

DevGuru

CD

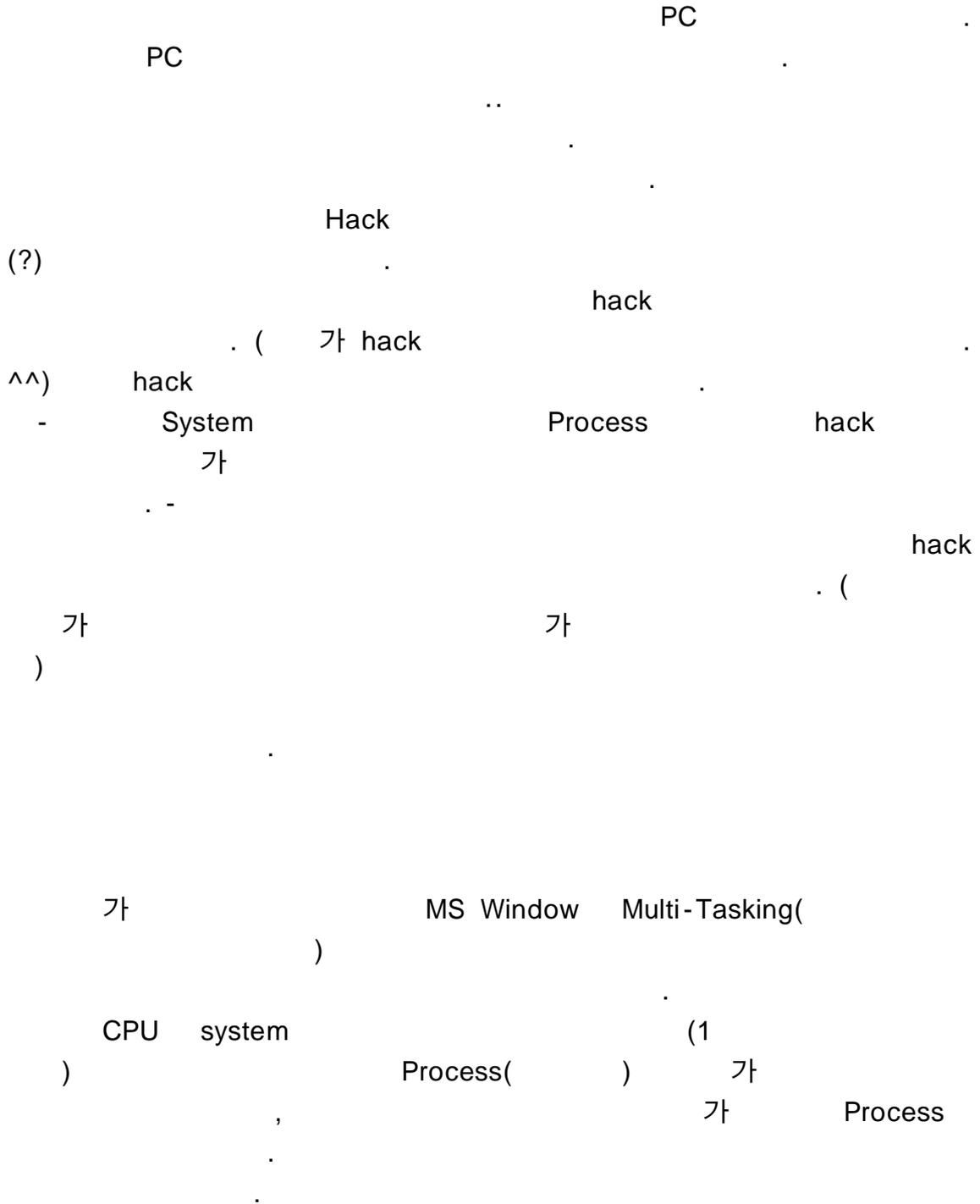
DevGuru

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Process

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WINDOWS
가
process

process List

process가

Hack



WINDOWS 가 Process
WINDOWS Process

- Process
가

WINDOWS

WINDOWS Process
Process

Process EPROCESS
Process

XP

EPROCESS

```
kd> dt _EPROCESS
```

```
+0x000 Pcb : _KPROCESS
+0x06c ProcessLock : _EX_PUSH_LOCK
+0x070 CreateTime : _LARGE_INTEGER
```

+0x078 ExitTime : _LARGE_INTEGER
+0x080 RundownProtect : _EX_RUNDOWN_REF
+0x084 UniqueProcessId : Ptr32 Void
+0x088 ActiveProcessLinks : LIST_ENTRY
+0x090 QuotaUsage : [3] Uint4B
+0x09c QuotaPeak : [3] Uint4B
+0x0a8 CommitCharge : Uint4B
+0x0ac PeakVirtualSize : Uint4B
+0x0b0 VirtualSize : Uint4B
+0x0b4 SessionProcessLinks : _LIST_ENTRY
+0x0bc DebugPort : Ptr32 Void
+0x0c0 ExceptionPort : Ptr32 Void
+0x0c4 ObjectTable : Ptr32 _HANDLE_TABLE
+0x0c8 Token : _EX_FAST_REF
+0x0cc WorkingSetLock : _FAST_MUTEX
+0x0ec WorkingSetPage : Uint4B
+0x0f0 AddressCreationLock : _FAST_MUTEX
+0x110 HyperSpaceLock : Uint4B
+0x114 ForkInProgress : Ptr32 _ETHREAD
+0x118 HardwareTrigger : Uint4B
+0x11c VadRoot : Ptr32 Void
+0x120 VadHint : Ptr32 Void
+0x124 CloneRoot : Ptr32 Void
+0x128 NumberOfPrivatePages : Uint4B
+0x12c NumberOfLockedPages : Uint4B
+0x130 Win32Process : Ptr32 Void
+0x134 Job : Ptr32 _EJOB
+0x138 SectionObject : Ptr32 Void
+0x13c SectionBaseAddress : Ptr32 Void
+0x140 QuotaBlock : Ptr32 _EPROCESS_QUOTA_BLOCK
+0x144 WorkingSetWatch : Ptr32 _PAGEFAULT_HISTORY
+0x148 Win32WindowStation : Ptr32 Void
+0x14c InheritedFromUniqueProcessId : Ptr32 Void
+0x150 LdtInformation : Ptr32 Void
+0x154 VadFreeHint : Ptr32 Void
+0x158 VdmObjects : Ptr32 Void

```
+0x15c DeviceMap      : Ptr32 Void
+0x160 PhysicalVadList : _LIST_ENTRY
+0x168 PageDirectoryPte : _HARDWARE_PTE
+0x168 Filler         : Uint8B
+0x170 Session        : Ptr32 Void
+0x174 ImageFileName  : [16] UChar
+0x184 JobLinks       : _LIST_ENTRY
+0x18c LockedPagesList : Ptr32 Void
+0x190 ThreadListHead : _LIST_ENTRY
+0x198 SecurityPort   : Ptr32 Void
+0x19c PaeTop         : Ptr32 Void
+0x1a0 ActiveThreads  : Uint4B
+0x1a4 GrantedAccess  : Uint4B
+0x1a8 DefaultHardErrorProcessing : Uint4B
+0x1ac LastThreadExitStatus : Int4B
+0x1b0 Peb            : Ptr32 _PEB
+0x1b4 PrefetchTrace  : _EX_FAST_REF
+0x1b8 ReadOperationCount : _LARGE_INTEGER
+0x1c0 WriteOperationCount : _LARGE_INTEGER
+0x1c8 OtherOperationCount : _LARGE_INTEGER
+0x1d0 ReadTransferCount : _LARGE_INTEGER
+0x1d8 WriteTransferCount : _LARGE_INTEGER
+0x1e0 OtherTransferCount : _LARGE_INTEGER
+0x1e8 CommitChargeLimit : Uint4B
+0x1ec CommitChargePeak : Uint4B
+0x1f0 AweInfo        : Ptr32 Void
+0x1f4 SeAuditProcessCreationInfo : _SE_AUDIT_PROCESS_CREATION_INFO
+0x1f8 Vm              : _MMSUPPORT
+0x238 LastFaultCount  : Uint4B
+0x23c ModifiedPageCount : Uint4B
+0x240 NumberOfVads    : Uint4B
+0x244 JobStatus       : Uint4B
+0x248 Flags           : Uint4B
+0x248 CreateReported  : Pos 0, 1 Bit
+0x248 NoDebugInherit  : Pos 1, 1 Bit
+0x248 ProcessExiting  : Pos 2, 1 Bit
```

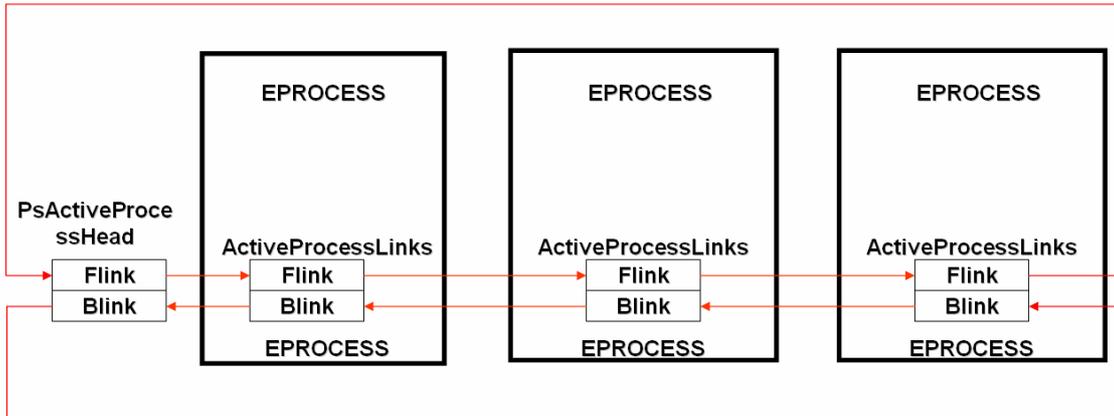
+0x248 ProcessDelete	: Pos 3, 1 Bit
+0x248 Wow64SplitPages	: Pos 4, 1 Bit
+0x248 VmDeleted	: Pos 5, 1 Bit
+0x248 OutswapEnabled	: Pos 6, 1 Bit
+0x248 Outswapped	: Pos 7, 1 Bit
+0x248 ForkFailed	: Pos 8, 1 Bit
+0x248 HasPhysicalVad	: Pos 9, 1 Bit
+0x248 AddressSpaceInitialized	: Pos 10, 2 Bits
+0x248 SetTimerResolution	: Pos 12, 1 Bit
+0x248 BreakOnTermination	: Pos 13, 1 Bit
+0x248 SessionCreationUnderway	: Pos 14, 1 Bit
+0x248 WriteWatch	: Pos 15, 1 Bit
+0x248 ProcessInSession	: Pos 16, 1 Bit
+0x248 OverrideAddressSpace	: Pos 17, 1 Bit
+0x248 HasAddressSpace	: Pos 18, 1 Bit
+0x248 LaunchPrefetched	: Pos 19, 1 Bit
+0x248 InjectInpageErrors	: Pos 20, 1 Bit
+0x248 Unused	: Pos 21, 11 Bits
+0x24c ExitStatus	: Int4B
+0x250 NextPageColor	: UInt2B
+0x252 SubSystemMinorVersion	: UChar
+0x253 SubSystemMajorVersion	: UChar
+0x252 SubSystemVersion	: UInt2B
+0x254 PriorityClass	: UChar
+0x255 WorkingSetAcquiredUnsafe	: UChar

EPROCESS 가 .
 offset 0x88 ActiveProcessLinks : _LIST_ENTRY 가 .
 field Process .

```
kd> dt _LIST_ENTRY
+0x000 Flink : Ptr32 _LIST_ENTRY
+0x004 Blink : Ptr32 _LIST_ENTRY
```

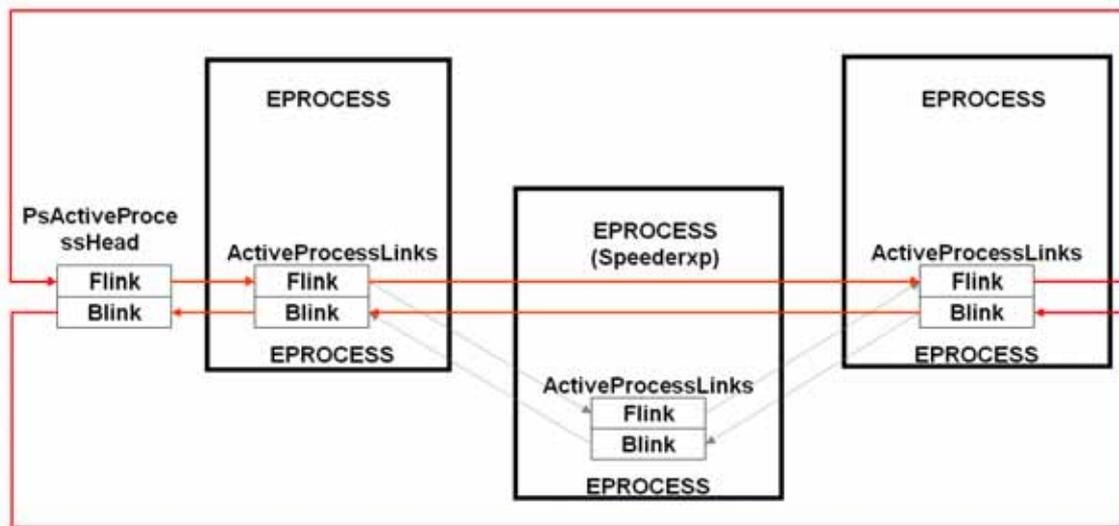
Flink Process EPROCESS 가 .

Blink Process EPROCESS 가 .



가 ()
Windows Process process

Linked list 가
가?



가 process SpeederXP Process Flink
Blink SpeederXP Process ,
SpeederXP Process . (kernel mode
technique .)

kernel debug Soft-ICE

Step 1.

```
:proc
```

Process	KPEB	PID	Threads	Pri	User Time	Krnl Time	Status
System	825B97B8	4	3C	8	00000000	0000025E	Ready
smss	821B7908	2B4	3	B	00000001	00000001	Idle
csrss	82116690	2E4	C	D	00000049	00000092	Ready
ImUMgr	81D5C638	7F8	0	8	00000004	00000014	Deleting
SpeederXP	816DA398	A7C	3	8	00000001	00000009	Ready
Loader32	81DFECA0	1A4	3	8	00000012	00000041	Ready
uedit32	81E0F120	C14	4	8	00000033	0000007F	Ready
IEXPLORE	81F13020	CBC	E	8	00000019	00000054	Ready
*Idle	8055D0A0	0	2	0	00000000	0001B1F1	Running

Proc SpeederXP

Step 2.

```
:d 816da398+88
```

0010:816DA420	81DFED28	81D5C6C0	00000F28	0001004C	(.....(...L...
0010:816DA430	00000367	000010A8	000111DC	00000367	g.....g...
0010:816DA440	00000367	02B9B000	02A9F000	81DFED54	g.....T...
0010:816DA450	81E10CC4	00000000	E14491C8	E2BFA960D.`...
0010:816DA460	E2956D27	00000001	EE3EB97C	00000002	'm..... .>....
0010:816DA470	00040001	00000000	816DA478	816DA478x.m.x.m.
0010:816DA480	00000000	0001ACA9	00000001	EE120D04
0010:816DA490	00000000	00040001	00000000	816DA49Cm.

