脱壳小记

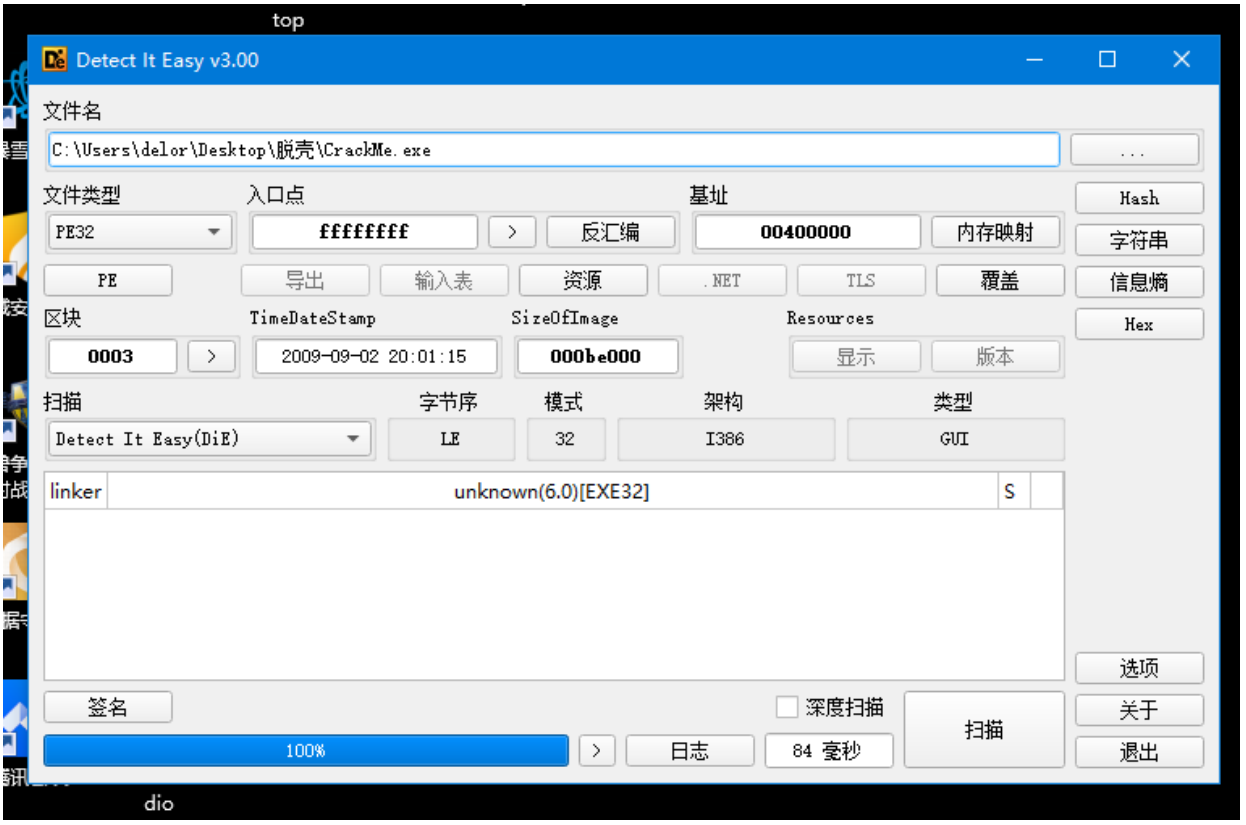
原题目链接：https://bbs.pediy.com/thread-97892.htm

