#include <curl/curl.h>

NAME

CURLOPT_DEBUGFUNCTION - debug callback

SYNOPSIS

```
typedef enum {
CURLINFO_TEXT = 0,
 CURLINFO_HEADER_IN, /* 1 */
 CURLINFO_HEADER_OUT, /* 2 */
 CURLINFO DATA IN, /* 3 */
 CURLINFO_DATA_OUT, /* 4 */
 CURLINFO_SSL_DATA_IN, /* 5 */
 CURLINFO_SSL_DATA_OUT, /* 6 */
CURLINFO_END
} curl_infotype;
int debug_callback(CURL *handle,
         curl_infotype type,
         char *data,
         size_t size,
         void *userptr);
CURLcode curl_easy_setopt(CURL *handle, CURLOPT_DEBUGFUNCTION,
```

DESCRIPTION

Pass a pointer to your callback function, which should match the prototype shown above.

CURLOPT_DEBUGFUNCTION(3) replaces the standard debug function used when CURLOPT_VER-BOSE(3) is in effect. This callback receives debug information, as specified in the type argument. This function must return 0. The data pointed to by the char * passed to this function WILL NOT be zero terminated, but will be exactly of the size as told by the size argument.

The *userptr* argument is the pointer set with *CURLOPT_DEBUGDATA*(3).

Available curl_infotype values:

```
CURLINFO_TEXT
```

The data is informational text.

debug_callback);

CURLINFO HEADER IN

The data is header (or header-like) data received from the peer.

CURLINFO_HEADER_OUT

The data is header (or header-like) data sent to the peer.

CURLINFO_DATA_IN

The data is protocol data received from the peer.

CURLINFO DATA OUT

The data is protocol data sent to the peer.

CURLINFO_SSL_DATA_OUT

The data is SSL/TLS (binary) data sent to the peer.

CURLINFO SSL DATA IN

The data is SSL/TLS (binary) data received from the peer.

DEFAULT

NULL

PROTOCOLS

All

EXAMPLE

```
void dump(const char *text,
      FILE *stream, unsigned char *ptr, size_t size)
 size_t i;
 size_t c;
 unsigned int width=0x10;
 fprintf(stream, "%s, %10.10ld bytes (0x%8.8lx)0,
      text, (long)size, (long)size);
 for(i=0; i < size; i+= width) {
  fprintf(stream, "%4.4lx: ", (long)i);
  /* show hex to the left */
  for(c = 0; c < width; c++) {
   if(i+c < size)
    fprintf(stream, "%02x ", ptr[i+c]);
   else
    fputs(" ", stream);
  }
  /* show data on the right */
  for(c = 0; (c < width) && (i+c < size); c++)
   fputc(ptr[i+c] >= 0x20) && (ptr[i+c] < 0x80)?ptr[i+c]:'.', stream);
  fputc('0, stream); /* newline */
}
int my_trace(CURL *handle, curl_infotype type,
        char *data, size_t size,
        void *userp)
 const char *text;
 (void)handle; /* prevent compiler warning */
 switch (type) {
 case CURLINFO_TEXT:
  fprintf(stderr, "== Info: %s", data);
 default: /* in case a new one is introduced to shock us */
  return 0:
 case CURLINFO_HEADER_OUT:
  text = "=> Send header";
  break;
 case CURLINFO_DATA_OUT:
  text = "=> Send data";
```

```
break;
         case CURLINFO_SSL_DATA_OUT:
          text = "=> Send SSL data";
         break;
         case CURLINFO HEADER IN:
          text = "<= Recv header";
          break;
         case CURLINFO_DATA_IN:
          text = "<= Recv data";
         break;
         case CURLINFO_SSL_DATA_IN:
          text = "<= Recv SSL data";
         break;
         dump(text, stderr, (unsigned char *)data, size);
        return 0;
       int main(void)
         CURL *curl;
        CURLcode res;
         curl = curl_easy_init();
         if(curl) {
          curl_easy_setopt(curl, CURLOPT_DEBUGFUNCTION, my_trace);
          /* the DEBUGFUNCTION has no effect until we enable VERBOSE */
          curl_easy_setopt(curl, CURLOPT_VERBOSE, 1L);
          /* example.com is redirected, so we tell libcurl to follow redirection */
          curl_easy_setopt(curl, CURLOPT_FOLLOWLOCATION, 1L);
          curl_easy_setopt(curl, CURLOPT_URL, "http://example.com/");
          res = curl_easy_perform(curl);
          /* Check for errors */
          if(res != CURLE OK)
           fprintf(stderr, "curl_easy_perform() failed: %s0,
               curl_easy_strerror(res));
          /* always cleanup */
          curl_easy_cleanup(curl);
        return 0;
AVAILABILITY
       Always
RETURN VALUE
       Returns CURLE_OK
SEE ALSO
       CURLOPT_VERBOSE(3), CURLOPT_DEBUGDATA(3),
```