

**NAME**

`ares_parse_soa_reply` – Parse a reply to a DNS query of type SOA

**SYNOPSIS**

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

```
int ares_parse_soa_reply(const unsigned char* abuf, int alen,  
                        struct ares_soa_reply** soa_out);
```

**DESCRIPTION**

The `ares_parse_soa_reply` function parses the response to a query of type SOA into a *struct ares\_soa\_reply*. 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 *soa\_out*. It is the caller's responsibility to free the resulting *soa\_out* structure when it is no longer needed using the function `ares_free_data`

The structure *ares\_soa\_reply* contains the following fields:

```
struct ares_soa_reply {  
    char *nsname;  
    char *hostmaster;  
    unsigned int serial;  
    unsigned int refresh;  
    unsigned int retry;  
    unsigned int expire;  
    unsigned int minttl;  
};
```

**RETURN VALUES**

`ares_parse_soa_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.

**AVAILABILITY**

This function was first introduced in c-ares version 1.9.0.

**SEE ALSO**

`ares_query(3)` `ares_free_data(3)`