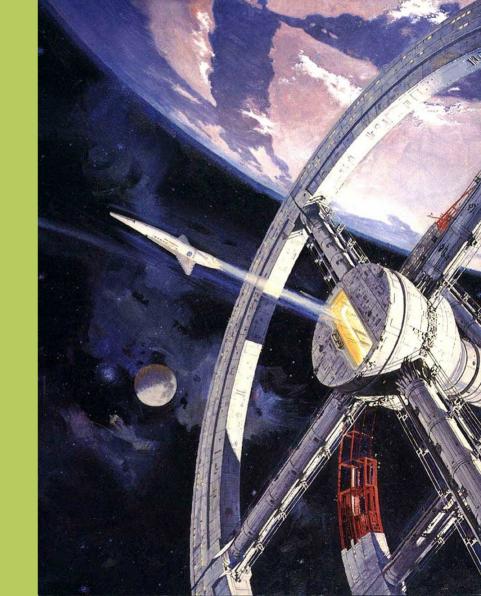
Encode x Urbit Hackathon 2022

Urbit as a Platform

NE Davis ~lagrev-nocfep



*Cryptographic identity (Urbit ID/Azimuth)

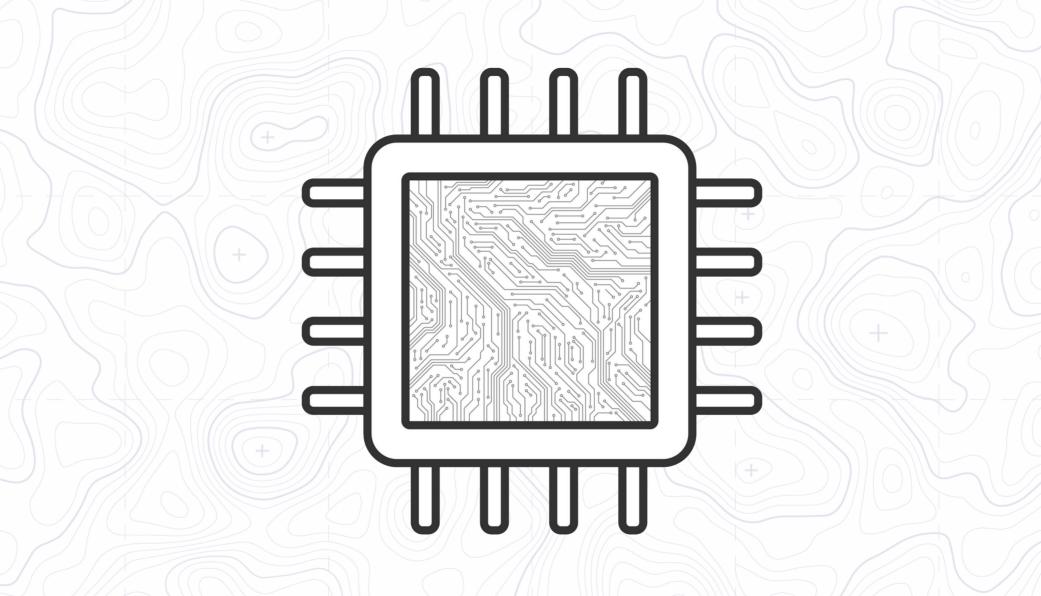
- *Cryptographic identity (Urbit ID/Azimuth)

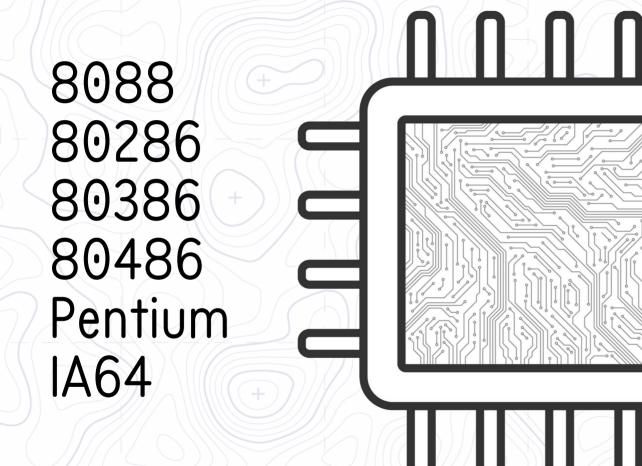
 *Associated off chain state as persistent
- *Associated off-chain state as persistent database (Urbit OS/Arvo)

