





 $above shows, the offending call happens from \ https://github.com/blueness/sthttpd/blob/master/src/libhttpd.c\#L2406 above shows, the offending call happens from https://github.com/blueness/sthttpd/blob/master/src/libhttpd.c#L2406 above shows above sh$

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Potential memory corruption/crash due to overlapping strcpy arguments #14

⊙ Open) jasperla opened this issue on Jan 26, 2021 · 1 comment

jasperla commented on Jan 26, 2021 When building sthttpd with ASAN (-fsanitize=address) I noticed a number of crashes with trivial requests such as the following: GET //../HTTP/1.1\r\n\r\n The problem is most visible on systems where strepy is implemented using memcpy (e.g. GLIBC and macOS), here we end up with memcpy on overlapping memory ranges: % ./thttpd.asan -p 8080 -d www -D -1 -==3926288==ERROR: AddressSanitizer: strcpy-param-overlap: memory ranges [0x611000000180,0x611000000189) and [0x611000000184, 0x61100000018d) overlap #0 0x4850ba in strcpy (/home/jasper/sthttpd/thttpd.asan+0x4850ba)
#1 0x4d5532 in de_dotdot /home/jasper/sthttpd/src/libhttpd.c:2425:9 #2 0x4d3961 in httpd_parse_request /home/jasper/sthttpd/src/libhttpd.c:2040:5
#3 0x4cce31 in handle_read /home/jasper/sthttpd/src/thttpd.c:1646:10 #4 0x4c9fa0 in main /home/jasper/sthttpd/src/thttpd.c:809:26 #5 0x7f7c99f75d09 in _libc_start_main csu/../csu/libc-start.c:308:16 #6 0x41f569 in _start (/home/jasper/sthttpd/thttpd.asan+0x41f569) 0x611000000180 is located 0 bytes inside of 201-byte region [0x611000000180,0x611000000249) oxoliopopopolo is located o bytes inside or 201-byte region [exclipopopolo], exc. allocated by thread T0 here:

#0 0x4995dd in malloc (/home/jasper/sthtpd/thtpd.asan+0x4995dd)
#1 0x4d162e in httpd./realloc_str /home/jasper/sthttpd/src/thttpd.c:701:10
#2 0x4cc400 in handle_newconnect /home/jasper/sthttpd/src/thttpd.c:1550:11 0x611000000184 is located 4 bytes inside of 201-byte region [0x611000000180,0x611000000249) #0 0x4995dd in malloc (/home/jasper/sthttpd/thttpd.asan+0x4995dd)
#1 0x4d162e in httpd_realloc_str /home/jasper/sthttpd/src/libhttpd.c:701:10 #2 0x4cc4e0 in handle_newconnect /home/jasper/sthttpd/src/thttpd.c:1550:11 SUMMARY: AddressSanitizer: strcpy-param-overlap (/home/jasper/sthttpd/thttpd.asan+0x4850ba) in strcpy ==3926288==ABORTING Regardless of whether the server crashes, the behaviour of stropy with overlapping source and destination is warned against in the manpage as the resulting behaviour is undefined. As the trace

jusperiu commented on res o, 2021	(100000
This was assigned CVE-2021-26843.	
Assignees	
No one assigned	
Labels	
None yet	
Projects	
None yet	
Milestone	
No milestone	
Development	
No branches or pull requests	

1 participant

