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)
```

AUTHOR