- *Cryptographic identity (Urbit ID/Azimuth)
- *Associated off-chain state as persistent database (Urbit OS/Arvo)
- *Peer-to-peer, end-to-end-encrypted
 apps

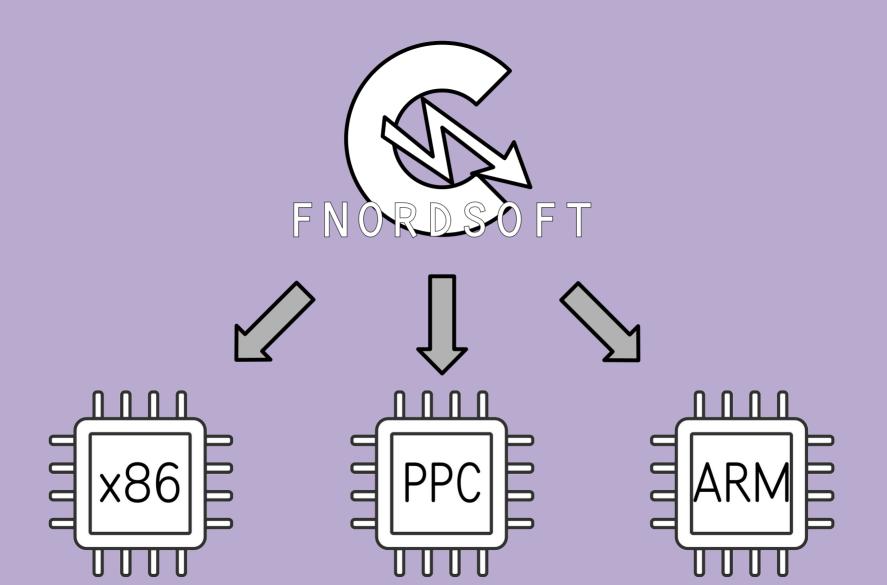
- *Cryptographic identity (Urbit ID/Azimuth)
- *Associated off-chain state as persistent database (Urbit OS/Arvo)
- *Peer-to-peer, end-to-end-encrypted apps
- Direct software distribution

- *Cryptographic identity (Urbit ID/Azimuth)
- *Associated off-chain state as persistent database (Urbit OS/Arvo)
- *Peer-to-peer, end-to-end-encrypted apps
- *Direct software distribution
- *HTTP interface

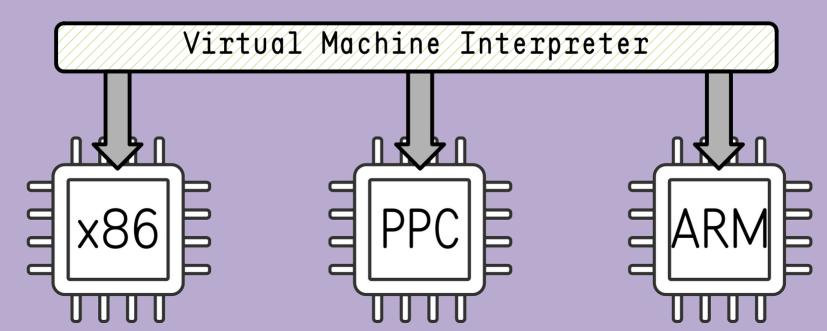




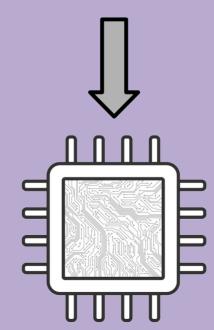
x86-64 ARM64 **SPARC** Cell BE PowerPC Apple M1

