NAME

ares_create_query − Compose a single-question DNS query buffer

SYNOPSIS

#include <ares.h>

int ares_create_query(const char *_name_,
int _dnsclass_,
int _type_,
unsigned short _id_,
int _rd_,
unsigned char **_buf_,
int *_buflen_,
int _max_udp_size_)

DESCRIPTION

The *ares_create_query(3)* function composes a DNS query with a single question. The parameter *name* gives the query name as a NUL-terminated C string of period-separated labels optionally ending with a period; periods and backslashes within a label must be escaped with a backlash.

The parameters *dnsclass* and *type* give the class and type of the query using the values defined in **<arpa/nameser.h>**.

The parameter *id* gives a 16-bit identifier for the query.

The parameter *rd* should be nonzero if recursion is desired, zero if not.

The query will be placed in an allocated buffer, a pointer to which will be stored in the variable pointed to by *buf*, and the length of which will be stored in the variable pointed to by *buflen*.

It is the caller's responsibility to free this buffer using *ares_free_string(3)* when it is no longer needed. The parameter *max_udp_size* should be nonzero to activate EDNS. Usage of *ares_create_query(3)* with *max_udp_size* set to zero is equivalent to using *ares_mkquery(3)*.

RETURN VALUES

ares_create_query can return any of the following values:

ARES_SUCCESS
Construction of the DNS query succeeded.

ARES_EBADNAME
The query name *name* could not be encoded as a domain name, either because it contained a zero-length label or because it contained a label of more than 63 characters.

ARES_ENOMEM
Memory was exhausted.

AVAILABILITY

Added in c-ares 1.10.0

SEE ALSO

ares_expand_name(3), **ares_free_string**(3), **ares_mkquery**(3)

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