

Klever - Bug #8602

OSError: [Errno 39] Directory not empty

11/28/2017 09:56 AM - Evgeny Novikov

Status:	Closed	Start date:	11/28/2017
Priority:	Immediate	Due date:	
Assignee:	Ilja Zakharov	% Done:	0%
Category:	Tasks generation	Estimated time:	0.00 hour
Target version:	1.0	Published in build:	
Detected in build:	svn		
Platform:			

Description

New VTG removes plugin working directories when they finish in the production mode, namely, when option "keep intermediate files" is false. This helps to considerably reduce the required disk space, but sometimes fails with errors like:

```
[AAVTDG0] 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/vtg/__init__.py", line 525, in __generate_all_abstract_verification_task_descs
    shutil.rmtree(os.path.join(vobject, rule))
  File "/usr/lib/python3.5/shutil.py", line 484, in rmtree
    onerror(os.rmdir, path, sys.exc_info())
  File "/usr/lib/python3.5/shutil.py", line 482, in rmtree
    os.rmdir(path)
OSError: [Errno 39] Directory not empty: 'drivers//char/tpm/tpm_tis_spi.ko/generic:memory'
[VTGWL1] Stop since some other component(s) likely failed
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/vtg/__init__.py", line 336, in generate_verification_tasks
    self.launch_subcomponents(False, *subcomponents)
  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 556, in launch_subcomponents
    launch_workers(self.logger, subcomponent_processes)
  File "/home/debian/klever/core/core/components.py", line 196, in launch_workers
    p.join(1.0 / len(workers))
  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 521, in join
    raise ComponentError('Component "{0}" failed'.format(self.name))
core.components.ComponentError: Component "AAVTDG0" failed
```

It seems that all quite large verification jobs suffer from this issue, so it should be fixed ASAP.

Related issues:

Related to Klever - Feature #8086: Remove all files when it becomes clear tha...

Closed

04/18/2017

History

#1 - 11/30/2017 02:53 PM - Ilja Zakharov

- Status changed from New to Resolved

Implemented in 8602-del-dirs.

#2 - 12/03/2017 03:54 PM - Evgeny Novikov

- Status changed from Resolved to Closed

I hope that this issue has gone and merged the branch to master in [f3b0b4de](#).

#3 - 12/07/2017 01:04 AM - Evgeny Novikov

- Status changed from Closed to Open

Unfortunately the issue still exists:

```
[AAVTDG0] 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/vtg/__init__.py", line 540, in __generate_all_abstract_verification_task_descs
    shutil.rmtree(deldir)
  File "/usr/lib/python3.5/shutil.py", line 484, in rmtree
    onerror(os.rmdir, path, sys.exc_info())
  File "/usr/lib/python3.5/shutil.py", line 482, in rmtree
    os.rmdir(path)
OSError: [Errno 39] Directory not empty: 'drivers/hwmon/pmbus/pmbus_core.ko/linux:arch:io'
[VTGWL1] Stop since some other component(s) likely failed
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/vtg/__init__.py", line 338, in generate_verification_tasks
    self.launch_subcomponents(False, *subcomponents)
  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 556, in launch_subcomponents
    launch_workers(self.logger, subcomponent_processes)
  File "/home/debian/klever/core/core/components.py", line 196, in launch_workers
    p.join(1.0 / len(workers))
  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 521, in join
    raise ComponentError('Component "{0}" failed'.format(self.name))
core.components.ComponentError: Component "AAVTDG0" failed
```

#4 - 12/07/2017 02:46 PM - Ilja Zakharov

Another iteration of fixing: 8602-del-dirs.

Tests are still running and will finish tomorrow evening. However, I still was not able to reproduce the error occurred after the last fix even solving jobs with solution time more than 20 hours.

#5 - 12/07/2017 04:04 PM - Alexey Khoroshilov

Ilja Zakharov wrote:

Another iteration of fixing: 8602-del-dirs.

Tests are still running and will finish tomorrow evening. However, I still was not able to reproduce the error occurred after the last fix even solving jobs with solution time more than 20 hours.

