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 nfds, count;
fd_set readers, writers;
struct timeval tv, *tvp;

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

SEE ALSO

 $ares_fds(3), ares_timeout(3)$

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