

一个base64自定义字符表加密

然后这个函数

动调发现base64函数后的打印字符串隐藏着一个函数

```
; Attributes: bp-based frame

sub_400747 proc near
; __unwind {
push    rbp
mov     rbp, rsp
mov     edi, offset aTheEncryptionI ; "The encryption is done!"
call    _puts
mov     rsp, offset off_603110
retn
sub_400747 endp
```

```
Instruction  Data  Unexplored  External symbol
IDA View-A  Pseudocode-A  Hex View-1  Structures
Se  1 size_t sub_400686()
.  2 {
.  3     size_t result; // rax
.  4     int i; // [rsp+Ch] [rbp-14h]
.  5
.  6     for ( i = 0; ; ++i )
.  7     {
.  8         result = strlen(s);
.  9         if ( i >= result )
. 10             break;
. 11         if ( s[i] > 96 && s[i] <= 121 || s[i] > 64 && s[i] <= 89 )
. 12         {
. 13             s[i] ^= 0x20u;
. 14             ++s[i];
. 15         }
. 16     }
. 17     return result;
. 18 }
```

之后是一个crc8的加密，之后与存在的数组比较



```

39         if (eninput[i] >= 'A' && eninput[i] <= 'Z')
40         {
41             eninput[i] = ((eninput[i] ^ 32) - 'a' - 5+260) % 26 + 'a';
42         }
43         else
44             eninput[i] = eninput[i];
45     }
46 }
47 }
48 int main(void)
49 {
50     crc8decode(data);    //crc8解密
51     puts(data);
52     change(data);        //隐藏变换解密
53     puts(data);
54     return 0;
55 }
56
57 /*
58 输出
59
60 eRCme3YJrK95rKakx24Ci19KgRsDbcF3fb9Zkv==
61 ZmxHZ3teMf95MfVFS24xD19fBmNyWxa3AW9uFQ==
62
63 */
64

```

base64解密

```

1  import base64
2 enstr = "ZmxHZ3teMf95MfVFS24xD19fBmNyWxa3AW9uFQ=="
3  biao2 =
    str.maketrans("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/", "abcdefghijklmnopqrstuvwxyz0123456789+/")
4  str_decode = base64.b64decode(enstr.translate(biao2).encode('utf-8'))
5  print(str(str_decode,'utf-8'))
6
7  #输出
8  # flag{D0_y0U_Kn1w_EncrYp7ion}

```