



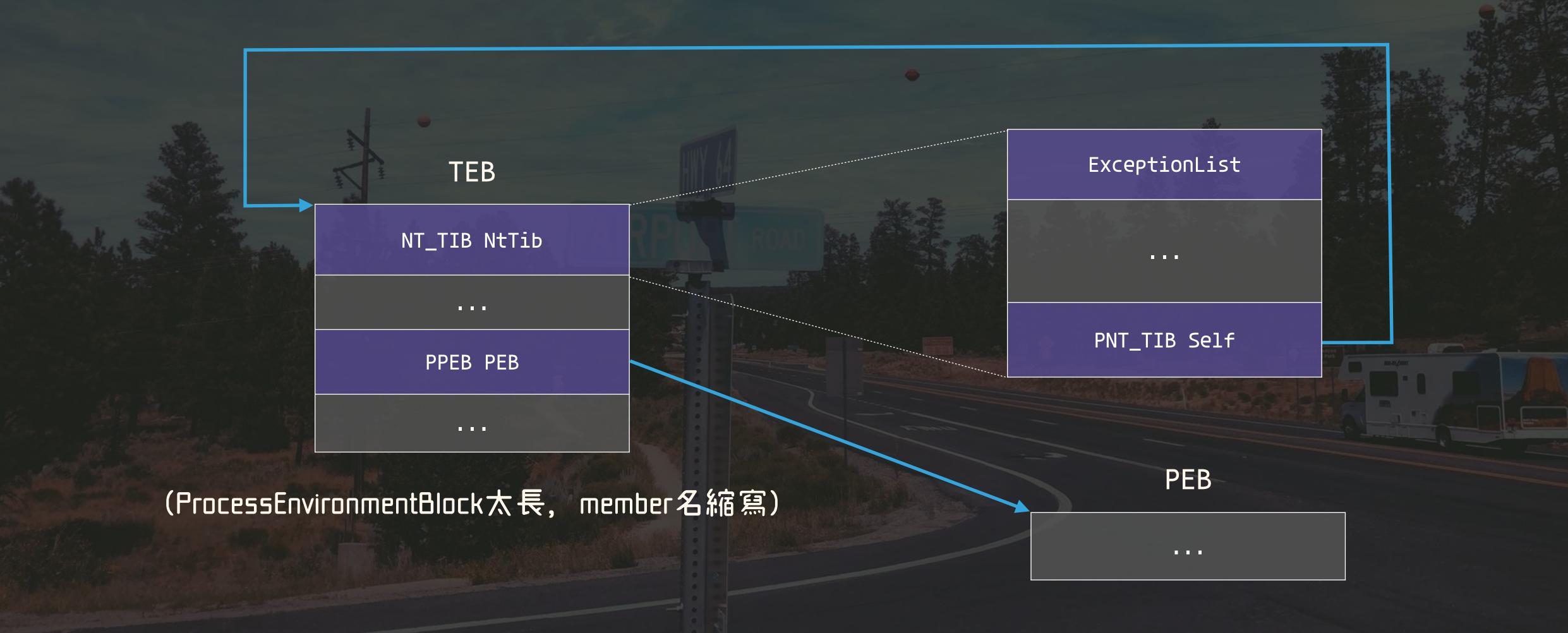
Anti-Analyze

- > 對抗分析的方法有許多,包含靜態及動態,基本上就是要增加逆向分析成本
- > 各個技巧可能看似簡單,但組合在一起非常崩潰
- > 相關技巧非常仰賴作業系統,不同作業系統下會有不同的方法,當然也是有通用的
- ▶ 這裡以 Windows 為例,因為 Windows 比較噁心

