GNOME and Blockchains

Why? What? How?

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Why?



Heisenbugs

- Hard to solve without help from affected users (stacktraces, valgrind logs, etc)
- Even if many users are affected, few are motivated to help

E.g. https://bugzilla.gnome.org/show_bug.cgi?id=783935, https://bugzilla.gnome.org/show_bug.cgi?id=785657

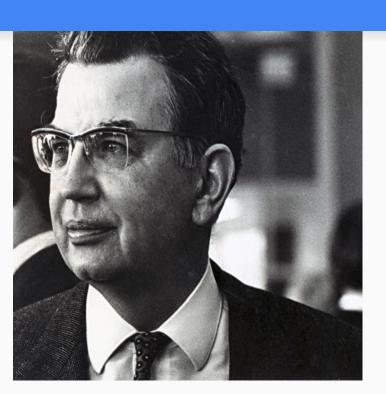
```
Collapse All Comments
 Philip Chimento [reporter] [developer] 2017-06-18 19:59:52 UTC
                                                               Description [reply] [-]
                                                                                     Expand All Comments
From bug 781799:
                                                                                     Add Comment
> Arch Linux
> qis 1.48.4-1
> anome-shell 3.24.2-1
> wayland 1.13.0-1
> js38 38.8.0-3
         Message: Process 852 (gnome-shell) of user 1000 dumped core.
>
                  Stack trace of thread 852:
                  #0 0x00007f4f051f5735 ZN2js9GCMethodsIP8JSObjectE16needsPostBarrierES2 (libgjs.so.0)
                  #1 0x00007f4f0330f8b5 g main context dispatch (libglib-2.0.so.0)
                  #2 0x00007f4f0330fc78 n/a (libglib-2.0.so.0)
                  #3 0x00007f4f0330ff92 g main loop run (libglib-2.0.so.0)
                  #4 0x00007f4f04ad2fdc meta run (libmutter-0.so.0)
                  #5 0x0000000000401ff7 main (gnome-shell)
                  #6 0x00007f4f02d2243a libc start main (libc.so.6)
                  #7 0x0000000000040212a n/a (gnome-shell)
> I got this crash approximately 5-10 minutes after start of gnome session while surfing the web in google-chrome.
Info that would be helpful:
- Backtrace with full debug symbols (source files and lines)
- Is there anything specific that triggers the crash? Any specific browser use?
```

```
<u>Christian Stadelmann</u> 2017-06-19 11:09:50 UTC <u>Comment 1</u> [reply] [-]
```

I don't think I've been running into that crash at all. Thus, I don't have any clue of how to reproduce it.

<u>fedor</u> 2017-06-20 16:47:57 UTC <u>Comment 2</u> [reply] [-]

Created attachment 354111 [details] screen log of gdb stacktrace

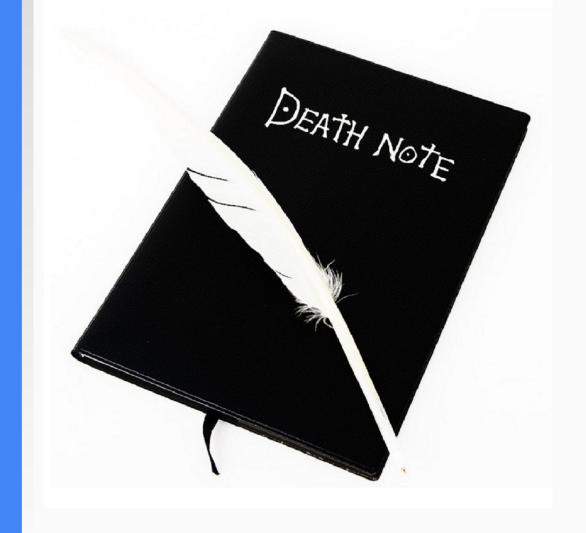


- Going to the market all the time can impose heavy transaction costs. You need to hire workers, negotiate prices and enforce contracts
- A firm is essentially a device for creating long-term contracts when short-term contracts are too bothersome

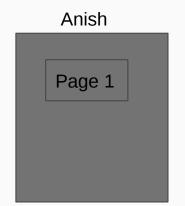
(Sourcehttp://www.economist.com/node/17730360)

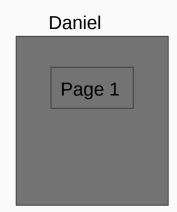
- Not worth the time of a large firm offering OSS development
- No system for directly contacting a developer
- Even harder to reward bug reporters, testers

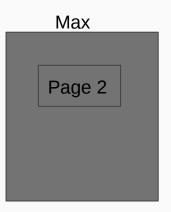
- Affected users could add to bug bounties
- Users could get small payments for providing logs / stacktraces etc
- Developers could be supported to work on such bugs
- Maybe more developers would find the time?



