NAME

```
ares_parse_txt_reply - Parse a reply to a DNS query of type TXT
```

SYNOPSIS

```
#include <ares.h>
```

```
int ares_parse_txt_reply(const unsigned char* abuf, int alen,
struct ares_txt_reply **txt_out);
```

int ares_parse_txt_reply_ext(const unsigned char* abuf, int alen,
struct ares_txt_ext **txt_out);

DESCRIPTION

The ares_parse_txt_reply (ares_parse_txt_reply_ext) function parses the response to a query of type TXT into a linked list (one element per sub-string) of struct ares_txt_reply (struct ares_txt_ext) The parameters abuf and alen give the contents of the response. The result is stored in allocated memory and a pointer to it stored into the variable pointed to by txt_out. It is the caller's responsibility to free the resulting txt_out structure when it is no longer needed using the function ares_free_data

The structure *ares_txt_reply* contains the following fields:

```
struct ares_txt_reply {
  struct ares_txt_reply *next;
  unsigned int length;
  unsigned char *txt;
};
```

The structure *ares_txt_ext* contains the following fields:

```
struct ares_txt_ext {
   struct ares_txt_ext *next;
   unsigned int length;
   unsigned char *txt;
   unsigned char record_start;
}:
```

The *record_start* field in *struct ares_txt_ext* is 1 if this structure is a start of a TXT record, and 0 if the structure is a continuation of a previous record. The linked list of the *struct ares_txt_ext* will have at least one item with *record_start* equal to 1, and may have some items with *record_start* equal to 0 between them.

These sequences of *struct ares_txt_ext* (starting from the item with *record_start* equal to 1, and ending right before the record start item) may be treated as either components of a single TXT record or as a multiparted TXT record, depending on particular use case.

RETURN VALUES

ares_parse_txt_reply (ares_parse_txt_reply_ext) can return any of the following values:

ARES_SUCCESS

The response was successfully parsed.

ARES_EBADRESP

The response was malformatted.

ARES ENODATA

The response did not contain an answer to the query.

ARES_ENOMEM

Memory was exhausted.

AVAILABILITY

This function was first introduced in c-ares version 1.7.0.

SEE ALSO

 $ares_query(3)\ ares_free_data(3)$

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