

Oct 16, 17 18:21

renjiem

Page 1/2

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=====
=== Compiling with gcc -Wall -o ass2 *.c -lm
=====
5  === Compilation finished
    === Testing begins
    === test 3: ass2 < test3.txt | tail -60
=====
*** glibc detected *** ass2: double free or corruption (out): 0x0000000001e37820 **
*
10  ===== Backtrace: =====
    /lib64/libc.so.6[0x3a6ba75f3e]
    /lib64/libc.so.6[0x3a6ba78dd0]
    ass2[0x4008c0]
    /lib64/libc.so.6(__libc_start_main+0xfdf)[0x3a6baled1d]
15  ass2[0x400619]
    ===== Memory map: =====
    00400000-00403000 r-xp 00000000 08:01 1314906                /home/ss/s
    ubrun-4000v-cis-dimefox-l-22724/comp10002_ass2/renjiem/ass2
    00602000-00603000 rw-p 00002000 08:01 1314906                /home/ss/s
    ubrun-4000v-cis-dimefox-l-22724/comp10002_ass2/renjiem/ass2
    01e37000-01e58000 rw-p 00000000 00:00 0                    [heap]
20  3a6b600000-3a6b620000 r-xp 00000000 08:01 1048849            /lib64/ld-
    2.12.so
    3a6b81f000-3a6b821000 r--p 0001f000 08:01 1048849            /lib64/ld-
    2.12.so
    3a6b821000-3a6b822000 rw-p 00021000 08:01 1048849            /lib64/ld-
    2.12.so
    3a6b822000-3a6b823000 rw-p 00000000 00:00 0
    3a6ba00000-3a6bb8a000 r-xp 00000000 08:01 1048852            /lib64/lib
    c-2.12.so
25  3a6bb8a000-3a6bd8a000 ---p 0018a000 08:01 1048852            /lib64/lib
    c-2.12.so
    3a6bd8a000-3a6bd8e000 r--p 0018a000 08:01 1048852            /lib64/lib
    c-2.12.so
    3a6bd8e000-3a6bd90000 rw-p 0018e000 08:01 1048852            /lib64/lib
    c-2.12.so
    3a6bd90000-3a6bd94000 rw-p 00000000 00:00 0
    3a6be00000-3a6be83000 r-xp 00000000 08:01 1049054            /lib64/lib
    m-2.12.so
30  3a6be83000-3a6c082000 ---p 00083000 08:01 1049054            /lib64/lib
    m-2.12.so
    3a6c082000-3a6c083000 r--p 00082000 08:01 1049054            /lib64/lib
    m-2.12.so
    3a6c083000-3a6c084000 rw-p 00083000 08:01 1049054            /lib64/lib
    m-2.12.so
    3a75a00000-3a75a16000 r-xp 00000000 08:01 1049723            /lib64/lib
    gcc_s-4.4.7-20120601.so.1
    3a75a16000-3a75c15000 ---p 00016000 08:01 1049723            /lib64/lib
    gcc_s-4.4.7-20120601.so.1
35  3a75c15000-3a75c16000 rw-p 00015000 08:01 1049723            /lib64/lib
    gcc_s-4.4.7-20120601.so.1
    7f156c000000-7f156c021000 rw-p 00000000 00:00 0
    7f156c021000-7f1570000000 ---p 00000000 00:00 0
    7f157002f000-7f1570032000 rw-p 00000000 00:00 0
    7f157004b000-7f157004f000 rw-p 00000000 00:00 0
40  7ffcab4ad000-7ffcab4c2000 rw-p 00000000 00:00 0            [stack]
    7ffcab573000-7ffcab574000 r-xp 00000000 00:00 0            [vdso]
    ffffffff6000000-ffffffff601000 r-xp 00000000 00:00 0        [vsyscall]
    S1: grid is 6 x 5, and has 30 intersections
    S1: of 120 possibilities, 30 of them cannot be used
45  S1: total cost of remaining possibilities is 1857 seconds
    S1: 3 grid locations supplied, first one is 0a, last one is 4e

    S2: start at grid 0a, cost of 0
    S2:      then to 1a, cost of 9
50  S2:      then to 2a, cost of 19
    S2:      then to 3a, cost of 28
    S2:      then to 3b, cost of 40
    S2:      then to 3c, cost of 50
    S2:      then to 2c, cost of 60
55  S2: start at grid 0a, cost of 0
    S2:      then to 1a, cost of 9
    S2:      then to 2a, cost of 19

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Oct 16, 17 18:21

renjiem

Page 2/2

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60 S2:      then to 3a, cost of 28
    S2:      then to 3b, cost of 40
    S2:      then to 3c, cost of 50
    S2:      then to 3d, cost of 70
    S2:      then to 3e, cost of 82
    S2:      then to 4e, cost of 126

65 S3:      0      1      2      3      4      5
    S3:  +-----+-----+-----+-----+-----+
    S3: a | 0 >>>> 9 >>>> 19 >>>> 28 >>>> 34 >>>> 45
    S3:   | v      v      v      v      v      v
    S3:   | v      v      v      v      v      v
70 S3: b | 38      32      21      25      46 >>>> 54
    S3:   | v      ^      ^      ^      v      v
    S3:   | v      ^      ^      ^      v      v
    S3: c | 48      22 <<<< 0 >>>> 17 >>>> 40 >>>> 74
    S3:   | v      v      v      v      v      v
75 S3:   | v      v      v      v      v      v
    S3: d | 66      56      23      37      50      103
    S3:   | ^      ^      ^      ^      v      v
    S3:   | ^      ^      ^      ^      v      v
    S3: e | 57 <<<< 44 <<<< 34 <<<< 12 <<<< 0      116
=====
=== test 4: ass2 < test4.txt | tail -60
=====
S1: grid is 8 x 5, and has 40 intersections
S1: of 160 possibilities, 39 of them cannot be used
85 S1: total cost of remaining possibilities is 2449 seconds
    S1: 5 grid locations supplied, first one is 1c, last one is 1d

S2: start at grid 1c, cost of 0
S2:      then to 0c, cost of 31
90 S2: start at grid 1c, cost of 0
    S2:      then to 1b, cost of 41
    S2: start at grid 1c, cost of 0
    S2:      then to 2c, cost of 10
    S2: start at grid 1c, cost of 0
95 S2:      then to 2c, cost of 10
    S2:      then to 2d, cost of 33
    S2:      then to 1d, cost of 84

100 S3:      0      1      2      3      4      5      6      7
    S3:  +-----+-----+-----+-----+-----+-----+
    S3: a | 33      21 >>>> 31 >>>> 40 >>>> 46 >>>> 57 >>>> 71 >>>> 85
    S3:   | ^      ^      ^      ^      ^      ^      ^      v
    S3:   | ^      ^      ^      ^      ^      ^      ^      v
105 S3: b | 2      0 >>>> 17      34      55 >>>> 63 >>>> 80      96
    S3:   | ^      ^      ^      ^      ^      ^      ^      v
    S3:   | ^      ^      ^      ^      ^      ^      ^      v
    S3: c | 0      0      0 >>>> 17 >>>> 40      72      88      118
    S3:   | v      v      v      v      v      v      v      v
    S3:   | v      v      v      v      v      v      v      v
110 S3: d | 8      0 >>>> 10      27 >>>> 61      80      91 >>>> 123
    S3:   | v      v      v      v      v      v      v      v
    S3:   | v      v      v      v      v      v      v      v
    S3: e | 30 <<<< 17 >>>> 22      39 >>>> 83      98 >>>> 109 >>>> 124
=====
115 === Testing ended
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