原分析链接：https://bbs.pediy.com/thread-101765.htm

本文作者：Delort

本文是纯粹的脱壳，无算法分析的内容。

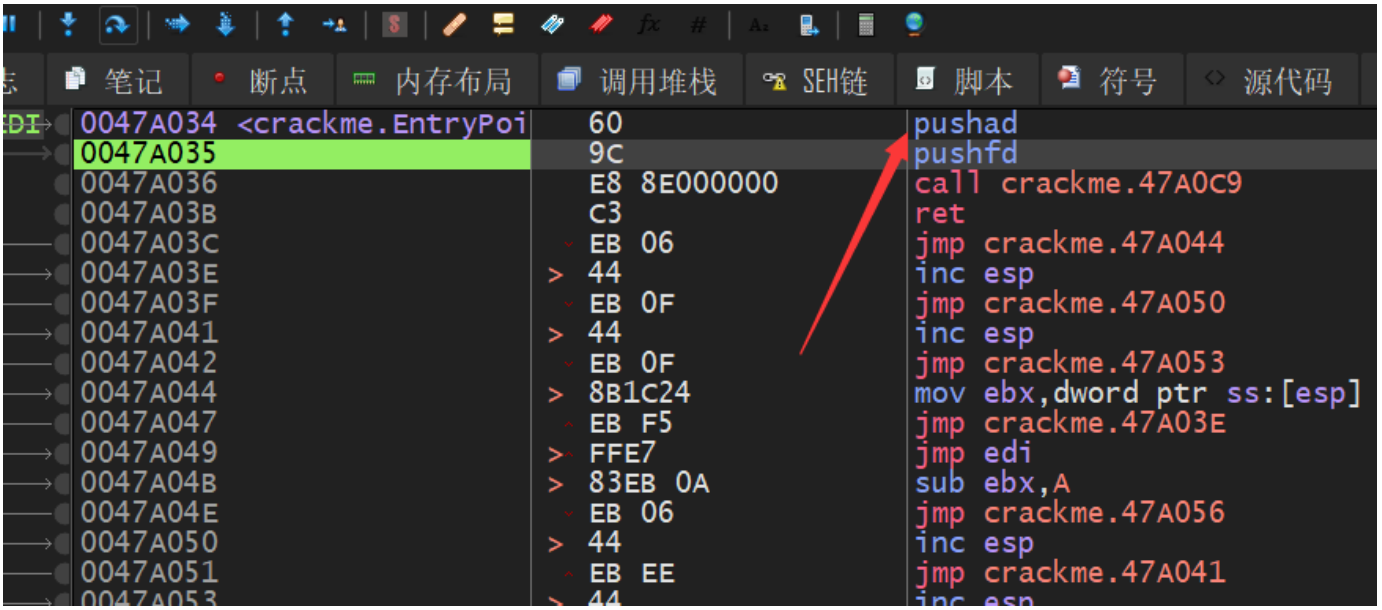
1.查壳



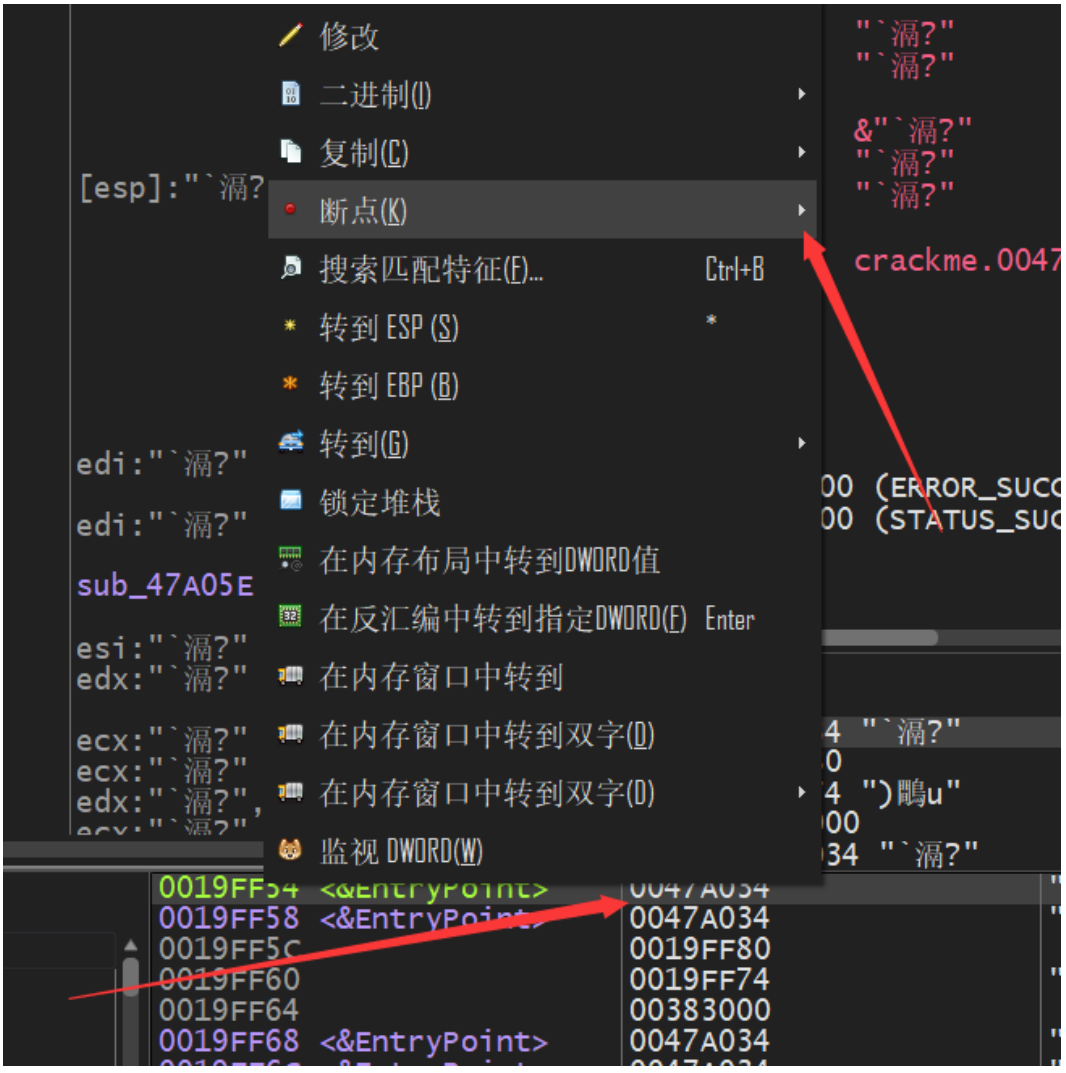
没有查到。

2.寻找oep

单步步过pushad

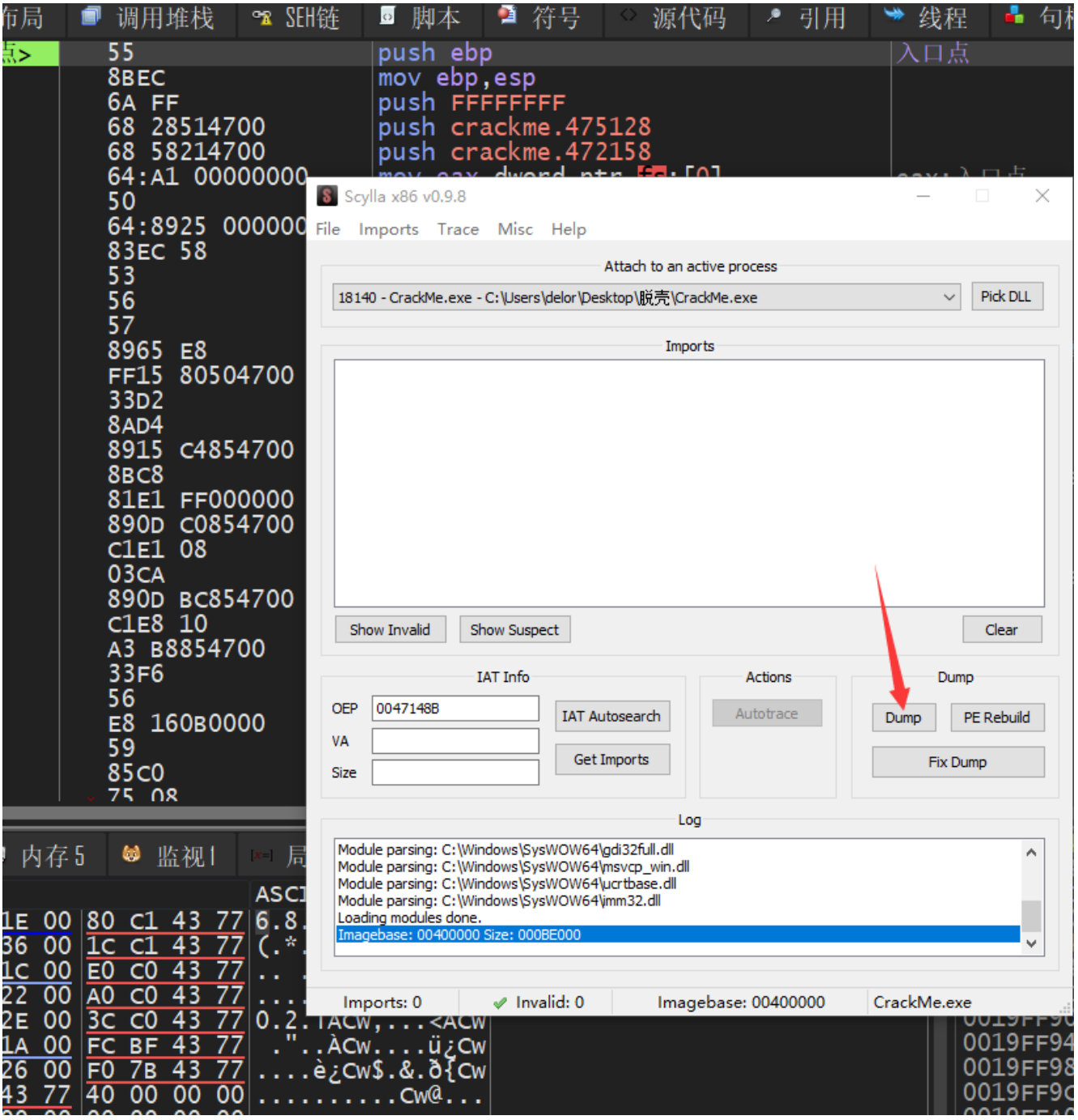


在此处esp处下硬件访问断点。



单步步过到此处为oep

然后打开Scylla进行dump操作

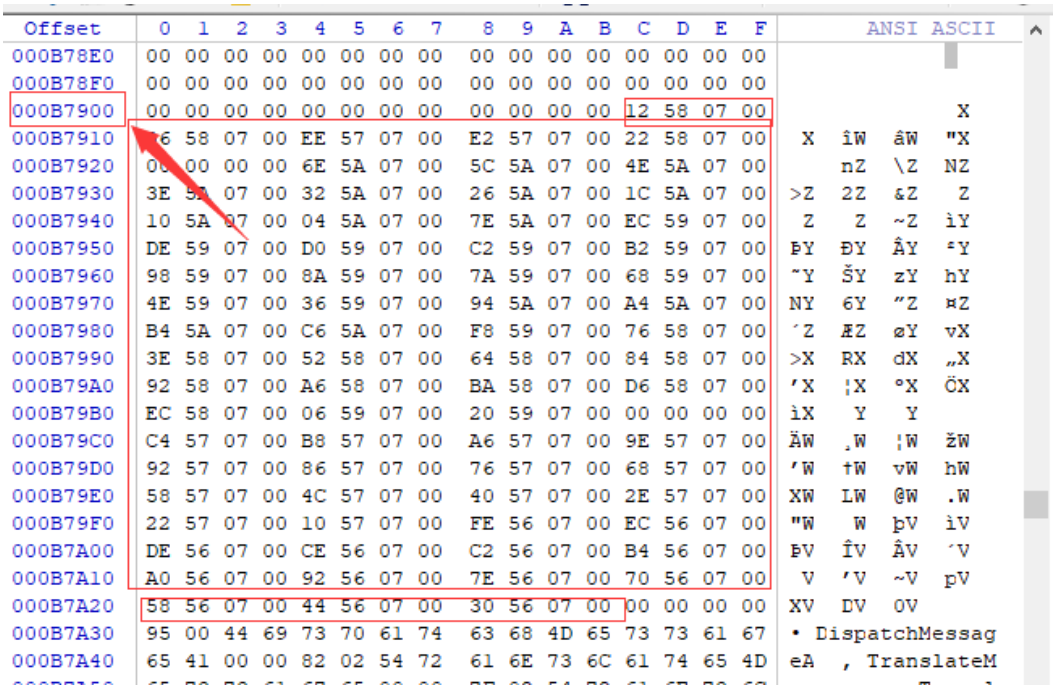


3.手动重建导入表和IAT

3.1复制INT到IAT

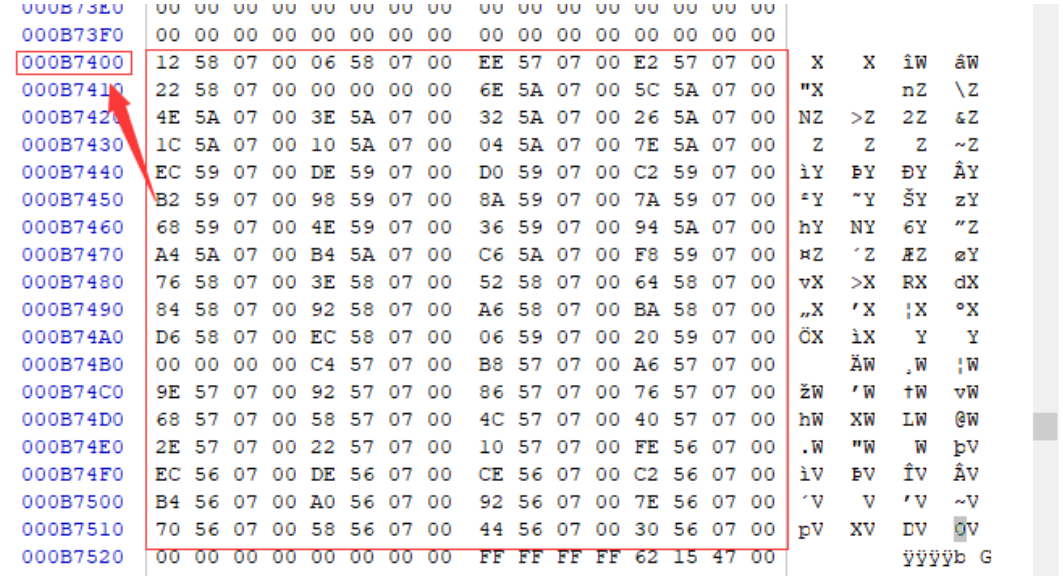
此步骤其实可忽略，只需新建import table 并在数据目录填入RVA即可。

INT：



Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	ANSI ASCII
