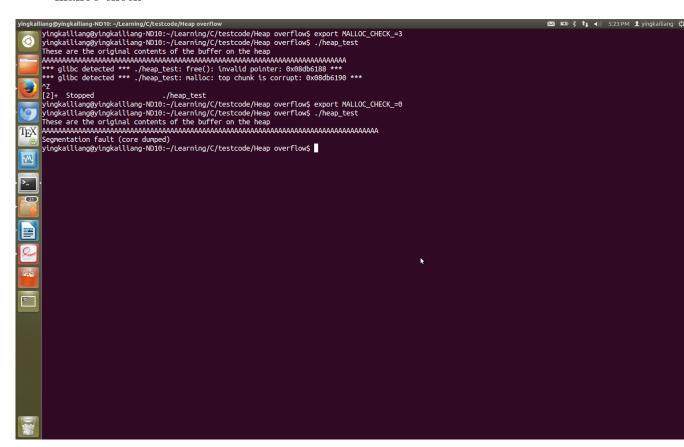
1 Heap Buffer overflow

1.1 Protection

- memory randomize
- stack guard
- no excutable stack (optional)
- malloc check



1.2 vulnerable program

```
#Include existion.bs
#Inc
```

1.3 hypothetical attack

Create a fake free chunk, after the chunk we which we need to free. I have fully control of what "fake free chunk" look at.

The idea is based on glibc malloc.c source code free() function.

```
/* consolidate forward */
if (!nextinuse) {
    unlink(nextchunk, bck, fwd);|
    size += nextsize;
} else
    clear_inuse_bit_at_offset(nextchunk, 0);
```

How to create this fake chunk: