

PEB (winternl.h) - Win32 apps

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[This structure may be altered in future versions of Windows.]

Contains process information.

Syntax

```
typedef struct _PEB {
    BYTE                Reserved1[2];
    BYTE                BeingDebugged;
    BYTE                Reserved2[1];
    PVOID               Reserved3[2];
    PPEB_LDR_DATA       Ldr;
    PRTL_USER_PROCESS_PARAMETERS ProcessParameters;
    PVOID               Reserved4[3];
    PVOID               AtlThunkSListPtr;
    PVOID               Reserved5;
    ULONG               Reserved6;
    PVOID               Reserved7;
    ULONG               Reserved8;
    ULONG               AtlThunkSListPtr32;
    PVOID               Reserved9[45];
    BYTE                Reserved10[96];
    PPS_POST_PROCESS_INIT_ROUTINE PostProcessInitRoutine;
    BYTE                Reserved11[128];
    PVOID               Reserved12[1];
    ULONG               SessionId;
} PEB, *PPEB;
```

Members

Reserved1[2]

Reserved for internal use by the operating system.

BeingDebugged

Indicates whether the specified process is currently being debugged. The **PEB** structure, however, is an internal operating-system structure whose layout may change in the future. It is best to use the [CheckRemoteDebuggerPresent](#) function instead.

Reserved2[1]

Reserved for internal use by the operating system.

Reserved3[2]

Reserved for internal use by the operating system.

Ldr

A pointer to a [PEB_LDR_DATA](#) structure that contains information about the loaded modules for the process.

ProcessParameters

A pointer to an [RTL_USER_PROCESS_PARAMETERS](#) structure that contains process parameter information such as the command line.

Reserved4[3]

Reserved for internal use by the operating system.

AtThunkSListPtr

Reserved5

Reserved for internal use by the operating system.

Reserved6

Reserved for internal use by the operating system.

Reserved7

Reserved for internal use by the operating system.

Reserved8

AtThunkSListPtr32

Reserved9[45]

Reserved10[96]

PostProcessInitRoutine

Not supported.

Reserved11[128]

Reserved12[1]

SessionId

The Terminal Services session identifier associated with the current process.

The syntax for this structure on 64-bit Windows is as follows:

```
typedef struct _PEB {
    BYTE Reserved1[2];
    BYTE BeingDebugged;
    BYTE Reserved2[21];
    PPEB_LDR_DATA LoaderData;
    PRTL_USER_PROCESS_PARAMETERS ProcessParameters;
    BYTE Reserved3[520];
    PPS_POST_PROCESS_INIT_ROUTINE PostProcessInitRoutine;
    BYTE Reserved4[136];
    ULONG SessionId;
} PEB;
```

Requirements

Requirement	Value
Minimum supported client	Windows XP [desktop apps only]
Minimum supported server	Windows Server 2003 [desktop apps only]
Header	winternl.h

See also

[NtQueryInformationProcess](#)

[ZwQueryInformationProcess](#)

[TEB](#)

[PEB_LDR_DATA](#)

[RTL_USER_PROCESS_PARAMETERS](#)

Source: <https://docs.microsoft.com/en-us/windows/win32/api/winternl/ns-winternl-peb>