000B78E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000B78F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000B7900	00	00	00	00	00	00	00	00	00	00	00	00	12	58	07	00	X
000B7910	16	58	07	00	EE	57	07	00	E2	57	07	00	22	58	07	00	X îW âW "X
000B7920	00	00	00	00	6E	5A	07	00	5C	5A	07	00	4E	5A	07	00	nZ \Z NZ
000B7930	3E	5A	07	00	32	5A	07	00	26	5A	07	00	1C	5A	07	00	>Z 2Z &Z Z
000B7940	10	5A	07	00	04	5A	07	00	7E	5A	07	00	EC	59	07	00	Z Z ~Z ìY
000B7950	DE	59	07	00	D0	59	07	00	C2	59	07	00	B2	59	07	00	ÞY ÐY ÂY ²Y
000B7960	98	59	07	00	8A	59	07	00	7A	59	07	00	68	59	07	00	˜Y ŠY zY hY
000B7970	4E	59	07	00	36	59	07	00	94	5A	07	00	A4	5A	07	00	NY 6Y ”Z ¤Z
000B7980	B4	5A	07	00	C6	5A	07	00	F8	59	07	00	76	58	07	00	´Z ÆZ øY vX
000B7990	3E	58	07	00	52	58	07	00	64	58	07	00	84	58	07	00	>X RX dX „X
000B79A0	92	58	07	00	A6	58	07	00	BA	58	07	00	D6	58	07	00	’X ¦X °X ÖX
000B79B0	EC	58	07	00	06	59	07	00	20	59	07	00	00	00	00	00	ìX Y Y
000B79C0	C4	57	07	00	B8	57	07	00	A6	57	07	00	9E	57	07	00	ÄW ¸W ¦W žW
000B79D0	92	57	07	00	86	57	07	00	76	57	07	00	68	57	07	00	’W †W vW hW
000B79E0	58	57	07	00	4C	57	07	00	40	57	07	00	2E	57	07	00	XW LW @W .W
000B79F0	22	57	07	00	10	57	07	00	FE	56	07	00	EC	56	07	00	"W W þV ìV
000B7A00	DE	56	07	00	CE	56	07	00	C2	56	07	00	B4	56	07	00	ÞV ÎV ÂV ´V
000B7A10	A0	56	07	00	92	56	07	00	7E	56	07	00	70	56	07	00	V ’V ~V pV
000B7A20	58	56	07	00	44	56	07	00	30	56	07	00	00	00	00	00	XV DV 0V
000B7A30	95	00	44	69	73	70	61	74	63	68	4D	65	73	73	61	67	• DispatchMessag
000B7A40	65	41	00	00	82	02	54	72	61	6E	73	6C	61	74	65	4D	eA , TranslateM

