

**NAME**

`ares_library_cleanup` – c-ares library deinitialization

**SYNOPSIS**

**#include** <ares.h>

**void** `ares_library_cleanup(void)`

**cc** file.c -lcared

**DESCRIPTION**

The **`ares_library_cleanup`** function uninitializes the c-ares library, freeing all resources previously aquired by *ares\_library\_init(3)* when the library was initialized.

This function must be called when the program using c-ares will no longer need any c-ares function. Once the program has called *ares\_library\_cleanup(3)* it shall not make any further call to any c-ares function.

This function does not cancel any pending c-ares lookups or requests previously done. Program must use *ares\_cancel(3)* for this purpose.

**This function is not thread safe.** You have to call it once the program is about to terminate, but this call must be done once the program has terminated every single thread that it could have initiated. This is required to avoid potential race conditions in library deinitialization, and also due to the fact that *ares\_library\_cleanup(3)* might call functions from other libraries that are thread unsafe, and could conflict with any other thread that is already using these other libraries.

Win32/64 application DLLs shall not call *ares\_library\_cleanup(3)* from the DllMain function. Doing so will produce deadlocks and other problems.

**AVAILABILITY**

This function was first introduced in c-ares version 1.7.0 along with the definition of preprocessor symbol *CARES\_HAVE\_ARES\_LIBRARY\_CLEANUP* as an indication of the availability of this function.

Since the introduction of this function, it is absolutely mandatory to call it for any Win32/64 program using c-ares.

Non-Win32/64 systems can still use c-ares version 1.7.0 without calling *ares\_library\_cleanup(3)* due to the fact that *currently* it is nearly a do-nothing function on non-Win32/64 platforms.

**SEE ALSO**

**`ares_library_init(3)`, `ares_cancel(3)`**

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