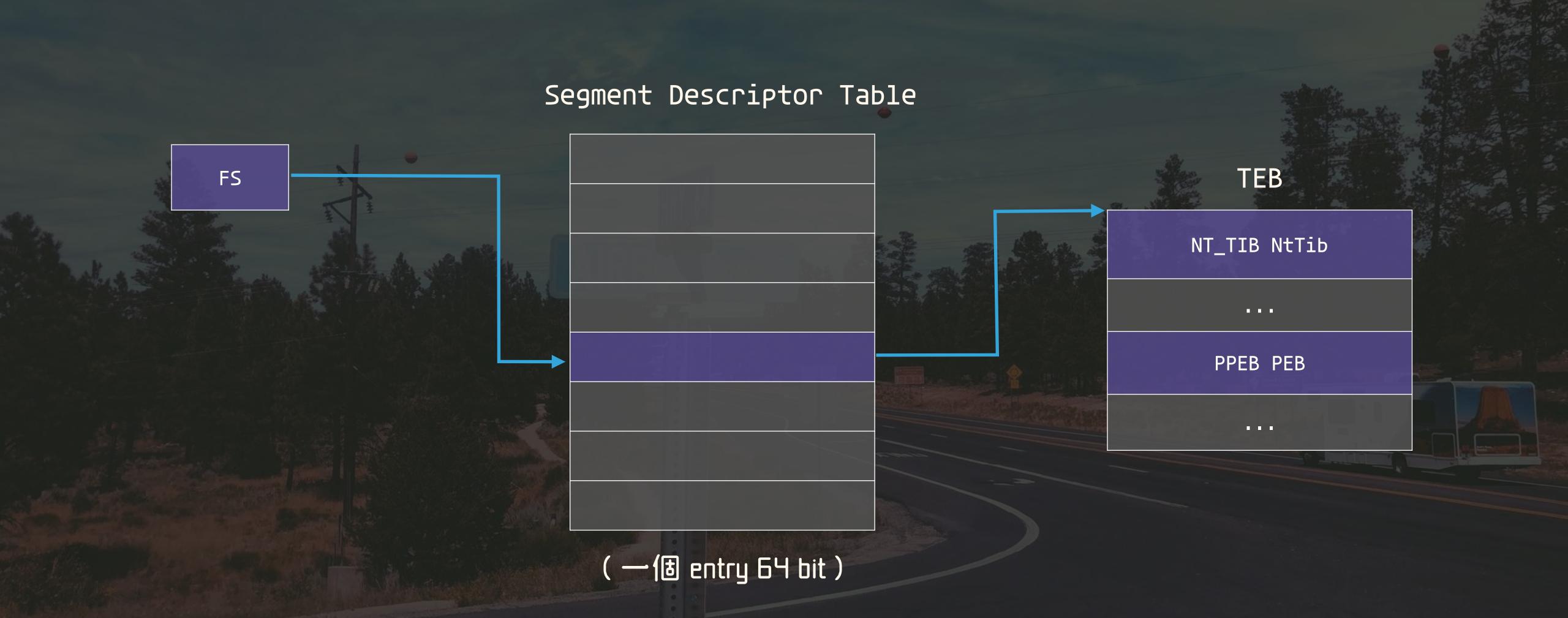
TEB(Thread Environment Block)

- > TEB 用來保存當前執行緒相關的資訊
-)可以透過其中的TIB以及PEB直接獲得某些資訊而不需要使用FIP
- 在 32bit 系統上可以透過 fs 存取
- 产在 64bit 系統上可以透過 gs 存取





