

Shark Reading Group 17/11/23

SOSP: invent something new
w/ process

Michael - Brown isolation

Virtual processes

isolation guarantees checks

determining - IO (not execution)

Don't solve the problem

'Computers are hard to use'

- Better than what came before

- keep track of IO
- shell interface, imperative vs declarative

deterministic IO

space & time - record

point of shell?

- bring in data

- process co-ord.

sherp - PPP

checker for MHC

HTTPS - MITM

SSH - git clones

Debian apt volume - package management

Problem - big data (TBs)

Related Work - proving thing

- Go visor

- HTTP I

HTTP POST - how are they?

Export: - Nir Derivation

- or Rockstar

(or vice versa checker ↔ sherk)

Nir Rockstar - hide the hashes

Nir star - cache equivalence

Shaming - island of sanity

Calcutti

+ Over Nir: imperative

performance

1. Who is doing the sharing

P2P sharing - hosting - centralized repo...

2. who drives versioning

• transparent

• implicit versioning

git & gitlab

stash stash pool

/stash

- forwards execution vs keywords / package management for data

cache

• access control

- meta data vs data

Nix hashes vs binary data hashes

generated - later versioning

IACN

ZFS

Data flow graph

store-access control

- Nix store secret

- vs Nix? data vs code

• but use Nix vs Dev to build binaries

□ SOSP paper evaluation

• CPU memory scheduler

• stream

pipeline - HPC

Eden precision vs non-precision data...