we then build a new bug xing tool hfix that can automatically generate patches with matching quality as manual patches for many concurrency bugs. study manual patches we have checked the manual patches of 77 real-world concurrency bugs collected from a **statistical debugging for real-world performance problems** - statistical debugging for real-world performance problems linhai song shan lu university of wisconsin–madison fsonglh, shanlug@cs.wisc abstract design and implementation defects that lead to inefficient computation widely exist in software. these defects are dif-ficult to avoid and discover. they lead to severe performance **automated concurrency-bug fixing - usenix** - der among bug-related instructions). we do not require that the bug detector accurately report bug root causes, which we will demonstrate using real-world examples in section 6. 2.1 mutual exclusion and ordering to effectively handle different types of concurrency bugs and bug detectors, cfix decomposes every bug into a com- **using a probabilistic model to predict bug fixes - csu** - on these real-world probabilities. as a result, our work goes beyond prior work that leverages human bug fixes in a program repair context [5], [18], [23] by generalizing to a broader and more expressive set of mutation operators, and using a fully-automatically-mined model much earlier in the apr process, when patch candidates are actually ... **vulnerability disclosure in the age of social media ...** - real-world exploit if it is used in attacks. the existence of a real-world or poc exploit gives urgency to fixing the corresponding vulnerability, and this knowledge can be utilized for prioritizing remedi-ation actions. we investigate the opportunities for early detection of such exploits by using information that is **jacontebe: a benchmark suite of real-world java ...** - jacontebe: a benchmark suite of real-world java concurrency bugs ziyi lin , darko marinovy, hao zhong z, yuting chen , and jianjun zhaoz school of software, shanghai jiao tong university, china ydepartment of computer science, university of illinois at urbana-champaign, usa **automatic repair of real bugs: an experience report on the ...** - real-world java bugs. each bug in defects4j is provided with a test suite and at least one failing test case that trig-gers the bug. in this paper, we report on an experiment to explore the e ectiveness of automatic repair on defects4j. the result of our experiment shows that 47 bugs of the de-fects4j dataset can be automatically repaired by ...

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