

## Klever - Feature #8664

### Refactor relating build commands

01/15/2018 11:31 AM - Evgeny Novikov

<b>Status:</b>	Rejected	<b>Start date:</b>	01/15/2018
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Program fragments generation	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.0		
<b>Published in build:</b>			

#### Description

Sometimes LKVOG fails with error messages like this:

```
[AVODG1] Raise exception:
Traceback (most recent call last):
  File "/home/debian/klever/core/core/components.py", line 413, in run
    self.main()
  File "/home/debian/klever/core/core/components.py", line 320, in callbacks_caller
    ret = attr(*args, **kwargs)
  File "/home/debian/klever/core/core/components.py", line 318, in callbacks_caller
    ret = attr(*args[1:], **kwargs)
  File "/home/debian/klever/core/core/lkvog/__init__.py", line 287, in generate_all_verification_o
bj_descs
    self.generate_verification_obj_desc()
  File "/home/debian/klever/core/core/components.py", line 320, in callbacks_caller
    ret = attr(*args, **kwargs)
  File "/home/debian/klever/core/core/lkvog/__init__.py", line 319, in generate_verification_obj_d
esc
    cc_full_desc_files = self.__find_cc_full_desc_files(module.id)
  File "/home/debian/klever/core/core/lkvog/__init__.py", line 458, in __find_cc_full_desc_files
    cc_full_desc_files.extend(self.__find_cc_full_desc_files(in_file))
  File "/home/debian/klever/core/core/lkvog/__init__.py", line 444, in __find_cc_full_desc_files
    out_file_desc = self.linux_kernel_build_cmd_out_file_desc[out_file][-1]
  File "<string>", line 2, in __getitem__
  File "/usr/lib/python3.5/multiprocessing/managers.py", line 732, in _callmethod
    raise convert_to_error(kind, result)
KeyError: 'drivers/hid/.tmp_hid-gyration.o'
```

First of all I suppose to avoid treating such the errors as critical ones since often just a couple of verification objects couldn't be generated while thousands ones could be. Later we will be able to create notes for these warnings to attract user attention ([#8529](#)).

Also, such error messages provide very little information for following debugging. So, it can take much additional time to identify corresponding issues. I suppose to at least show in error messages some information on all build commands participating in failed generation of verification objects. For instance, generate verification object *drivers/hid/hid-gyration.ko*, find out CC build commands for *drivers/hid/hid-gyration.o* and so on. Besides, it would be great to remember and to show all other build command consumers. For instance, CC build commands for *drivers/hid/hid-gyration.o* were found out earlier when generating verification object *drivers/hid/hid.ko*.

#### Related issues:

Related to Klever - Bug #8606: Could not find build command description for d...	<b>Closed</b>	<b>11/28/2017</b>
Related to Klever - Bug #8258: LKVOG crash on module 'drivers/misc/lkdtm.ko'	<b>Closed</b>	<b>06/23/2017</b>
Related to Klever - Bug #8666: Acquire locks when dealing when build commands...	<b>Closed</b>	<b>01/15/2018</b>
Related to Klever - Feature #8529: Support notices	<b>New</b>	<b>10/25/2017</b>
Related to Klever - Feature #9290: Respect warnings issued by Clade	<b>New</b>	<b>09/28/2018</b>

#### History

#1 - 01/15/2018 11:31 AM - Evgeny Novikov

- Related to Bug #8606: Could not find build command description for *drivers/extcon/extcon-core.o* of Linux 4.9.65 added

**#2 - 01/15/2018 11:31 AM - Evgeny Novikov**

- Related to Bug #8258: LKVOG crash on module 'drivers/misc/lkdtm.ko' added

**#3 - 01/15/2018 12:05 PM - Evgeny Novikov**

- Related to Bug #8666: Acquire locks when dealing when build commands cache added

**#4 - 02/02/2018 03:17 PM - Alexey Polushkin**

- Status changed from New to Resolved

Resolved in branch 'cc\_file\_warning'

**#5 - 07/03/2018 11:23 AM - Evgeny Novikov**

- Target version changed from 2.0 to 1.1

This issue is not strictly bound with purposes of [2.0](#) that targets verification of C software.

**#6 - 07/20/2018 12:13 PM - Evgeny Novikov**

- Related to Feature #8529: Support notices added

**#7 - 08/06/2018 02:54 PM - Evgeny Novikov**

- Target version changed from 1.1 to 2.0

- Assignee changed from Alexey Polushkin to Ilja Zakharov

- Status changed from Resolved to Open

There is little sense to review, to test and to merge this branch to master as for Klever [2.0](#) corresponding parts of LKVOG will be changed very considerably while it still has sense to change them as required by this issue.

**#8 - 09/28/2018 02:24 PM - Evgeny Novikov**

- Assignee deleted (Ilja Zakharov)

- Status changed from Open to Rejected

We discussed that this issue should be done in underlying tool Clade that relates build commands at the moment.

**#9 - 09/28/2018 02:57 PM - Evgeny Novikov**

- Related to Feature #9290: Respect warnings issued by Clade added