

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)`

AUTHOR

Greg Hudson, MIT Information Systems

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