手工获取模块相关信息

• 获取TEB的位置并获得TEB

• 拿到TIB和PEB的位置

● 查询PEB, 获得装载信息表 _PEB_LDR_DATA

```
• 装载信息表
  J:UUU> dt UX//U4dcaU _PEB_LDR_DAIA
atdl1!_PEB_LDR_DATA
+0x000 Tength : 0x30
+0x004 Initialized : 0x1 '
   装载模块双向环形链表
• 模块链表
 0:000>
                  Uncode串: 前四个字节分别以两个字节为单位表示占用空间和实际使用空间
         SizeOfImage
    // 所使用的Unicode串
    typedef struct _UNICODE_STRING {
      USHORT Length;
      USHORT MaximumLength;
      PWSTR Buffer;
    } UNICODE_STRING, *PUNICODE_STRING;
     +UXUZC Snutdowninreadid : (nuii)
  0:000> dd 0x1653bc0
  01653bc0 01653ab8 7704dcac 01653ac0 7704dcb4
  01653bd0 00000000 00000000 00f40000 00f513fc
  01653be0 00020000 005c005a 01652454 00180016
01653bf0 01652498 000022cc 0000ffff 7704db28
  01653c00
             7704db28 5e4f7722 00000000 00000000
             01653c80 01653c80 01653c80 012ff4a0
00000000 76f31294 00000000 00000000
  01653c10
01653c20
             U1654e21 U16543d4 U1654fd4 U1654U15
  J1653C3U
  D:000> du 01652454
D1652454 "E:\作业\三阶段\20200221\homework\Debu"
D1652494 "g\TlsTest.exe"
  D:000> du 01652498
```

"TlsTest.exe"

D1652498

```
DWORD GetLoadOrderModuleList()
{
    DWORD pointer = 0;
    __asm {
        push eax
        xor eax, eax
        mov eax, fs:[0x30] // 获取PEB
        // 获取装载信息表
        lea eax, [eax + 0x0c]
        mov eax, dword ptr [eax]
        // 获取模块链表
        lea eax, [eax + 0x0c]
        mov eax, dword ptr[eax]
        mov pointer, eax
        pop eax
    }
    return pointer;
}
HMODULE WINAPI MyGetModuleHandle(LPCTSTR lpModuleName)
{
    DWORD module_list = GetLoadOrderModuleList();
    ModuleItem *item = (ModuleItem *)module_list;
    while(item->pointer.Flink != (_LIST_ENTRY *)module_list) {
        // 遍历
        //printf("%1s\n", item->name.Buffer);
        DWORD length = wcslen(lpModuleName);
        if(length == wcslen(item->name.Buffer)) {
            bool found = true;
            for(DWORD i = 0; i < length; i++) {
                if(towupper(lpModuleName[i]) != towupper(item->name.Buffer[i]))
{
                    found = false;
                    break;
                }
            }
            if(found) {
                return (HMODULE)item->base;
            }
        }
        item = (ModuleItem *)item->pointer.Flink;
    return 0;
}
```

```
DWORD WINAPI MyGetModuleFileName(HMODULE hModule, LPTSTR lpFilename, DWORD
nSize)
{
    memset(lpFilename, 0, sizeof(TCHAR) * nSize);
    DWORD module_list = GetLoadOrderModuleList();
    ModuleItem *item = (ModuleItem *)module_list;
    while (item->pointer.Flink != (_LIST_ENTRY *)module_list) {
        // 遍历
        //printf("%1s\n", item->name.Buffer);
        if (hModule == (HMODULE)item->base) {
            int count = min(wcslen(item->path.Buffer), nSize);
            wcsncpy(lpFilename, item->path.Buffer, count);
            return count;
        }
        item = (ModuleItem *)item->pointer.Flink;
    }
    return 0;
}
DWORD WINAPI MyGetModuleBaseName(HMODULE hModule, LPTSTR lpFilename, DWORD
nSize)
{
    memset(lpFilename, 0, sizeof(TCHAR) * nSize);
    DWORD module_list = GetLoadOrderModuleList();
    ModuleItem *item = (ModuleItem *)module_list;
    while (item->pointer.Flink != (_LIST_ENTRY *)module_list) {
       // 遍历
        //printf("%ls\n", item->name.Buffer);
        if(hModule == (HMODULE)item->base) {
            int count = min(wcslen(item->name.Buffer), nSize);
            wcsncpy(lpFilename, item->name.Buffer, count);
            return count;
        }
        item = (ModuleItem *)item->pointer.Flink;
    }
    return 0;
}
```