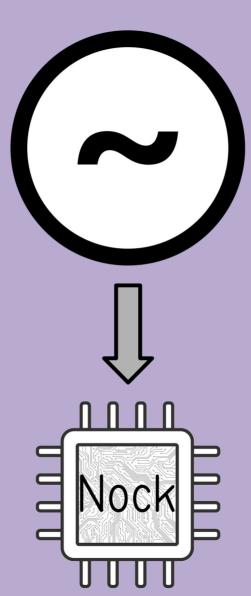


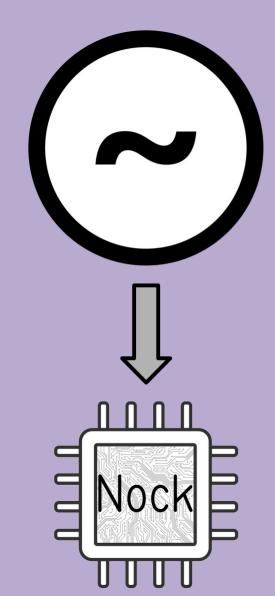




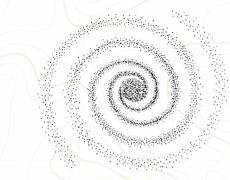


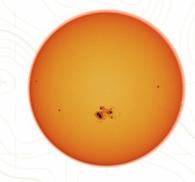






```
*[a [b c] d]
                           [*[a b c] *[a d]]
    0 b]
                           /[b a]
*[a 1 b]
*[a 2 b c]
*[a 3 b]
*[a 4 b]
*[a 5 b c]
                           *[*[a b] *[a c]]
                           ;<u>[a p]</u>
                           +*[a b]
                           =[*[a b] *[a c]]
                           *[a *[[c d] 0 *[[2 3] 0 *[a 4 4 b]]]]
    6 b c d]
    7 b c]
                           *[*[a b]
                                    [ c]
    8 b c]
9 b c]
                            *[*[a c] 2 [0 1] 0 b]
#[b *[a c] *[a d]]
*[a 10 [b c] d]
*[a 11 [b c] d]
                           *[[*[a c] *[a d]] 0 3]
*[a c]
*[a 11 b c]
* a
                             * a
```









Galaxy

- Network governance
- Software updates
- *First-time routing

Star

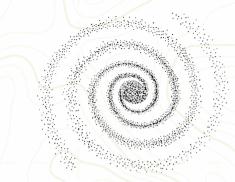
- Network routing (someday)
- *Infrastructure

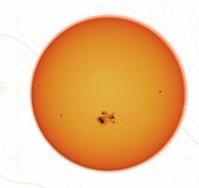
Planet

*Individual identity

Comet

* Transient ID









Galaxy

*~Z0d

Star

*~marbud

Planet

*~sampel-palnet

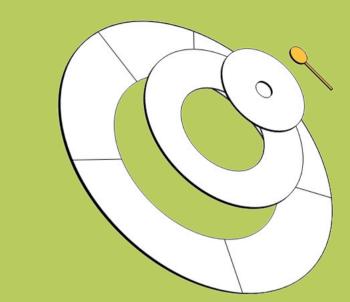
Comet

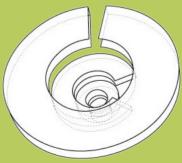
* ~sibtyv-sivnux-ropnul-fodten--fasnec-parlyt-wacpeg-litzod

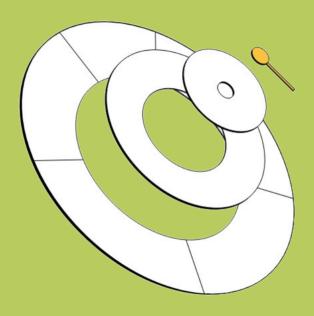
@p "patp"

OS Structure

- Nock VM engine
- *Hoon language
- *Arvo event processor+ state machine
- *System services ("vanes")
- *Userspace apps







Modalities for App Development *On-Urbit app development

- *Urbit-adjacent app development
- *Urbit ID-based project
- *Bridge app to Web3 chains etc.

Modalities for App Development

- On-Urbit app development
 - · Hoon School, App School
- Urbit-adjacent app development
 - * App Workbook, %flap; Urbit Visor
- *Urbit ID-based project
 - * Azimuth docs, Ecliptic smart contracts
- *Bridge app to Web3 chains etc.