

# MariaDB server crash in Field::set default -ASAN use after free in Item\_args::walk\_arg

#### Details

Type: Bug

Status: **CLOSED** (View Workflow)

Priority: Critical Resolution: Duplicate

Affects Version/s: 10.5.13, 10.6.5, 10.2, 10.3, 10.4

Fix Version/s: N/A Component/s: N/A (crash) Labels: Linux x64

## Description

**Environment:** 

## step to reproduce:

CREATE TEMPORARY TABLE v0 ( v2 LONG VARBINARY DEFAULT ( USER ( ) REGEXP 'x' IS NULL INSERT IGNORE INTO v0 VALUES ( v1 , 'x' , ( CONVERT ( v2 \* ( 47347653.000000 - v1 ) ALTER TABLE v0 CONVERT TO CHARSET BINARY; INSERT HIGH PRIORITY INTO v0 SELECT \* FROM v0 USE INDEX FOR JOIN ( ) GROUP BY v1 , INSERT INTO v0 SELECT SQL\_CALC\_FOUND\_ROWS \* FROM v0 WHERE v2 SOUNDS LIKE CURRENT\_US

## asan report:

Version: '10.6.5-MariaDB' socket: '/tmp/mysql\_mar.sock' port: 3309 Source distribution

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==1434754==ERROR: AddressSanitizer: use-after-poison on address 0x62b00007aec8 at pc

0x55bf6a845200 bp 0x7fd6c0eb93c0 sp 0x7fd6c0eb93b0

READ of size 8 at 0x62b00007aec8 thread T23

#0 0x55bf6a8451ff in Item\_args::walk\_args(bool (Item::)(void), bool, void\*)

MariaDB/server/sql/item.h:2742

#1 0x55bf6a8451ff in Item\_func\_or\_sum::walk(bool (Item::)(void), bool, void\*)

MariaDB/server/sql/item.h:5434

#2 0x55bf6a8450e1 in Item\_args::walk\_args(bool (Item::)(void), bool, void\*)

MariaDB/server/sql/item.h:2742

#3 0x55bf6a8450e1 in Item\_func\_or\_sum::walk(bool (Item::)(void), bool, void\*)

MariaDB/server/sql/item.h:5434

#4 0x55bf6a8450e1 in Item args::walk args(bool (Item::)(void), bool, void\*)