IAT：



000B73E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000B73F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000B7400	12	58	07	00	06	58	07	00	EE	57	07	00	E2	57	07	00	X X îW âW
000B7410	22	58	07	00	00	00	00	00	6E	5A	07	00	5C	5A	07	00	"X nZ \Z
000B7420	4E	5A	07	00	3E	5A	07	00	32	5A	07	00	26	5A	07	00	NZ >Z 2Z &Z
000B7430	1C	5A	07	00	10	5A	07	00	04	5A	07	00	7E	5A	07	00	Z Z Z ~Z
000B7440	EC	59	07	00	DE	59	07	00	D0	59	07	00	C2	59	07	00	ìY ÞY ÐY ÂY
000B7450	B2	59	07	00	98	59	07	00	8A	59	07	00	7A	59	07	00	²Y ˜Y ŠY zY
000B7460	68	59	07	00	4E	59	07	00	36	59	07	00	94	5A	07	00	hY NY 6Y ”Z
000B7470	A4	5A	07	00	B4	5A	07	00	C6	5A	07	00	F8	59	07	00	¤Z ´Z ÆZ øY
000B7480	76	58	07	00	3E	58	07	00	52	58	07	00	64	58	07	00	vX >X RX dX
000B7490	84	58	07	00	92	58	07	00	A6	58	07	00	BA	58	07	00	„X ’X ¦X °X
000B74A0	D6	58	07	00	EC	58	07	00	06	59	07	00	20	59	07	00	ÖX ìX Y Y
000B74B0	00	00	00	00	C4	57	07	00	B8	57	07	00	A6	57	07	00	ÄW ¸W ¦W
000B74C0	9E	57	07	00	92	57	07	00	86	57	07	00	76	57	07	00	žW ’W †W vW
000B74D0	68	57	07	00	58	57	07	00	4C	57	07	00	40	57	07	00	hW XW LW @W
000B74E0	2E	57	07	00	22	57	07	00	10	57	07	00	FE	56	07	00	.W "W W þV
000B74F0	EC	56	07	00	DE	56	07	00	CE	56	07	00	C2	56	07	00	ìV ÞV ÎV ÂV
000B7500	B4	56	07	00	A0	56	07	00	92	56	07	00	7E	56	07	00	´V V ’V ~V
000B7510	70	56	07	00	58	56	07	00	44	56	07	00	30	56	07	00	pV XV DV 0V
000B7520	00	00	00	00	00	00	00	00	FF	FF	FF	FF	62	15	47	00	ÿÿÿÿb G

3.2新建导入表

找一个空白地址填入信息，我此处找的是下图地址：

```
000B71B0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B71C0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B71D0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B71E0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B71F0  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B7200  CC CC CC CC CC CC CC CC  CC CC CC CC 34 58 07 00  ÌÌÌÌÌÌÌÌÌÌÌÌ4X
000B7210  00 50 07 00 CC CC CC CC  CC CC CC CC CC CC CC CC   P  ÌÌÌÌÌÌÌÌÌÌÌÌ
000B7220  D8 5A 07 00 18 50 07 00  CC CC CC CC CC CC CC CC  ØZ   P  ÌÌÌÌÌÌÌÌ
000B7230  CC CC CC CC D6 57 07 00  B4 50 07 00 00 00 00 00  ÌÌÌÌÖW  ´P
000B7240  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B7250  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B7260  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B7270  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
000B7280  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00
```