How To Get TEB

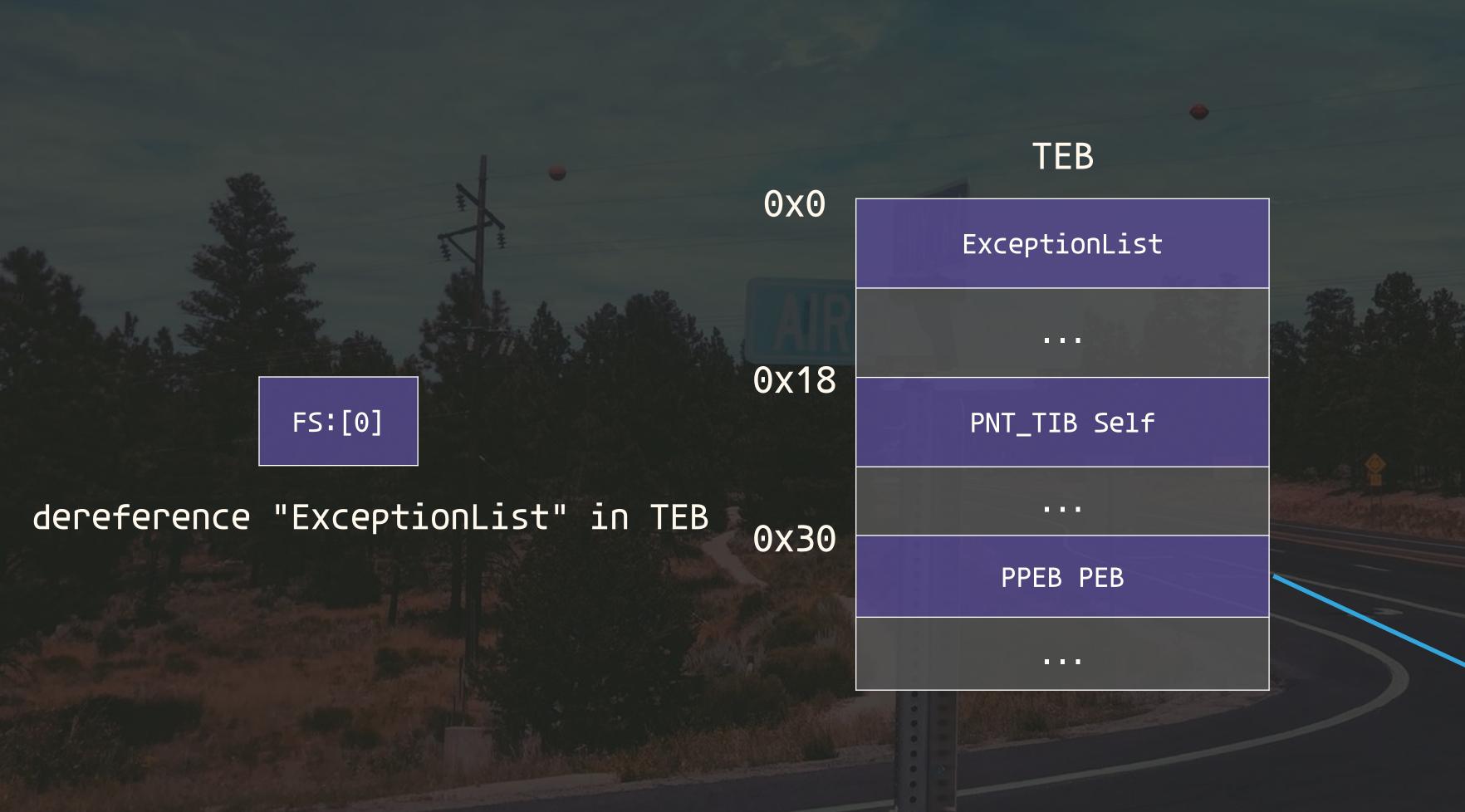




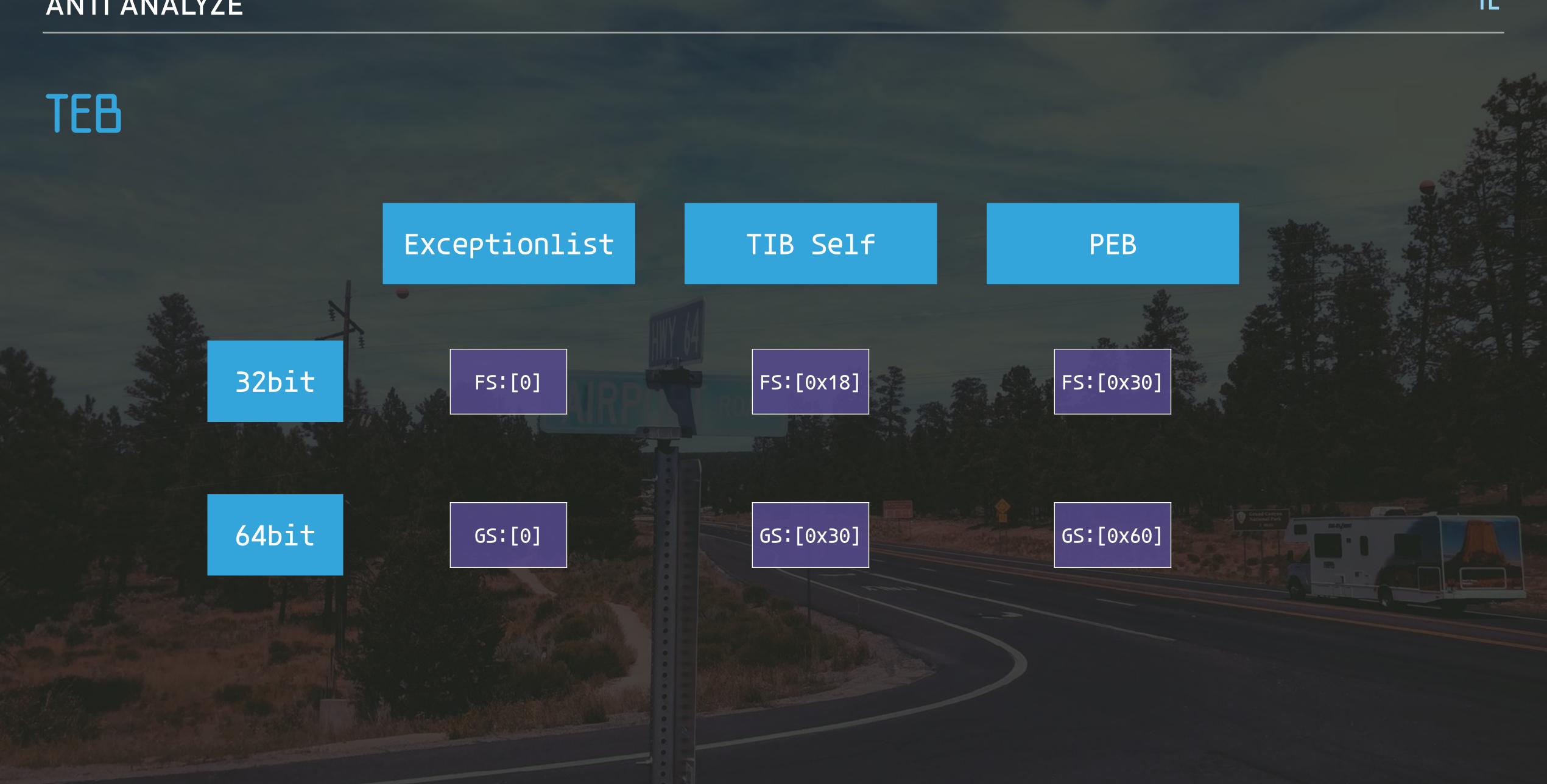
PEB



PEB



PEB





PEB (Process Environment Block, 32bit)

