### **NAME**

curl\_multi\_wait - polls on all easy handles in a multi handle

#### **SYNOPSIS**

#### **DESCRIPTION**

curl\_multi\_wait(3) polls all file descriptors used by the curl easy handles contained in the given multi handle set. It will block until activity is detected on at least one of the handles or timeout\_ms has passed. Alternatively, if the multi handle has a pending internal timeout that has a shorter expiry time than timeout ms, that shorter time will be used instead to make sure timeout accuracy is reasonably kept.

The calling application may pass additional curl\_waitfd structures which are similar to *poll(2)*'s pollfd structure to be waited on in the same call.

On completion, if *numfds* is non-NULL, it will be populated with the total number of file descriptors on which interesting events occurred. This number can include both libcurl internal descriptors as well as descriptors provided in *extra\_fds*.

If no extra file descriptors are provided and libcurl has no file descriptor to offer to wait for, this function will return immediately.

This function is encouraged to be used instead of select(3) when using the multi interface to allow applications to easier circumvent the common problem with 1024 maximum file descriptors.

# curl\_waitfd

```
struct curl_waitfd {
  curl_socket_t fd;
  short events;
  short revents;
};
```

## CURL WAIT POLLIN

Bit flag to curl\_waitfd.events indicating the socket should poll on read events such as new data received.

## CURL\_WAIT\_POLLPRI

Bit flag to curl\_waitfd.events indicating the socket should poll on high priority read events such as out of band data.

### CURL WAIT POLLOUT

Bit flag to curl\_waitfd.events indicating the socket should poll on write events such as the socket being clear to write without blocking.

### **EXAMPLE**

```
CURL *easy_handle;
CURLM *multi_handle;

/* add the individual easy handle */
curl_multi_add_handle(multi_handle, easy_handle);

do {
    CURLMcode mc;
```

```
int numfds;
         mc = curl_multi_perform(multi_handle, &still_running);
         if(mc == CURLM OK) {
          /* wait for activity, timeout or "nothing" */
          mc = curl_multi_wait(multi_handle, NULL, 0, 1000, &numfds);
         if(mc != CURLM_OK) {
          fprintf(stderr, "curl_multi failed, code %d.0, mc);
          break;
         /* 'numfds' being zero means either a timeout or no file descriptors to
           wait for. Try timeout on first occurrence, then assume no file
           descriptors and no file descriptors to wait for means wait for 100
           milliseconds. */
         if(!numfds) {
          repeats++; /* count number of repeated zero numfds */
          if(repeats > 1) {
            WAITMS(100); /* sleep 100 milliseconds */
           }
         else
          repeats = 0;
        } while(still_running);
        curl_multi_remove_handle(multi_handle, easy_handle);
RETURN VALUE
        CURLMcode type, general libcurl multi interface error code. See libcurl-errors(3)
AVAILABILITY
        This function was added in libcurl 7.28.0.
SEE ALSO
```

curl\_multi\_fdset(3), curl\_multi\_perform(3)