

**NAME**

`ares_expand_name` – Expand a DNS-encoded domain name

**SYNOPSIS**

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

```
int ares_expand_name(const unsigned char *encoded,  
const unsigned char *abuf, int alen, char **s,  
long *enclen)
```

**DESCRIPTION**

The `ares_expand_name` function converts a DNS-encoded domain name to a dot-separated C string. The argument `encoded` gives the beginning of the encoded domain name, and the arguments `abuf` and `alen` give the containing message buffer (necessary for the processing of indirection pointers within the encoded domain name). The result is placed in a NUL-terminated allocated buffer, a pointer to which is stored in the variable pointed to by `s`. The length of the encoded name is stored in the variable pointed to by `enclen` so that the caller can advance past the encoded domain name to read further data in the message.

Use `ares_free_string(3)` to free the allocated hostname.

**RETURN VALUES**

`ares_expand_name` can return any of the following values:

**ARES\_SUCCESS**

Expansion of the encoded name succeeded.

**ARES\_EBADNAME**

The encoded domain name was malformed and could not be expanded.

**ARES\_ENOMEM**

Memory was exhausted.

**SEE ALSO**

`ares_mkquery(3)`, `ares_free_string(3)`

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