

NAME

`ares_get_servers`, `ares_get_servers_ports` – Retrieve name servers from an initialized `ares_channel` (deprecated)

SYNOPSIS

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

```
int ares_get_servers(const ares_channel_t *channel,
                    struct ares_addr_node **servers)
```

```
int ares_get_servers_ports(const ares_channel_t *channel,
                           struct ares_addr_port_node **servers)
```

DESCRIPTION

The **`ares_get_servers(3)`** function retrieves name servers configuration from the channel data identified by *channel*, as a linked list of `ares_addr_node` structs storing a pointer to the first node at the address specified by *servers*.

The **`ares_get_servers_ports(3)`** function also retrieves any per-server port information that may have been previously configured, returning a linked list of `ares_addr_port` structures.

Function caller may traverse the returned name server linked list, or may use it directly as suitable input for the **`ares_set_servers(3)`** / **`ares_set_servers_ports(3)`** functions, but shall not shrink or extend the list on its own.

Each node of the name server linked list is stored in memory dynamically allocated and managed by c-ares. It is the caller's responsibility to free the resulting linked list, using **`ares_free_data(3)`**, once the caller does not need it any longer.

This function is capable of handling IPv4 and IPv6 name server addresses simultaneously, rendering **`ares_save_options(3)`** with optmask **`ARES_OPT_SERVERS`** functionally obsolete except for IPv4-only name server usage.

RETURN VALUES

This function may return any of the following values:

`ARES_SUCCESS`

The name servers configuration was successfully retrieved

`ARES_ENOMEM`

The memory was exhausted

`ARES_ENODATA`

The channel data identified by *channel* was invalid.

SEE ALSO

`ares_set_servers(3)`, **`ares_init_options(3)`**, **`ares_save_options(3)`**

AVAILABILITY

`ares_get_servers(3)` was added in c-ares 1.7.1; **`ares_get_servers_ports(3)`** was added in c-ares 1.11.0.

NOTES

As of c-ares 1.24, these functions are deprecated due to their lack of ability to store the entire server configuration. Use **`ares_get_servers_csv(3)`**.