New issue

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double free in update_read_cache_bitmap_v3_order #6013

OCLOSED hac425xxx opened this issue on Mar 31, 2020 ⋅ 2 comments

Labels fixed-waiting-test

Milestone \$\displays 2.0.0\$

```
hac425xxx commented on Mar 31, 2020
version
  update_read_cache_bitmap_v3_order first read new_len from stream, and pass the new_len to realloc
Then it could call realloc(bitmapData->data, 0), this could free bitmapData->data, and return NULL
realloc function source code
   void *__libc_realloc(void *oldmem, size_t bytes)
    if (bytes == 0 && oldmem != NULL) \ //\ if bytes =0, it could free(oldmem).
       __libc_free(oldmem);
when new_data is NULL, it could call free_cache_bitmap_v3_order to free bitmapData->data again.
Double Free!
function code.
  static CACHE_BITMAP_V3_ORDER* update_read_cache_bitmap_v3_order
         Stream_Read_UINT32(s, new_len); // if new_len = 0
         \label{lem:condition} \mbox{if (Stream\_GetRemainingLength(s) < new\_len)} \ \ //pass \ \mbox{this check}
          new_data = (BYTE*)realloc(bitmapData->data, new_len); // realloc could free bitmapData->data
         if (!new_data) // new_data could be NULL
    goto fail;
  fail:
          free_cache_bitmap_v3_order(update->context, cache_bitmap_v3); // free bitmapData->data again.
          return NULL:
```

```
hac425xxx commented on Mar 31, 2020

code to test realloc action

#include<stdlib.h>

int main()
{
    char* p = malloc(0x30);
    char* x = realloc(p, 0);
    printf("x:%x\n", x);
    free(p);
    return 0;
}
```

- A akallabeth added this to the 2.0.0 milestone on Mar 31, 2020
- akallabeth added the fixed-waiting-test label on Apr 2, 2020

(⊙ Closed)
carnil commented on May 8, 2020
CVE-2020-11044 was assigned for this issue.
Assignees
No one assigned
abels
fixed-waiting-test
Projects
None yet
dilestone
2.0.0
Development

bmiklautz mentioned this issue on May 6, 2020

No branches or pull requests

3 participants

could you please request some cve for issue 6005~6013 #6027