struct \_PEB { 0x000 BYTE InheritedAddressSpace: **0x001** BYTE ReadImageFileExecOptions; 0x002 BYTE BeingDebugged; 0x003 BYTE SpareBool; 0x004 void\* Mutant; 0x008 void\* ImageBaseAddress; 0x00c PEB\_LDR\_DATA\* Ldr; 0x010 RTL USER PROCESS PARAMETERS\* ProcessParameters; 0x014 void\* SubSystemData; 0x018 void\* ProcessHeap; **0x01c** \_RTL\_CRITICAL\_SECTION\* FastPebLock; 0x020 void\* FastPebLockRoutine; **0x024** void\* FastPebUnlockRoutine; 0x028 DWORD EnvironmentUpdateCount; 0x02c void\* KernelCallbackTable; 0x030 DWORD SystemReserved[1]; 0x034 DWORD ExecuteOptions:2; // bit offset: 34, len=2 0x034 DWORD SpareBits:30; // bit offset: 34, len=30 0x038 \_PEB\_FREE\_BLOCK\* FreeList; 0x03c DWORD TIsExpansionCounter; 0x040 void\* TlsBitmap; 0x044 DWORD TIsBitmapBits[2]; **0x04c** void\* ReadOnlySharedMemoryBase; 0x050 void\* ReadOnlySharedMemoryHeap; 0x054 void\*\* ReadOnlyStaticServerData; 0x058 void\* AnsiCodePageData; 0x05c void\* OemCodePageData; 0x060 void\* UnicodeCaseTableData; 0x064 DWORD NumberOfProcessors; 0x068 DWORD NtGlobalFlag; **0x070** LARGE\_INTEGER CriticalSectionTimeout; 0x078 DWORD HeapSegmentReserve; 0x07c DWORD HeapSegmentCommit; **0x080** DWORD HeapDeCommitTotalFreeThreshold; 0x084 DWORD HeapDeCommitFreeBlockThreshold; 0x088 DWORD NumberOfHeaps; 0x08c DWORD MaximumNumberOfHeaps: 0x090 void\*\* ProcessHeaps; 0x094 void\* GdiSharedHandleTable; 0x098 void\* ProcessStarterHelper: 0x09c DWORD GdiDCAttributeList; 0x0a0 void\* LoaderLock; 0x0a4 DWORD OSMajorVersion; 0x0a8 DWORD OSMinorVersion; 0x0ac WORD OSBuildNumber; 0x0ae WORD OSCSDVersion; 0x0b0 DWORD OSPlatformId; 0x0b4 DWORD ImageSubsystem; 0x0b8 DWORD ImageSubsystemMajorVersion; **0x0bc** DWORD ImageSubsystemMinorVersion; 0x0c0 DWORD ImageProcessAffinityMask; 0x0c4 DWORD GdiHandleBuffer[34]; 0x14c void (\*PostProcessInitRoutine)(); 0x150 void\* TlsExpansionBitmap; 0x154 DWORD TIsExpansionBitmapBits[32]; 0x1d4 DWORD SessionId; 0x1d8 \_ULARGE\_INTEGER AppCompatFlags; 0x1e0 \_ULARGE\_INTEGER AppCompatFlagsUser; 0x1e8 void\* pShimData; 0x1ec void\* AppCompatInfo;

0x1f0 UNICODE STRING CSDVersion;

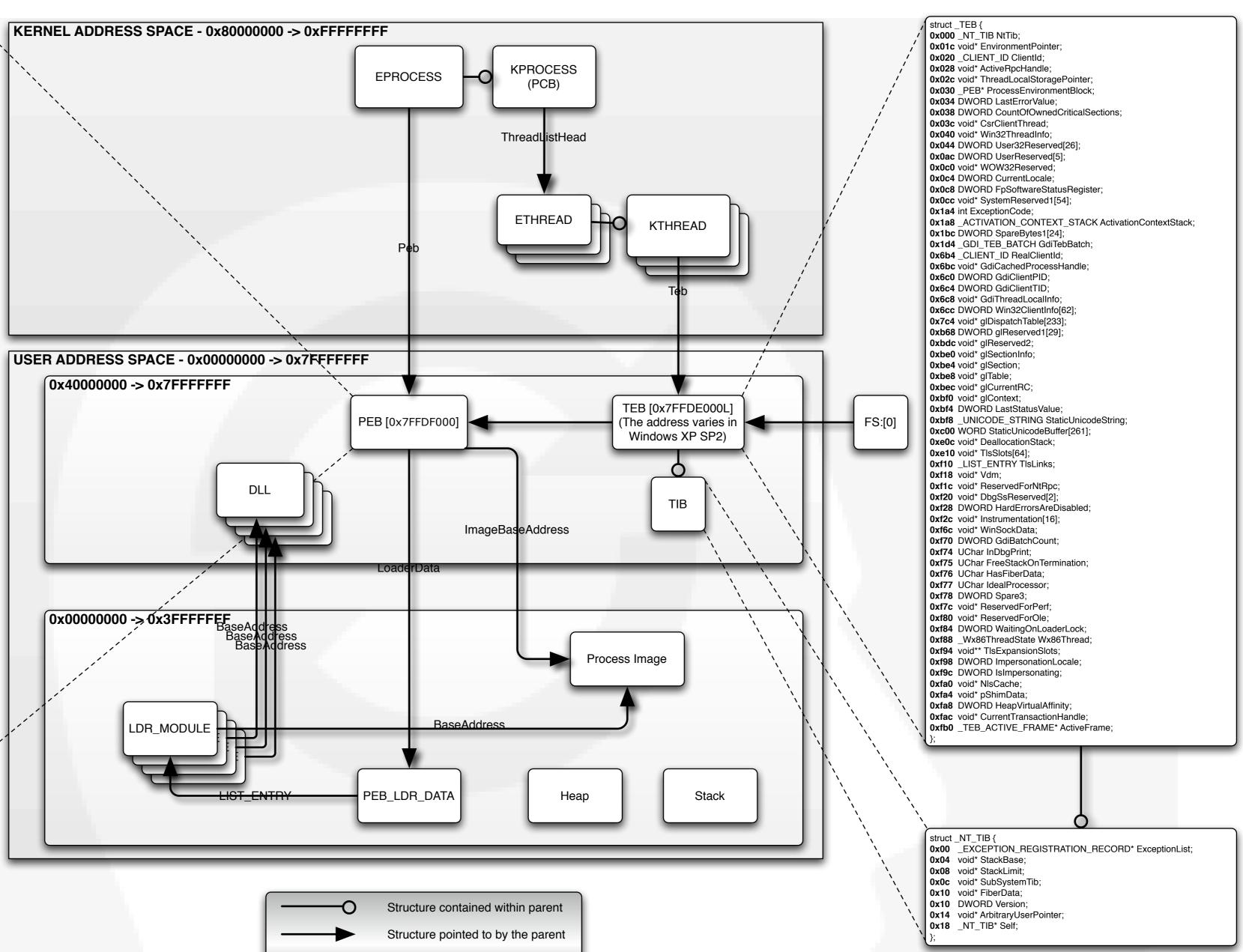
0x1fc void\* ProcessAssemblyStorageMap;

0x204 void\* SystemAssemblyStorageMap;
0x208 DWORD MinimumStackCommit;

**0x200** void\* SystemDefaultActivationContextData;

**0x1f8** void\* ActivationContextData;





Last updated on Fri Dec 23 2005 Created by Ero Carrera Ventura

## **Memory Layout for Windows XP**

## References:

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