After 10 hours I have got:

```
OSError: [Errno 39] Directory not empty: 'net/sctp/sctp_probe.ko/linux:drivers:clk2'
while similar tasks on another machine still works for 16 hours.
Klever 0.3.dev211+gf3b0b4de
```

#6 - 12/11/2017 01:24 PM - Ilja Zakharov

There are two reasons that lead to either corruption or failing runs. In particular the recent my change allows to avoid failures but do not prevent corruption status but with 100% tasks solved.

The first reason is incorrect work of general coverage collector:

[JCR] 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/job.py", line 557, in collect_total_coverage
os.path.join('total coverages', re.sub(r'/', '-', job_id)))

File "/home/debian/klever/core/core/utills.py", line 463, in report
elem.make_archive(directory=os.path.join(main_work_dir, 'reports'), prefix='{0}'.format(cur_report_id))

File "/home/debian/klever/core/core/utills.py", line 408, in make_archive
zfp.write(file, arcname=arcname)

File "/usr/lib/python3.5/zipfile.py", line 1435, in write
st = os.stat(filename)

FileNotFoundError: [Errno 2] No such file or directory:

'/var/lib/klever/work/native-scheduler/scheduler/jobs/65f7a8ee6dd5504699daf163e2a38fd8/klever-core-work-dir/job/vtg/drivers/tty/rocket.ko76d0b8a4c5c8/generic:memory/weaver/.tmp_timer.c.aux'

Traceback (most recent call last):

File "/home/debian/klever/core/core/core.py", line 81, in main
core.job.start_jobs(self, {'build': multiprocessing.Manager().Lock()}, {'report id': self.report_id})

File "/home/debian/klever/core/core/job.py", line 121, in start_jobs
subcomponent.join()

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 521, in join
raise ComponentError("Component \"{0}\" failed".format(self.name))

core.components.ComponentError: Component "JCR" failed

The second is report loading failure:

[08.Dec.2017 22:51:43] The archive "108912-vjmbmeh6.zip" of report "/-/VTG/drivers/usb/serial/metro-usb.ko/linux:drivers:clk2/VTGW/Weaver" is not a ZIP file

Traceback (most recent call last):

File "/var/www/klever-bridge/reports/UploadReport.py", line 66, in *init*
self.__check_archives(self.data['id'])

File "/var/www/klever-bridge/reports/UploadReport.py", line 727, in __check_archives
raise CheckArchiveError("The archive \"%s\" of report \"%s\" is not a ZIP file" % (arch.name, report_id))

reports.UploadReport.CheckArchiveError: The archive "108912-vjmbmeh6.zip" of report "/-/VTG/drivers/usb/serial/metro-usb.ko/linux:drivers:clk2/VTGW/Weaver" is not a ZIP file

As a summary, it is better to fix both issues in [#8086](#), since it also modifies the implementation of general coverage collection and improves deletion of files.

#7 - 12/11/2017 01:25 PM - Ilja Zakharov

- Related to Feature [#8086](#): Remove all files when it becomes clear that they won't be used anymore added

#8 - 12/11/2017 02:34 PM - Ilja Zakharov

- Related to deleted (Feature [#8086](#): Remove all files when it becomes clear that they won't be used anymore)

#9 - 12/11/2017 02:34 PM - Ilja Zakharov

- Blocked by Feature [#8086](#): Remove all files when it becomes clear that they won't be used anymore added

#10 - 12/11/2017 02:57 PM - Ilja Zakharov

- Status changed from Open to Resolved

There is a fix in [8602-del-dirs](#) that should ensure jobs solution, however, a complete fix will be in [#8086](#).

#11 - 12/11/2017 03:43 PM - Evgeny Novikov

- Blocked by deleted (Feature [#8086](#): Remove all files when it becomes clear that they won't be used anymore)

#12 - 12/11/2017 03:43 PM - Evgeny Novikov

- Related to Feature [#8086](#): Remove all files when it becomes clear that they won't be used anymore added

#13 - 12/11/2017 03:49 PM - Evgeny Novikov

- Status changed from Resolved to Closed

I hope that the suggested fix will help, so I merged the branch to master in [eb8dee3d](#).

#14 - 12/26/2017 02:54 PM - Evgeny Novikov

- *Status changed from Closed to Resolved*

One more fix of a data race is available in branch *rm-fix*.

#15 - 12/26/2017 03:04 PM - Evgeny Novikov

- *Status changed from Resolved to Closed*

I merged the branch to master in [561ccab](#).