

BUUCTF_[ACTF新生赛2020]easyre 1

原创

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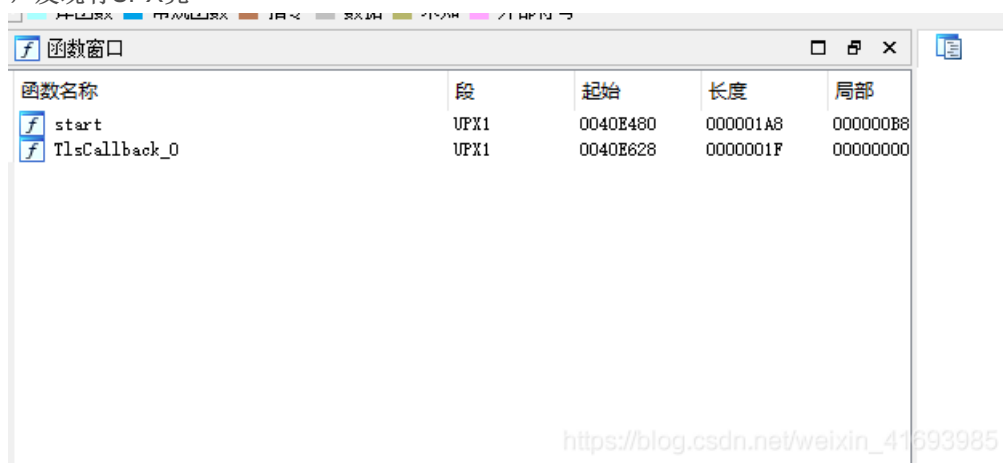


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2 篇文章 0 订阅

订阅专栏

拿到程序拖入ida中, 发现有UPX壳



所以脱壳然后再拖入ida进入主函数

```

int __cdecl main(int argc, const char **argv, const char **envp)
{
    char v4; // [esp+12h] [ebp-2Eh]
    char v5; // [esp+13h] [ebp-2Dh]
    char v6; // [esp+14h] [ebp-2Ch]
    char v7; // [esp+15h] [ebp-2Bh]
    char v8; // [esp+16h] [ebp-2Ah]
    char v9; // [esp+17h] [ebp-29h]
    char v10; // [esp+18h] [ebp-28h]
    char v11; // [esp+19h] [ebp-27h]
    char v12; // [esp+1Ah] [ebp-26h]
    char v13; // [esp+1Bh] [ebp-25h]
    char v14; // [esp+1Ch] [ebp-24h]
    char v15; // [esp+1Dh] [ebp-23h]
    int v16; // [esp+1Eh] [ebp-22h]
    int v17; // [esp+22h] [ebp-1Eh]
    int v18; // [esp+26h] [ebp-1Ah]
    __int16 v19; // [esp+2Ah] [ebp-16h]
    char v20; // [esp+2Ch] [ebp-14h]
    char v21; // [esp+2Dh] [ebp-13h]
    char v22; // [esp+2Eh] [ebp-12h]
    int v23; // [esp+2Fh] [ebp-11h]
    int v24; // [esp+33h] [ebp-Dh]
    int v25; // [esp+37h] [ebp-9h]
    char v26; // [esp+3Bh] [ebp-5h]
    int i; // [esp+3Ch] [ebp-4h]

    __main();
    v4 = 42;
    v5 = 70;
    v6 = 39;
    v7 = 34;
    v8 = 78;
    v9 = 44;
    v10 = 34;
    v11 = 40;
    v12 = 73;
    v13 = 63;
    v14 = 43;
    v15 = 64;
    printf("Please input:");
    scanf("%s", &v19);
    if ( (_BYTE)v19 != 65 || HIBYTE(v19) != 67 || v20 != 84 || v21 != 70 || v22 != 123 || v26 != 125 )
        return 0;
    v16 = v23;
    v17 = v24;
    v18 = v25;
    for ( i = 0; i <= 11; ++i )
    {
        if ( *(&v4 + i) != _data_start__[*((char *)&v16 + i) - 1] )
            return 0;
    }
    printf("You are correct!");
    return 0;
}

```

其中for循环是关键函数，其中意思是在_data_start__函数中找到v4—>v15的字符

```
.data:00402000 __data_start__ db 7Eh ; DATA XREF: _main+EC↑r
.data:00402001 aZyxwvutsrqponm db '|{zyxwvutsrqponmlkjihgfedcba`_^}\[ZYXWVUTSRQPONMLKJIHGFEDCBA@?>='
.data:00402001 db '<;:9876543210/.-,+*>('',27h,'&$$# !"',0
```

所以上脚本

```
v4 = [42,70,39,34,78,44,34,40,73,63,43,64]
#r: 防特殊字符转义
str = r'~}|{zyxwvutsrqponmlkjihgfedcba`_^}\[ZYXWVUTSRQPONMLKJIHGFEDCBA@?>=<;:9876543210/.-,+*>(''+chr(0x27)+r'&$$# !"'
s=[]
flag1 = ''
for i in v4:
    print(i)
    s.append(str.find(chr(i))+1)
for i in s:
    flag1 += chr(i)
print(flag1)
```

最后输出得到flag