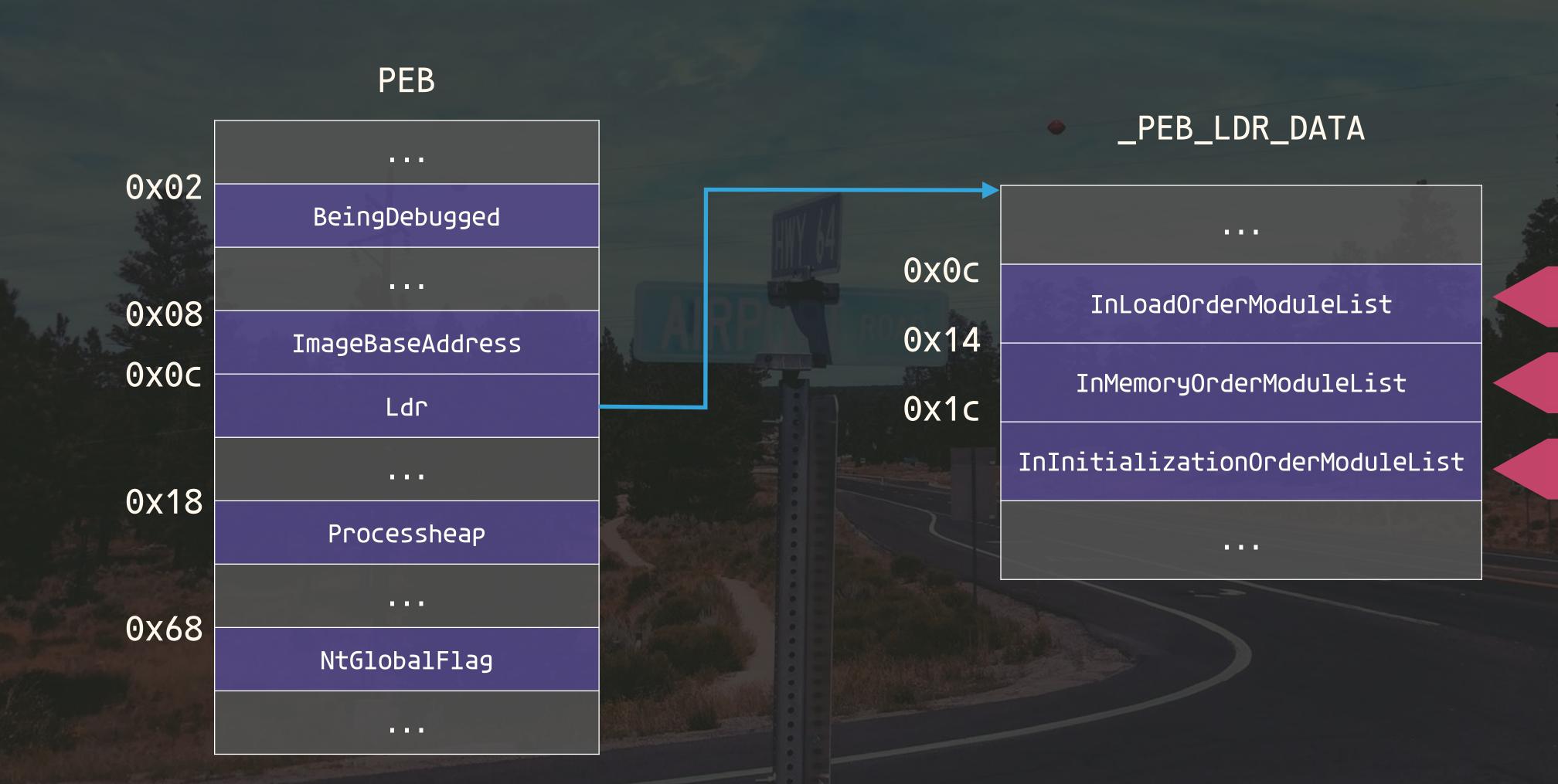


LIST_ENTRY

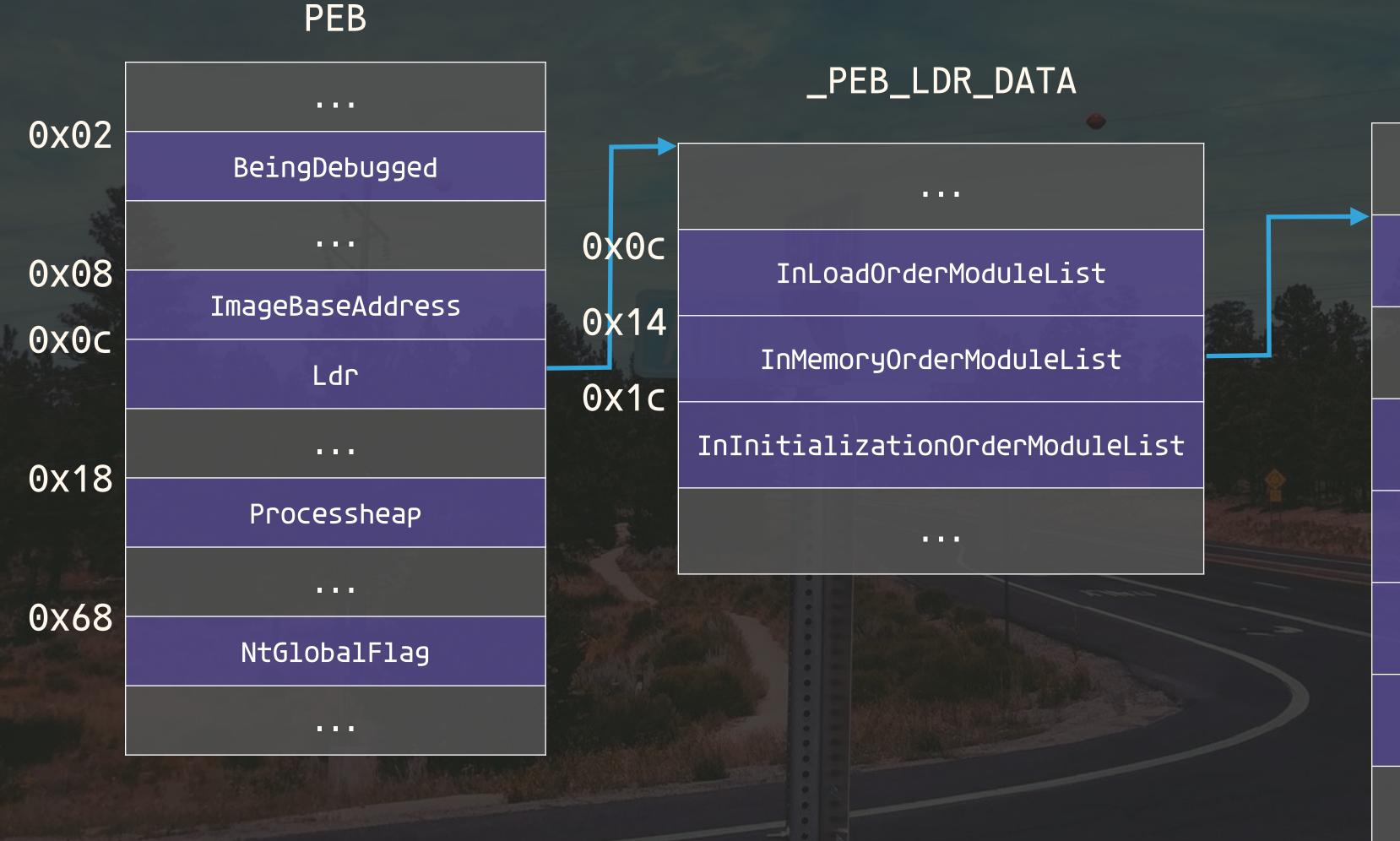
LIST_ENTRY

LIST_ENTRY

PEB (Process Environment Block, 32bit)



PEB (Process Environment Block, 32bit)



LDR_DATA_TABLE_ENTRY

PVOID Reserved1[2]

LIST_ENTRY InMemoryOrderLinks

PVOID Reserved2[2];