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MariaDB/server/sql/item.h:2742
#5 0x55bf6a8450e1 in Item_func_or_sum::walk(bool (Item::)(void), bool, void*)
MariaDB/server/sql/item.h:5434
#6 0x55bf6a8450e1 in Item_args::walk_args(bool (Item::)(void), bool, void*)
MariaDB/server/sql/item.h:2742
#7 0x55bf6a8450e1 in Item_func_or_sum::walk(bool (Item::)(void), bool, void*)
MariaDB/server/sql/item.h:5434
#8 0x55bf6ad6beb9 in fix_session_vcol_expr(THD*, Virtual_column_info*)
MariaDB/server/sql/table.cc:3614
#9 0x55bf6ad6beb9 in fix_session_vcol_expr(THD*, Virtual_column_info*)
MariaDB/server/sql/table.cc:3608
#10 0x55bf6a7c973e in TABLE::fix_vcol_exprs(THD*) MariaDB/server/sql/sql_base.cc:5434
#11 0x55bf6a7c973e in TABLE::fix_vcol_exprs(THD*) MariaDB/server/sql/sql_base.cc:5426
#12 0x55bf6a7ca468 in fix_all_session_vcol_exprs MariaDB/server/sql/sql_base.cc:5465
#13 0x55bf6a7ca468 in lock_tables(THD*, TABLE_LIST*, unsigned int, unsigned int)
MariaDB/server/sql/sql_base.cc:5649
#14 0x55bf6a7d0ba2 in open_and_lock_tables(THD*, DDL_options_st const&, TABLE_LIST*, bool, unsigned
int, Prelocking_strategy*) MariaDB/server/sql/sql_base.cc:5261
#15 0x55bf6a9baf70 in open_and_lock_tables(THD*, TABLE_LIST*, bool, unsigned int)
MariaDB/server/sql/sql_base.h:509
#16 0x55bf6a9a8388 in mysql_execute_command(THD*, bool) MariaDB/server/sql/sql_parse.cc:4649
#17 0x55bf6a966684 in mysql_parse(THD*, char*, unsigned int, Parser_state*)
MariaDB/server/sql/sql parse.cc:8030
#18 0x55bf6a99c0b3 in dispatch command(enum server command, THD*, char*, unsigned int, bool)
MariaDB/server/sql/sql parse.cc:1896
#19 0x55bf6a9a1513 in do_command(THD*, bool) MariaDB/server/sql/sql_parse.cc:1404
#20 0x55bf6ae636fc in do_handle_one_connection(CONNECT*, bool)
MariaDB/server/sql/sql_connect.cc:1418
#21 0x55bf6ae64e56 in handle_one_connection MariaDB/server/sql/sql_connect.cc:1312
#22 0x55bf6bcb0d2f in pfs spawn thread MariaDB/server/storage/perfschema/pfs.cc:2201
#23 0x7fd6e0503608 in start thread /build/glibc-ZN95T4/glibc-2.31/nptl/pthread create.c:477
#24 0x7fd6e00d7292 in clone (/lib/x86 64-linux-gnu/libc.so.6+0x122292)
0x62b00007aec8 is located 15560 bytes inside of 24624-byte region [0x62b000077200,0x62b00007d230)
allocated by thread T23 here:
#0 0x7fd6e0a8ebc8 in malloc (/lib/x86 64-linux-gnu/libasan.so.5+0x10dbc8)
#1 0x55bf6c83cc1c in my_malloc MariaDB/server/mysys/my_malloc.c:90
#2 0x55bf6c8238c8 in reset_root_defaults MariaDB/server/mysys/my_alloc.c:148
#3 0x55bf6a813773 in THD::init_for_queries() MariaDB/server/sql/sql_class.cc:1406
#4 0x55bf6ae611ea in prepare_new_connection_state(THD*) MariaDB/server/sql/sql_connect.cc:1240
#5 0x55bf6ae61efa in thd prepare connection(THD*) MariaDB/server/sql/sql connect.cc:1333
#6 0x55bf6ae61efa in thd prepare connection(THD*) MariaDB/server/sql/sql connect.cc:1322
#7 0x55bf6ae63663 in do_handle_one_connection(CONNECT*, bool)
MariaDB/server/sql/sql_connect.cc:1408
#8 0x55bf6ae64e56 in handle_one_connection MariaDB/server/sql/sql_connect.cc:1312
#9 0x55bf6bcb0d2f in pfs_spawn_thread MariaDB/server/storage/perfschema/pfs.cc:2201
#10 0x7fd6e0503608 in start_thread /build/glibc-ZN95T4/glibc-2.31/nptl/pthread_create.c:477
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Thread T23 created by T0 here:
```

#0 0x7fd6e09bb805 in pthread\_create (/lib/x86\_64-linux-gnu/libasan.so.5+0x3a805)

#1 0x55bf6bcb0fe2 in my\_thread\_create MariaDB/server/storage/perfschema/my\_thread.h:48

#2 0x55bf6bcb0fe2 in pfs\_spawn\_thread\_v1 MariaDB/server/storage/perfschema/pfs.cc:2252

#3 0x55bf6a635b48 in inline\_mysql\_thread\_create

MariaDB/server/include/mysql/psi/mysql\_thread.h:1139

#4 0x55bf6a635b48 in create\_thread\_to\_handle\_connection(CONNECT\*)

MariaDB/server/sql/mysqld.cc:5922

#5 0x55bf6a645235 in handle\_accepted\_socket(st\_mysql\_socket, st\_mysql\_socket)

MariaDB/server/sql/mysqld.cc:6043

#6 0x55bf6a64600e in handle\_connections\_sockets() MariaDB/server/sql/mysqld.cc:6167

#7 0x55bf6a64819b in mysqld\_main(int, char\*\*) MariaDB/server/sql/mysqld.cc:5817

#8 0x7fd6dffdc0b2 in \_\_libc\_start\_main (/lib/x86\_64-linux-gnu/libc.so.6+0x270b2)

SUMMARY: AddressSanitizer: use-after-poison MariaDB/server/sql/item.h:2742 in

ltem\_args::walk\_args(bool (ltem::)(void), bool, void\*)

Shadow bytes around the buggy address:

Shadow byte legend (one shadow byte represents 8 application bytes):

Addressable: 00

Partially addressable: 01 02 03 04 05 06 07

Heap left redzone: fa Freed heap region: fd Stack left redzone: f1 Stack mid redzone: f2 Stack right redzone: f3 Stack after return: f5 Stack use after scope: f8 Global redzone: f9

Global redzone: f9 Global init order: f6 Poisoned by user: f7 Container overflow: fc Array cookie: ac

Intra object redzone: bb

ASan internal: fe

Left alloca redzone: ca Right alloca redzone: cb

#### ✓ Issue Links

## duplicates

MDEV-26437 Server crashes in Item\_args::walk\_args



**CLOSED** 

1

#### links to



## Activity

▼ 1 Daniel Black added a comment - 2021-08-13 08:28

Confirmed:

### 10.5.13-0268b871228-debug

2021-08-13 18:25:34 0 [Note] /home/dan/repos/build-mariadb-server-10.5-asa Version: '10.5.13-MariaDB-debug' socket: '/tmp/build-mariadb-server-10.5-[New Thread 0x7fffccf80640 (LWP 791170)]

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==791142==ERROR: AddressSanitizer: use-after-poison on address 0x62b0000a5 READ of size 8 at 0x62b0000a5188 thread T25

[Detaching after fork from child process 791183]

#1 0xad8424 in Item\_func\_or\_sum::walk(bool (Item::\*)(void\*), bool, voi
#2 0xadb2f9 in Item\_args::walk\_args(bool (Item::\*)(void\*), bool, void\*
#3 0xad8424 in Item\_func\_or\_sum::walk(bool (Item::\*)(void\*), bool, voi

#0 0xadb2ac in Item\_args::walk\_args(bool (Item::\*)(void\*), bool, void\*

#4 0xadb2f9 in Item\_args::walk\_args(bool (Item::\*)(void\*), bool, void\* #5 0xad8424 in Item\_func\_or\_sum::walk(bool (Item::\*)(void\*), bool, voi

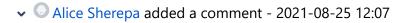
#6 Oxadb2f9 in Item\_args::walk\_args(bool (Item::\*)(void\*), bool, void\*

#7 0xad8424 in Item\_func\_or\_sum::walk(bool (Item::\*)(void\*), bool, voi

## 0x10ch223 in fix session yeal expr(THD\* Virtual column info\*) /hom

#8 0x10cb223 in fix\_session\_vcol\_expr(THD\*, Virtual\_column\_info\*) /hom #9 0xaab9a9 in TABLE::fix\_vcol\_exprs(THD\*) /home/dan/repos/mariadb-ser

#10 0xaac572 in fix all session vcol exprs(THD\*. TABLE LIST\*) /home/da



Thanks!

This is the same bug as MDEV-26437

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