- 1: Person can be killed only once
- 2: Initially it has only one page
- 3: When a person add new page it should be linked to next page
- 4: Death note has 100 pages
- 5: To add new page person rolls the dice and person whoe's dice match the number gets to add new page
- 6: Person who add max number of pages wins the game







Message

'KILL: JOHN DOE: 15 Oct 2017: Heart Attack'



BEYTH NOTE

oThe human whose name is written in this note shall die.

o'This note will not take effect unless the writer has the person's face in their mind when writing his/her name. Therefore, people sharing the same name will not be affected.

of writing the person's name. It will happen.

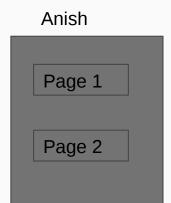
 If the cause of death is not specified, the person will simply die of a heart attack.

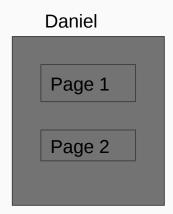
After writing the cause officeth, details of the death should be written in the next 8 minutes and 40 seconds.

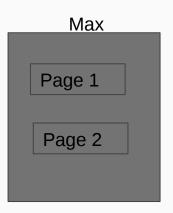








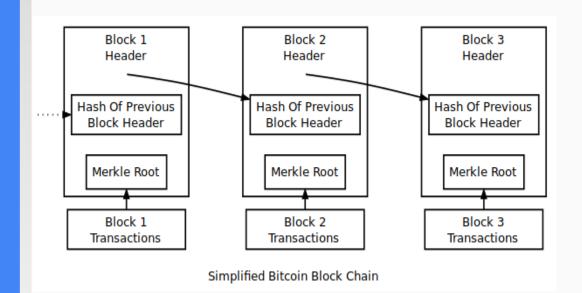


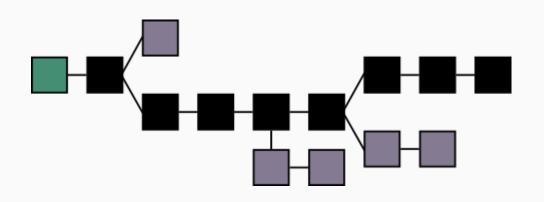


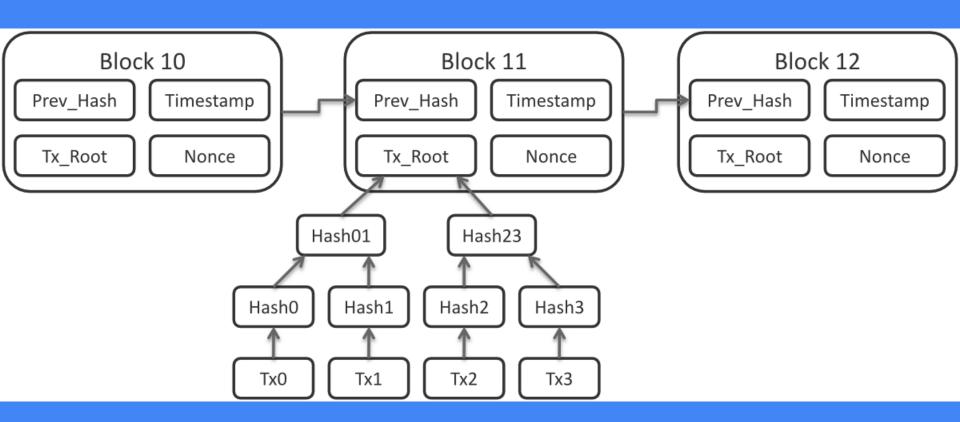
Transactions





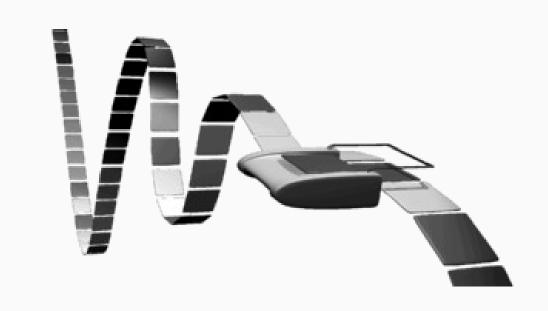






Ethereum?

What if the game was literrally anything?



Smart Contracts

- Currency (lots of them)
- Proof of existence/registration
- Elections
- Bets
- Legal contracts
- Companies/organisations

Bugs and features

- Some bugs are difficult to reproduce (heisenbugs), so help from affected users is necessary
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- Any affected users could contribute to the bounty (even small amounts would be efficient)
- Developers could be rewarded for fixing popular bugs
- Users could be rewarded for collecting useful logs
- No central coordination necessary, no international bank transfers, no paper

Elections

Gnome foundation Board of directors Elections
Voting on Boards decision