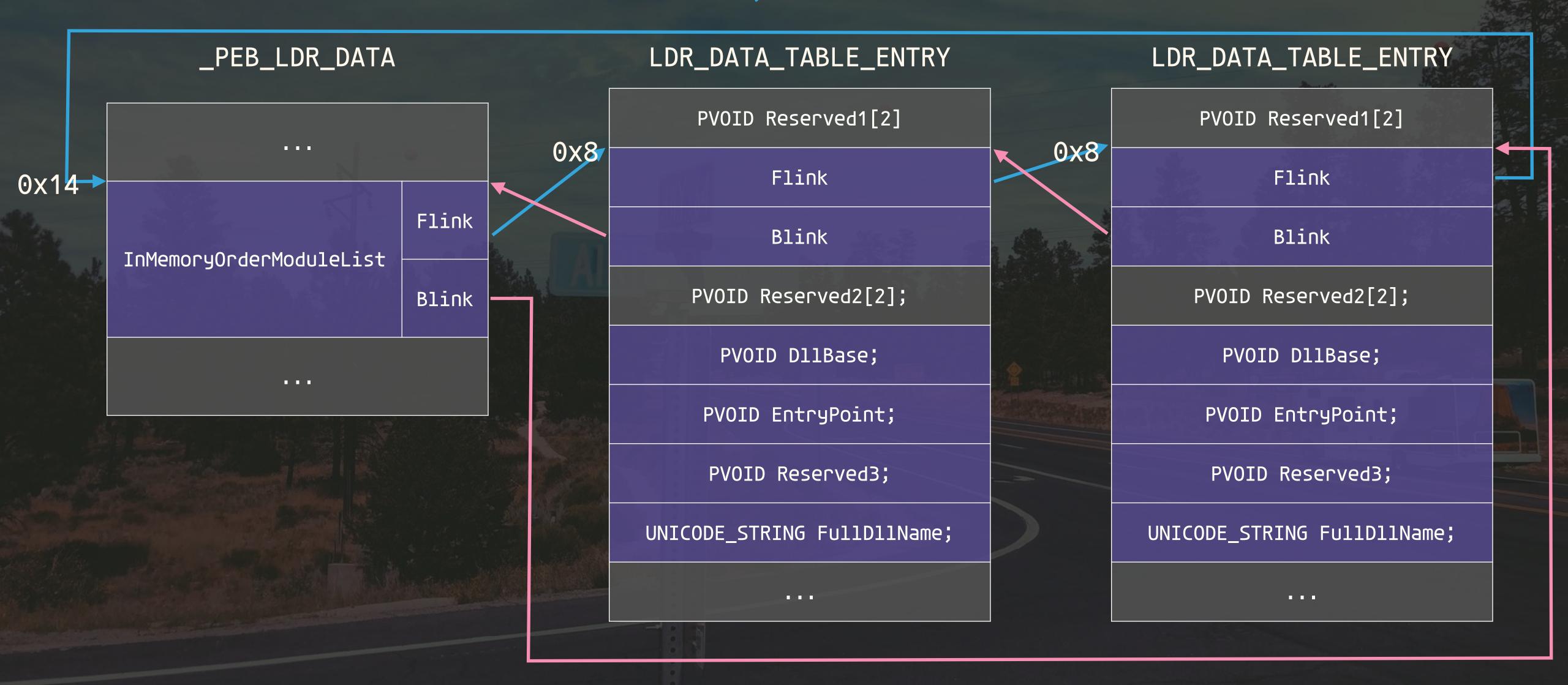
PVOID DllBase;

PVOID EntryPoint;

PVOID Reserved3;

UNICODE_STRING FullDllName;

PEB (Process Environment Block, 32bit)



Anti Analyze

- 大家都理解了 所以現在大家都煉銅
- 》煉銅不是不好, 但我們可以精進一下





Anti Analyze

- garbage code
- code alignment
- encryption\decryption
- reflactive binary
- api redirection
- polymorphic code
- debug blocker(self debugging, nanomite)

Anti-Analyze





Debugger Detection

- NtQueryInformationProcess()
- CheckRemoteDebuggerPresent()
- NtQueryInformationProcess()
- NtQuerySystemInformation()
- NtSetInformationThread()
- NtQueryObject()

Debugger Detection

- FindWindow()
- Parent Process Check()
- GetComputerName()
- GetCommandLine()



