

# XCTF easyGo

原创

YenKoc 于 2020-04-16 11:36:00 发布 188 收藏

分类专栏: [XCTF](#)

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: <https://blog.csdn.net/YenKoc/article/details/105553121>

版权

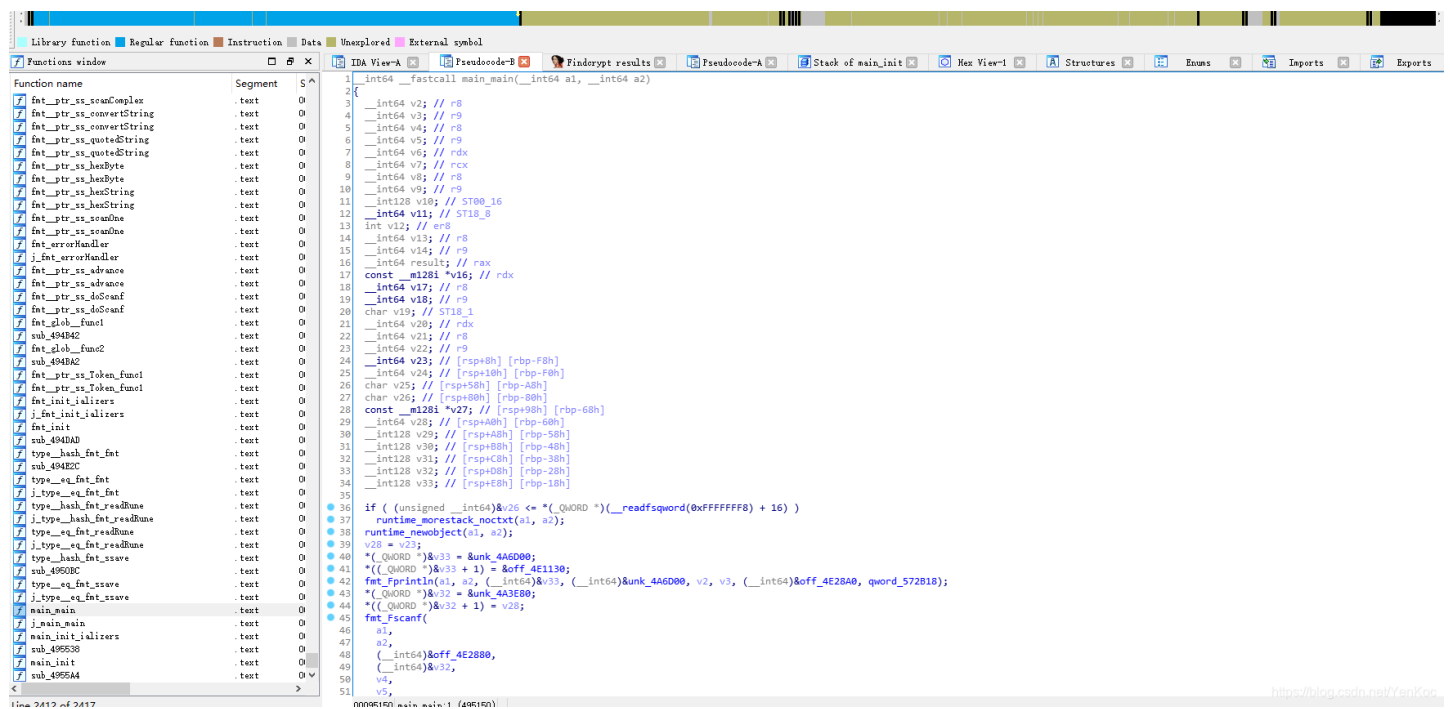


[XCTF 专栏收录该内容](#)

