

NAME

`ares_process` – Process events for name resolution

SYNOPSIS

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

```
void ares_process(ares_channel channel, fd_set *read_fds,
                 fd_set *write_fds)
```

```
void ares_process_fd(ares_channel channel, ares_socket_t read_fd, ares_socket_t write_fd)
```

DESCRIPTION

The `ares_process(3)` function handles input/output events and timeouts associated with queries pending on the name service channel identified by `channel`. The file descriptor sets pointed to by `read_fds` and `write_fds` should have file descriptors set in them according to whether the file descriptors specified by `ares_fds(3)` are ready for reading and writing. (The easiest way to determine this information is to invoke `select` with a timeout no greater than the timeout given by `ares_timeout(3)`).

The `ares_process` function will invoke callbacks for pending queries if they complete successfully or fail.

`ares_process_fd(3)` works the same way but acts and operates only on the specific file descriptors (sockets) you pass in to the function. Use `ARES_SOCKET_BAD` for "no action". This function is of course provided to allow users of c-ares to void `select()` in their applications and within c-ares.

EXAMPLE

The following code fragment waits for all pending queries on a channel to complete:

```
int nfd, count;
fd_set readers, writers;
struct timeval tv, *tvp;

while (1)
{
    FD_ZERO(&readers);
    FD_ZERO(&writers);
    nfd = ares_fds(channel, &readers, &writers);
    if (nfd == 0)
        break;
    tvp = ares_timeout(channel, NULL, &tv);
    count = select(nfd, &readers, &writers, NULL, tvp);
    ares_process(channel, &readers, &writers);
}
```

SEE ALSO

`ares_fds(3)`, `ares_timeout(3)`

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