

NAME

`ares_parse_a_reply` – Parse a reply to a DNS query of type A

SYNOPSIS

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

```
int ares_parse_a_reply(const unsigned char *abuf, int alen,  
                      struct hostent **host,  
                      struct ares_addrttl *addrttls, int *naddrttls);
```

DESCRIPTION

The **`ares_parse_a_reply`** function parses the response to a query of type A into a **`struct hostent`** and/or an array of **`struct ares_addrttl`**. 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 *host*, if *host* is non-null. It is the caller's responsibility to free the resulting host structure using **`ares_free_hostent(3)`** when it is no longer needed.

If *addrttls* and *naddrttls* are both nonnull, then up to **naddrttls* **`struct ares_addrttl`** records are stored in the array pointed to by *addrttls*, and then **naddrttls* is set to the number of records so stored. Note that the memory for these records is supplied by the caller.

RETURN VALUES

`ares_parse_a_reply` can return any of the following values:

ARES_SUCCESS

The response was successfully parsed.

ARES_EBADRESP

The response was malformed.

ARES_ENODATA

The response did not contain an answer to the query.

ARES_ENOMEM

Memory was exhausted.

SEE ALSO

`ares_gethostbyname(3)`, **`ares_free_hostent(3)`**