

Le

d Ld e S w:h -s7 -a 9

2) Sork\_percentage -f

With higher percentage the process tree becomes denser and lower percentage with more exits, sparse the process tree.

Like for O.1

Final Process Tree:

like for 0.7 = see number of processes over high since lesser exits more fortss



3) Now can we find the actions from the process trees "-711

a => a forks b a => a forks C

a => bexits a => c exits

al a forks d

4) Child exits, what happens to its children?

I was expecting "b" of most "a" process reparent to Actually using - "R" local parent With - R With orphaned processes it turns out the "init" process one with PID 1 becomes the parent Systemd => It provides a system and service manager that runs as PIDI and starts the rest of the system. Reaping => Cleaning up resources used by a child process after its

terminated, Parent does this
so for orphaned child processes
new parent (PIDI) does it.
When a process exits, it enters a
zombie state until its parent process
retrieves its exit status, made possible
using "weit!" or "weitpid!"
- hemore zombie process from process
- Free up allocated resources

(5) "-F" flag final process tree

6 "-t", "-#"

Actions a fonks b - b forks c - cforks e - b forks de - b forks f Actions a forksb - b fonks c - b forks f - a forks d d forts é lets reduce fork-perculage = 0,3 Actions - or forked booking at "d" you quess that b,c were processes but exited. - You can't know exactly which

parent they had,

lets write anyony
few guesses

- a forks b
- a forks C
- a forks C
- c forks d
- c forks C
- c exits
- c exits
- b exits
- b exits
- a forks d
since d becomes orphan
goes to "init" ("ti)

Honrework (Code)
Code in repo

- (1) Same value of variable in child process. When value of variable changed in child and parent, both have different values due to separaté address space
  - Yes, both can access the file descriptor. Though printing of content moves the file pointer and needs to be reset to read the whole file. Uniting to file adds data from both processes (child & parent)
  - Need to use wait waitpid to ensure deterministic execution. Without it I'm not aware but a search shows potential basically a form of process

Synchronization.	
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