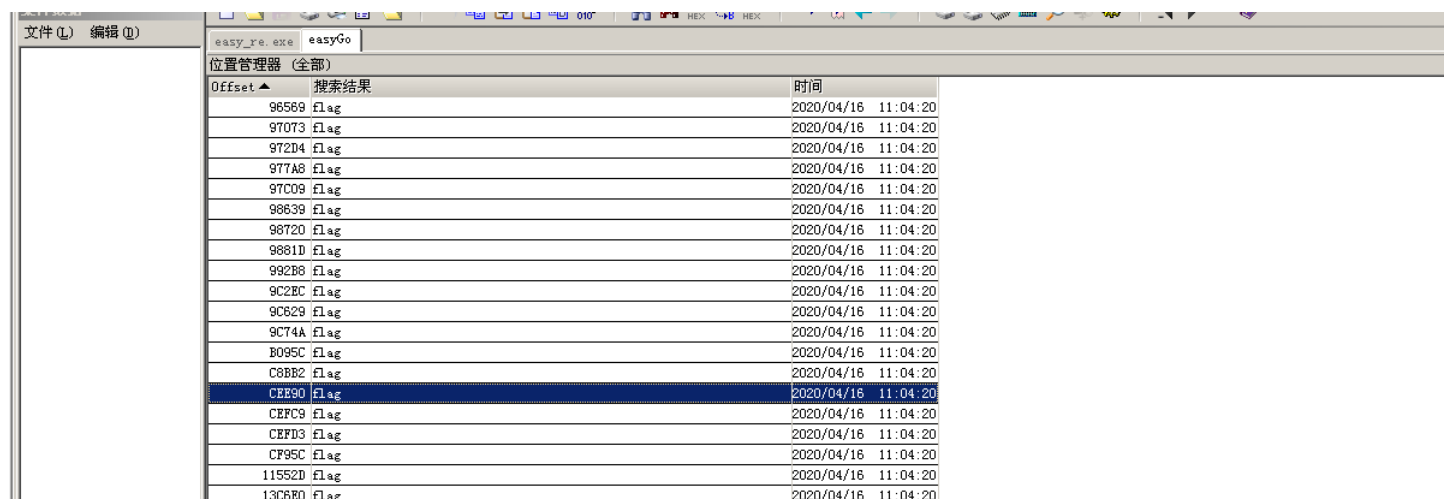
26 篇文章 2 订阅

订阅专栏

拖入ida, 发现符号表需要还原一下, 载入一个还原符号表的脚本。



go这个语言就有点恶心, 字符串后面没有反斜杠零, ida识别出来, 字符串就会挤在一堆, 就很难看, 看了某位师傅的wp, 觉得这种方法不错, 就记录下, 用winhex打开, 根据文件的偏移转换成逻辑地址来看。



Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
13C8F5	flag																2020/04/16 11:04:20
13C7C0	flag																2020/04/16 11:04:20
13C8A8	flag																2020/04/16 11:04:20
13CF79	flag																2020/04/16 11:04:20
000CEDC0	69	6E	65	20	63	68	61	72	61	63	74	65	72	67	63	6D	ine charactergcm
000CEDD0	61	72	6B	6E	65	77	6F	62	6A	65	63	74	20	63	61	6C	arknewobject cal
000CEDE0	6C	65	64	20	77	68	69	6C	65	20	64	6F	69	6E	67	20	led while doing
000CEDF0	63	68	65	63	6B	6D	61	72	6B	6F	75	74	20	6F	66	20	checkmarkout of
000CEE00	6D	65	6D	6F	72	79	20	61	6C	6C	6F	63	61	74	69	6E	memory allocatin
000CEE10	67	20	68	65	61	70	20	61	72	65	6E	61	20	6D	65	74	g heap arena met
000CEE20	61	64	61	74	61	72	65	66	6C	65	63	74	3A	20	66	75	adatareflect: fu
000CEE30	6E	63	4C	61	79	6F	75	74	20	77	69	74	68	20	69	6E	ncLayout with in
000CEE40	74	65	72	66	61	63	65	20	72	65	63	65	69	76	65	72	terface receiver
000CEE50	20	72	75	6E	74	69	6D	65	3A	20	6C	66	73	74	61	63	runtime: listac
000CEE60	69	6E	65	20	63	68	61	72	61	63	74	65	72	67	63	6D	k.push invalid p
000CEE70	61	63	6B	69	6E	67	3A	20	6E	6F	64	65	3D	43	6F	6E	acking. node-con
000CEE80	67	72	61	74	75	6C	61	74	69	6F	6E	20	74	68	65	20	gratulation the
000CEE90	66	6C	61	67	20	79	6F	75	20	69	6E	70	75	74	20	69	flag you input i
000CEEA0	73	20	63	6F	72	72	65	63	74	21	63	61	6E	6E	6F	74	s correct!cannot
000CEEB0	20	72	65	6E	64	20	61	66	74	65	72	20	74	72	61	6E	send after can
000CEEC0	73	70	6F	72	74	20	68	6E	61	70	6F	6E	74	20	73		sport endpoint s
000CEED0	68	75	74	64	6F	77	6E	65	78	69	74	73	79	73	63	61	utdownexitsysca
000CEE00	6C	6C	3A	20	73	79	73	63	61	6C	6C	20	66	72	61	6D	ll: syscall fram
000CEE10	65	20	69	73	20	6E	6F	20	6C	6F	6E	67	65	72	20	76	e is no longer v
000CEE20	61	6C	69	64	68	65	61	70	42	69	74	73	53	65	74	54	alidheapBitsSetT

