

Chromium integration

Homework Assignment





Fuzz target (== target function)

```
#include "libxml/parser.h"

extern "C" int LLVMFuzzerTestOneInput(const uint8_t *data, size_t size) {
   auto doc = xmlReadMemory(data, size, "noname.xml", NULL, 0);
   if (doc) {
     xmlFreeDoc(doc);
   }
   return 0;
}
```



Build configuration

```
fuzzer_test("libxml_xml_read_memory_fuzzer") {
   sources = [
     "libxml_xml_read_memory_fuzzer.cc",
   ]
   deps = [
     "//third_party/libxml:libxml",
   ]
}
```





- The Chrome Fuzzer Program allows you to run fuzzers on Google hardware at Google scale across thousands of cores. You receive 100% of the reward value for any bugs found by your fuzzer plus a bonus \$500, provided the same bug was not found by one of our fuzzers within 48 hours. There are two ways to participate:
 - libFuzzer
 - ClusterFuzz





Chrome Fuzzer Program





ZERONIGHTS

How to start [1/2]

Find a function with raw data input controlled by external source (user, server, etc)

First version of the fuzzer is ready, let's fuzz!

Chose "entry point"

LLVMFuzzerTestOneInput(

Done

Write a target function which feeds fuzzer's data into function chosen to fuzz

ZERONIGHTS Find inputs south

How to start [2/2]

Find a function with raw data input controlled by external source (user, server, etc)

First version of the fuzzer is ready, let's fuzz!



Replace testing input with data provided by LibFuzzer and wrap it into target function



Q & A



Thank you!

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