NAME

curl_multi_wait - polls on all easy handles in a multi handle

SYNOPSIS

```
#include <curl/curl.h>

CURLMcode curl_multi_wait(CURLM *multi_handle,
                          struct curl_waitfd extra_fds[],
                          unsigned int extra_nfds,
                          int timeout_ms,
                          int *numfds);
```

DESCRIPTION

This function polls on 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.

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 supplied, it will be populated with the number of file descriptors on which interesting events occured.

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.

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)