<https://blog.csdn.net/YenKoc>

找到了输入正确flag的提示信息。

```

.rodata:00000000004CEE7A unk_4CEE7A db 43h ; C ; DATA XREF: .rodata:off_4E1140+
.rodata:00000000004CEE7D unk_4CEE7D db 6Fh ; o
.rodata:00000000004CEE7E db 6Eh ; n
.rodata:00000000004CEE7F db 6Eh ; n
.rodata:00000000004CEE80 db 67h ; g
.rodata:00000000004CEE81 db 72h ; r
.rodata:00000000004CEE82 db 61h ; a
.rodata:00000000004CEE83 db 74h ; t
.rodata:00000000004CEE84 db 75h ; u
.rodata:00000000004CEE85 db 6Ch ; l
.rodata:00000000004CEE86 db 61h ; a
.rodata:00000000004CEE87 db 74h ; t
.rodata:00000000004CEE88 db 69h ; i
.rodata:00000000004CEE89 db 6Fh ; o
.rodata:00000000004CEE8A db 6Eh ; n
.rodata:00000000004CEE8B db 20h
.rodata:00000000004CEE8C db 74h ; t
.rodata:00000000004CEE8D db 68h ; h
.rodata:00000000004CEE8E db 65h ; e
.rodata:00000000004CEE8F db 20h
.rodata:00000000004CEE90 db 66h ; f
.rodata:00000000004CEE91 db 6Ch ; l
.rodata:00000000004CEE92 db 61h ; a
.rodata:00000000004CEE93 db 67h ; g
.rodata:00000000004CEE94 db 20h
.rodata:00000000004CEE95 db 79h ; y
.rodata:00000000004CEE96 db 6Fh ; o
.rodata:00000000004CEE97 db 75h ; u
.rodata:00000000004CEE98 db 20h
.rodata:00000000004CEE99 db 69h ; i
.rodata:00000000004CEE9A db 6Eh ; n
.rodata:00000000004CEE9B db 70h ; p
.rodata:00000000004CEE9C db 75h ; u
.rodata:00000000004CEE9D db 74h ; t
.rodata:00000000004CEE9E db 20h
.rodata:00000000004CEE9F db 69h ; i
.rodata:00000000004CEEA0 db 73h ; s
.rodata:00000000004CEEA1 db 20h
.rodata:00000000004CEEA2 db 63h ; c
.rodata:00000000004CEEA3 db 6Fh ; o
.rodata:00000000004CEEA4 db 72h ; r
.rodata:00000000004CEEA5 db 72h ; r
.rodata:00000000004CEEA6 db 65h ; e
.rodata:00000000004CEEA7 db 63h ; c
.rodata:00000000004CEEA8 db 74h ; t
.rodata:00000000004CEEA9 db 21h ; !
.rodata:00000000004CEEA0 db 63h ; c

```

<https://blog.csdn.net/YenKoc>

再查看它的引用，进一步找到关键函数

```

000495304 test rcx, rcx
000495307 jnz loc_49541B
00049530D
00049530D loc_49530D: ; CODE XREF: main_main+36A↓j
00049530D mov rax, [rsp+100h+var_60]
000495315 mov rcx, [rax]
000495318 cmp [rax+8], rbx
00049531C jz short loc_495393
00049531E
00049531E loc_49531E: ; CODE XREF: main_main+25B↓j

