ARES_PROCESS(3) ARES_PROCESS(3)

NAME

ares_process - Process events for name resolution

SYNOPSIS

```
#include <ares.h>
void ares process(ares channel channel, fd set *read fds,
```

void ares process fd(ares channel channel, ares socket t read fd, ares socket t write fd)

DESCRIPTION

fd set *write fds)

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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