

## Alien\_bin

**Link:** <https://crackmes.one/crackme/5d78168833c5d46f00e2c428>

**Description:** In the ruins of an ancient alien civilization a micro sd card was found with this binary inside. It's asking us to feed it a password, but we don't know where to get it from! We've tried all of our birthdays right way and backwards here at the lab, but nothing seems to work :( Maybe we missed something.

```
$ file alien_bin
```

```
alien_bin: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked,  
interpreter /lib64/ld-linux-x86-64.so.2,
```

```
BuildID[sha1]=51cd70ffbfd95a93eaf9d83e1f76c6274ef9c1b, for GNU/Linux 3.2.0, not stripped
```

```
$ strings alien_bin
```

```
/lib64/ld-linux-x86-64.so.2
```

```
libc.so.6
```

```
__isoc99_scanf
```

```
puts
```

```
printf
```

```
malloc
```

```
strcmp
```

```
Feed me the right password:
```

```
ERROR
```

```
9df1342d5620cc8afaf8e7ee77a046aa2db9bd2b29b5c6c5676b373366de7107  
5044e3c0d9d92c0b88383d750c01f4906011f1f6050ec32204f7a35479ca0a90  
f293759bf385de6672943db2c84f4e4a071d183e4c330683b0b858bace99d214  
96c6a782bb86d70cbdaadd0c5a91b52afe10d496f37092eb2d055467752cd41b  
cafcd925262762f833b3eb7254c5732e1c8dd43eae8340ce8d58b0bd70d8a33f  
181bdc9b45ccd6daad67ef8b91d8c83ec815ef36eebc57789004e1c2d4f74ef6
```

```
[....]
```

```
[....]
```

```
r2 -d alien_bin
```

<b>0x55c296b97279</b>	<b>e8e2fdffff</b>	<b>call sym.imp strcmp</b>
0x55c296b9727e	85c0	test eax, eax
└─< 0x55c296b97280	750c	jne 0x55c296b9728e
0x55c296b97282	b800000000	mov eax, 0
0x55c296b97287	e829000000	call sym.bd23cf3f56baa86bc ;[5]
─< 0x55c296b9728c	eb0c	jmp 0x55c296b9729a

```

| ; CODE XREF from main @ 0x55c296b97280
| ↳ 0x55c296b9728e 488d3d990d00. lea rdi, str.ERROR ; 0x55c296b9802e ;
"ERROR"
| 0x55c296b97295 e896fdffff call sym.imp.puts ;[6] ; int puts(const char *s
[0x55c296b971ad]> db 0x55c296b97279
[0x55c296b97279]> drr
role reg      value      refstr
-----
R0  rax      55c2981f62a0 rax,rdi aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
    rbx      0          0
A3  rcx      10          16 rcx
A2  rdx      55c2981f6b00 rdx,r8,rsi bd23cf3f56baa86bc
A4  r8       55c2981f6b00 rdx,r8,rsi bd23cf3f56baa86bc
A5  r9       7f44ce338be0 r9
    r10      6e          110 r10 ascii ('n')
    r11      40          64 r11 ascii ('@')

```

The string bd23cf3f56baa86bc passed into the function strcmp

\$ ./alien\_bin

Feed me the right password: bd23cf3f56baa86bc

blip blip :)