```

```

00049531E xorps xmm0, xmm0
000495321 movups [rsp+100h+var_58], xmm0
000495329 lea rax, unk_4A6D00
000495330 mov qword ptr [rsp+100h+var_58], rax
000495338 lea rax, off_4E1150
00049533F mov qword ptr [rsp+100h+var_58+8], rax
000495347 nop
000495348 mov rax, cs:qword_572B18
00049534F lea rcx, off_4E28A0
000495356 mov [rsp+100h+var_100], rcx
00049535A mov [rsp+100h+var_F8], rax
00049535F lea rax, [rsp+100h+var_58]
000495367 mov [rsp+100h+var_F0], rax
00049536C mov [rsp+100h+var_E8], 1
000495375 mov [rsp+100h+var_E0], 1
00049537E call fmt_Fprintln
000495383
000495383 loc_495383: ; CODE XREF: main_main+2C64j
000495383 mov rbp, [rsp+100h+var_8]
000495388 add rsp, 100h
000495392 retn
000495393 ; -----
000495393 loc_495393: ; CODE XREF: main_main+1CC4j
000495393 mov [rsp+100h+var_100], rdx
000495397 mov [rsp+100h+var_F8], rcx
00049539C mov [rsp+100h+var_F0], rbx
0004953A1 call runtime_memequal
0004953A6 cmp byte ptr [rsp+100h+var_E8], 0

```

<https://blog.csdn.net/YenKoc>

那个是正确的跳转，下面这个肯定就是错误时的跳转了

```

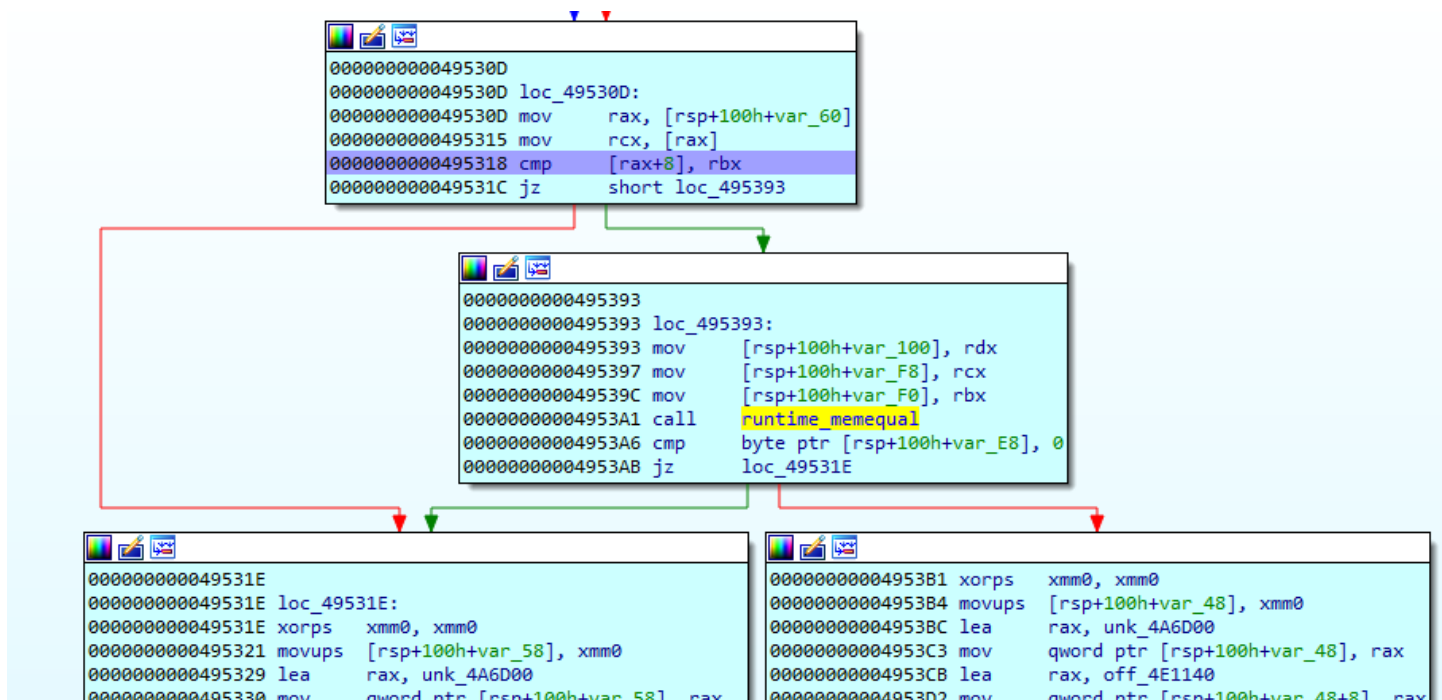
000049531E loc_49531E: ; CODE XREF: main_main+25B4j
000049531E xorps xmm0, xmm0
0000495321 movups [rsp+100h+var_58], xmm0
0000495329 lea rax, unk_4A6D00
0000495330 mov qword ptr [rsp+100h+var_58], rax
0000495338 lea rax, off_4E1150
000049533F mov qword ptr [rsp+100h+var_58+8], rax
0000495347 nop
0000495348 mov rax, cs:qword_572B18
000049534F lea rcx, off_4E28A0
0000495356 mov [rsp+100h+var_100], rcx
000049535A mov [rsp+100h+var_F8], rax
000049535F lea rax, [rsp+100h+var_58]
0000495367 mov [rsp+100h+var_F0], rax
000049536C mov [rsp+100h+var_E8], 1
0000495375 mov [rsp+100h+var_E0], 1
000049537E call fmt_Fprintln
0000495383

