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## Buffer overflow causing RCE in readelf #243

Closed

liyansong2018 opened this issue on Jun 10 · 0 comments

```
liyansong2018 commented on Jun 10
Hi,
readelf in ToaruOS 2.0.1 has a global overflow allowing RCE when parsing a crafted ELF file. Through
elaborately constructed elf files, remote code execution can be realized.
PoC
  ./readelf -d poc_elf_overflow
  Dynamic section at offset 0x2df8 contains (up to) 30 entries:
                                             Name/Value
                Type
  zsh: segmentation fault ./readelf -d poc_elf_overflow
poc_elf_overflow.zip
Patch
  $ git diff
  diff --git a/apps/readelf.c b/apps/readelf.c
  index ce25d5e1..91f5e722 100644
  --- a/apps/readelf.c
  +++ b/apps/readelf.c
  @@ -168,7 +168,7 @@ static char * dynamicTagToStr(Elf64_Dyn * dynEntry, char * dynstr) {
                           break;
                  case DT_NEEDED:
                           name = "(NEEDED)";
                           sprintf(extra, "[shared lib = %s]", dynstr + dynEntry->d_un.d_val);
                           snprintf(extra, 500, "[shared lib = %s]", dynstr + dynEntry->d_un.d_val);
                           break;
                  case DT_PLTRELSZ:
                           name = "(PLTRELSZ)";
  @@ -286,7 +286,7 @@ static char * dynamicTagToStr(Elf64_Dyn * dynEntry, char * dynstr) {
                           break;
          }
```

```
sprintf(buf,"%-15s %s", name, extra);
       snprintf(buf, 1024, "%-15s %s", name, extra);
       return buf;
}
```



klange closed this as completed in 5d36d27 on Aug 17

Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

