NAME

ares_gethostbyaddr – Initiate a host query by address

SYNOPSIS

#include <ares.h>

typedef void (*ares_host_callback)(void *_arg_**, int** _status_**,
int** _timeouts_**, struct hostent ***_hostent_**)**

void ares_gethostbyaddr(ares_channel _channel_**, const void ***_addr_**,
int** _addrlen_**, int** _family_**, ares_host_callback** _callback_**,
void ***_arg_**)**

DESCRIPTION

The **ares_gethostbyaddr** function initiates a host query by address on the name service channel identified by _channel_. The parameters _addr_ and _addrlen_ give the address as a series of bytes, and _family_ gives the type of address. When the query is complete or has failed, the ares library will invoke _callback_. Completion or failure of the query may happen immediately, or may happen during a later call to _ares_process(3)_, _ares_destroy(3)_ or _ares_cancel(3)_.

The callback argument _arg_ is copied from the **ares_gethostbyaddr** argument _arg_. The callback argument _status_ indicates whether the query succeeded and, if not, how it failed. It may have any of the following values:

ARES_SUCCESS   The host lookup completed successfully.

ARES_ENOTIMP   The ares library does not know how to look up addresses of type _family_.

ARES_ENOTFOUND
                     The address _addr_ was not found.

ARES_ENOMEM   Memory was exhausted.

ARES_EDESTRUCTION
                     The name service channel _channel_ is being destroyed; the query will not be completed.

The callback argument _timeouts_ reports how many times a query timed out during the execution of the given request.

On successful completion of the query, the callback argument _hostent_ points to a **struct hostent** containing the name of the host returned by the query. The callback need not and should not attempt to free the memory pointed to by _hostent_; the ares library will free it when the callback returns. If the query did not complete successfully, _hostent_ will be **NULL**.

SEE ALSO

ares_process(3), **ares_gethostbyname**(3)

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