```



<https://blog.csdn.net/YenKoc>

动调，到那个cmp那边，看看，估计是判断长度，再进一步比较



```
000000000495338 lea rax, off_4E1150
00000000049533F mov qword ptr [rsp+100h+var_58+8], rax
000000000495347 nop
000000000495348 mov rax, cs:qword_572B18
00000000049534F lea rcx, off_4E28A0
0000000004953DA nop
0000000004953DB mov rax, cs:qword_572B18
0000000004953E2 lea rcx, off_4E28A0
0000000004953E9 mov [rsp+100h+var_100], rcx
0000000004953ED mov [rsp+100h+var_F8], rax
```

在寄存器那里看到了flag，讲道理ida和gdb，各有千秋，gdb，很直观看到flag的。

```
debug002:000000C0000140BE db 0Ah
debug002:000000C0000140BF db 0
debug002:000000C0000140C0 db 66h ; f
debug002:000000C0000140C1 db 6Ch ; l
debug002:000000C0000140C2 db 61h ; a
debug002:000000C0000140C3 db 67h ; g
debug002:000000C0000140C4 db 7Bh ; {
debug002:000000C0000140C5 db 39h ; 9
debug002:000000C0000140C6 db 32h ; 2
debug002:000000C0000140C7 db 30h ; 0
debug002:000000C0000140C8 db 39h ; 9
debug002:000000C0000140C9 db 34h ; 4
debug002:000000C0000140CA db 64h ; d
debug002:000000C0000140CB db 61h ; a
debug002:000000C0000140CC db 66h ; f
debug002:000000C0000140CD db 2Dh ; -
debug002:000000C0000140CE db 33h ; 3
debug002:000000C0000140CF db 33h ; 3
debug002:000000C0000140D0 db 63h ; c
debug002:000000C0000140D1 db 39h ; 9
debug002:000000C0000140D2 db 2Dh ; -
debug002:000000C0000140D3 db 34h ; 4
debug002:000000C0000140D4 db 33h ; 3
debug002:000000C0000140D5 db 31h ; 1
debug002:000000C0000140D6 db 65h ; e
debug002:000000C0000140D7 db 2Dh ; -
debug002:000000C0000140D8 db 61h ; a
debug002:000000C0000140D9 db 38h ; 8
debug002:000000C0000140DA db 35h ; 5
debug002:000000C0000140DB db 61h ; a
debug002:000000C0000140DC db 2Dh ; -
debug002:000000C0000140DD db 38h ; 8
debug002:000000C0000140DE db 62h ; b
debug002:000000C0000140DF db 66h ; f
debug002:000000C0000140E0 db 62h ; b
```

<https://blog.csdn.net/YenKoc>