INT和IAT在文件中都是函数地址信息表，内容一致都指向函数编号和函数名。

举例：

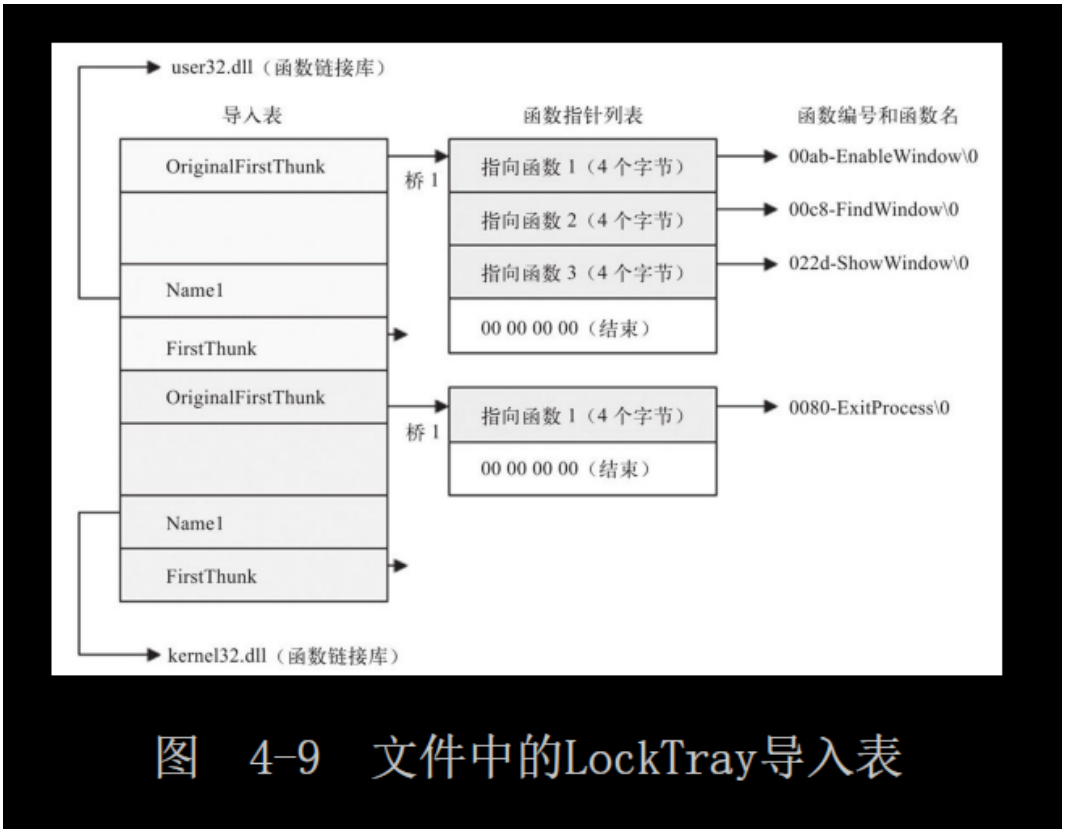


图　4-9　文件中的LockTray导入表

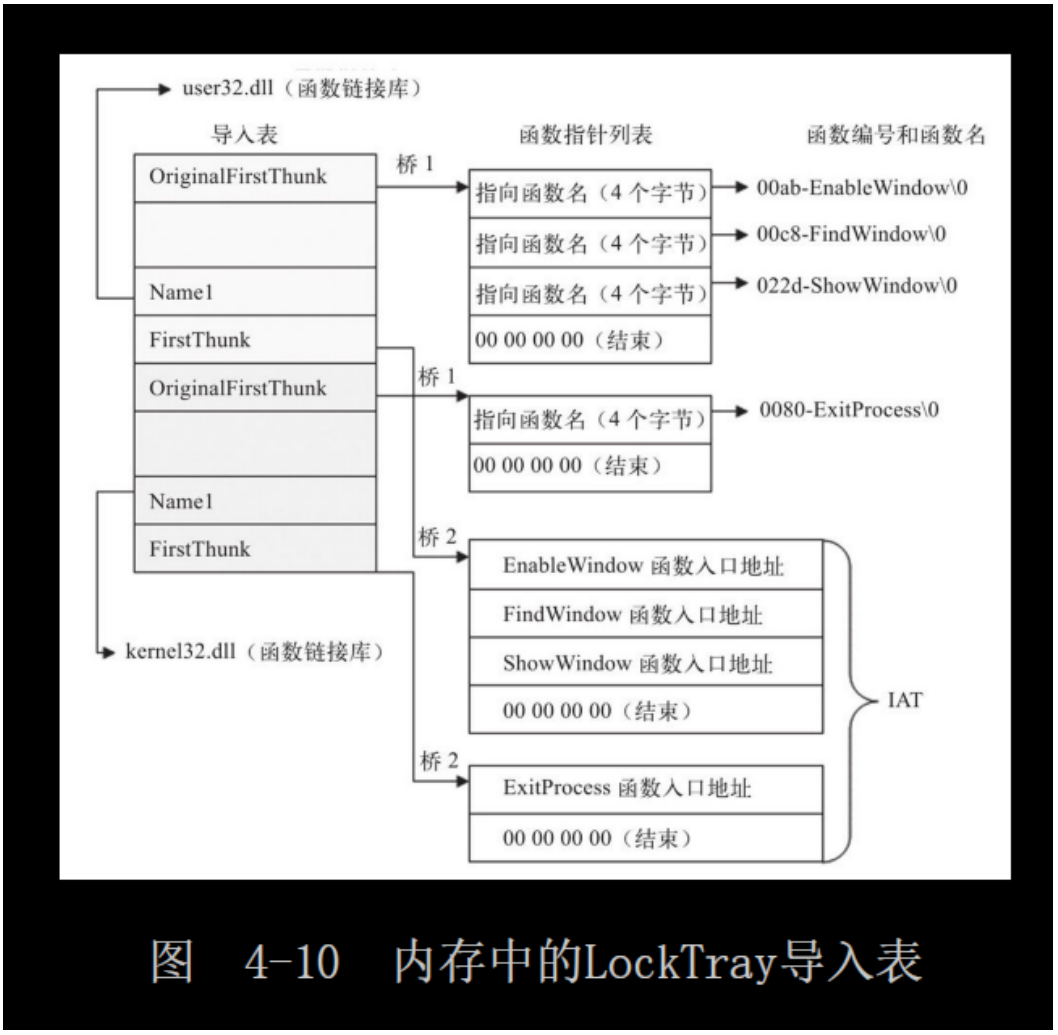


图 4-10 内存中的LockTray导入表

只不过IAT加载内存里，存的数值变成函数VA了。

3.3导入表数据结构-复习

由多个导入表描述符构成：

```
IMAGE_IMPORT_DESCRIPTOR STRUCT
    union
        Characteristics          dd   ?
        OriginalFirstThunk       dd   ? ; 0000h - 桥 1
    ends
    TimeDateStamp                dd   ? ; 0004h - 时间戳
    ForwarderChain               dd   ? ; 0008h - 链表的前一个结构
    Name1                        dd   ? ; 000ch - 指向链接库名字的指针
    FirstThunk                   dd   ? ; 0010h - 桥 2
IMAGE_IMPORT_DESCRIPTOR ENDS
```

结尾全0。

桥1或者桥2在文件中指向IMAGE_THUNK_DATA，该结构为：

```
IMAGE_THUNK_DATA STRUCT
union u1
ForwarderString dd ?
Function dd ?
Ordinal dd ?
AddressOfData dd ?
ends
IMAGE_THUNK_DATA ENDS
```

结束标志全0.

该结构又指向编号-函数名的结构。

```
IMAGE_IMPORT_BY_NAME STRUCT
Hint dw ? ;0000h-函数编号
Name1 db ? ;0004h-表示函数名的字符串
IMAGE_IMPORT_BY_NAME ENDS
```