Speeder KPEB 가 EPROCESS

0x88 ActiveProcessLinks 가 Flink, Blink Process

Process 가

```
:proc 81dfed28-88
```

Process	KPEB	PID	Threads	Pri	User Time	Krnl Time	Status
Loader32	81DFECA0	1A4	3	8	00000025	00000077	Ready

```
:proc 81d5c6c0-88
```

Process	KPEB	PID	Threads	Pri	User Time	Krnl Time	Status
ImUMgr	81D5C638	7F8	0	8	00000004	00000014	Deleting

Flink Blink Process가

0x88 가?

Flink Blink EPROCESS 가

EPROCESS ActiveProcessLinks 가

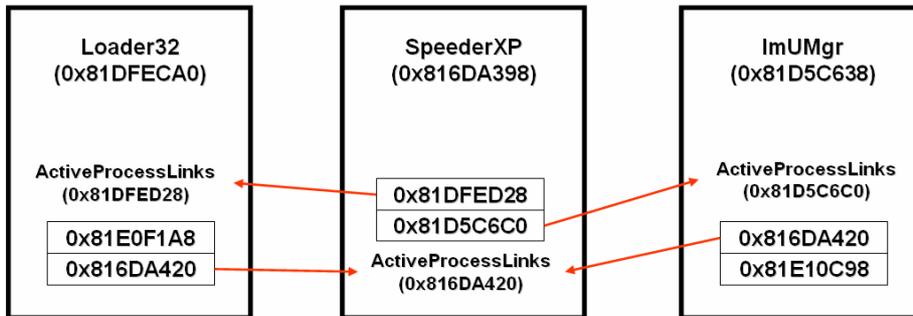
SpeederXP process EPROCESS ActiveProcessLinks

```

:d 81dfeca0+88
0010:81DFED28 81E0F1A8 816DA420 00001A68 0001785C      .... .m.h... x..
0010:81DFED38 000008E4 00001E20 0001C874 00000933      .... .t...3...
0010:81DFED48 000008E4 0440B000 037AD000 81E0F1D4      .....@...Z....
0010:81DFED58 816DA44C 00000000 E14491C8 E1E0FC08      L.m.....D....
0010:81DFED68 E1E8B582 00000001 EDD37D00 00000003      .....}.....
0010:81DFED78 00040001 00000000 81DFED80 81DFED80      .....
0010:81DFED88 00000000 00019106 00000001 EDD37D04      .....}..
0010:81DFED98 00000003 00040001 00000000 81DFEDA4      .....
    
```

```

:d 81d5c638+88
0010:81D5C6C0 816DA420 81E10C98 00000000 00000000      .m.....
0010:81D5C6D0 00000000 0000202E 0001AECC 000004B2      .....
0010:81D5C6E0 00000000 042E9000 033D9000 F8B99014      .....=.
0010:81D5C6F0 81E10CC4 00000000 E14491C8 00000000      .....D....
0010:81D5C700 E1392D23 00000001 EDFF8B80 00000001      #-9.....
0010:81D5C710 00040001 00000000 81D5C718 81D5C718      .....
0010:81D5C720 00000000 00012EF1 00000001 EDFF8C54      .....T...
0010:81D5C730 00000001 00040001 00000000 81D5C73C      .....<...
    
```



Step 3.

가 Loader32 ImUMgr Flink Blink

. ^^

Tools

OS : Windows XP SP2

Tools : Windbg 6.3

Soft-ICE 4.3.2

Microsoft Windows Internals Fourth Edition. By Russinovich, Solomon
Undocumented Windows 2000 Secrets by Schreiber