TockWorld 7

Userspace Libraries Discussion

· Audience breakdon, ~7070 Capps, ~4070 Rustapps (hove-any)

- Libtack -rs

· Not much activity - perhaps b/c Few public projects

L'initing factor és relocations, make very difficult touse

-> suggest: push For reloc. "in any way possible", even it tochlows, does it?

L'out of the prestion" to use two apps

· Some ARM out reach from Rush cook, answer is "we have reloc." ish

fereighting works ontil dynamic despetal

L possibly could get support if mor ash

-> FD-Pic Arm-specific option, supercet & reads (e.g. shorred libs)

-> low RISK working on e Pic Stender, crawling

· lan we use ger sometions?

L partial impl. exists to call into ger busheal.

· Notwithstanding reloc., conclusion is that listour - a is fine?

[MS hesistation - writing squal binding twice (automation coulder)

- very ord to Capps, no peterns examples

L listoca - c /-rs wrepors look very different

- can "making a lost more like Rext" help?

L scapes issues?

, - embassy/fatures incompatible with or - 15

- no examples of async on l'ibtoir pettorn

- built on Pin abstraction, Identhen has local

test that is sound, but has love or orcheal.

· One effert is to make libtode-15 a "backed" for embassey

for techny, clyus with embedded-hal

- some summer interne working on this

L' Fetures madel does not allow creation of future with

Le.s. printing content of somethy are demands conf

· What is the ber / the objective for libtoez-15 Llibtock-c has guide now Lplus c ethose of let's hack something

· World separate - syne and - asyne impl's help? I probably, but for the arerhead of deplicating low-level driver autogreveretor could alleviate the flour.

- · Cold "sysall. jsou" led to leadle notion, in verspace and bernet?
- · Adding a new driver hard b/c locustop changes needed in herner, -c, -rs; by benner
- · Without control / acts metal, charges don't clarife made it everywere, i.e. Alarm specie

- representative applications "upstream" / open

o TPM & so open some non-trivial eary. to work of upstream Took, but maybe worth it?

· More active involvement in spenSIR

complex HU reg's - They have done a good job of freely releases, but all volunteer time

· Challenge: Gettly 90% to "upstranasti" is there, but lust 10% at small belodges (e.g. openSh pateles ...)

L" is it useful if it is out of deter

· Can we find now " l'ord appilations"

- e.g. soil moister bans, uses on throad rebroat permember

L challenge: Usually requires speelity herdware

· Is there an explicatent to ToDonuc from WebDer?

Breaket Candillates . - syscell. Json - Flagship example (HW+SW)

0 Is listar-re FFI to C reasonable?

- TISP does it
- Works for isolated albrary type, loss clear about a that knows about Toch
- libtoch-os satefy really limits options here

Contrib's & Engagement

- Contrib pain points

· Time Cost

L not sure what you can do for our company to assign more time to upitreamly

I can we as a project provide data etc. to help convince management

· Specificity

Llocal impl solves a problem, but not doesned generce anough (value to upstream)

L (same), time into approvedo etc is vill just be rejusted

I more clairity in what relad of things will be accented

-> Venue or mechanism do discors early plans (pre-pre REC, maybe design doc)

L'Challenge: This becomes extra step that slows downstream development

L Would something more one-way work, not design discussion, but notification

of this is what we are working on

(what exists for Enis now?

LGH, slack, email Avit...

Lno dear answer

(problematic as cor can't see whole plater

we are good at a 24th reply here, BH less so

Lpossibly ended by lower freffic value here.

-> Discord? (or other forum?)

Zulip?

Conversation-based metium effective, but 90 day slack is paintil

- EDGAGEMENT

· How did yell find us?

- Word of mosth in company

- Search lexplaced for 100% Rist OS, Tak one of only aptions

* L decent documentation

L examples can be small

L can get up & running quickly

ofour can we find you?

- We are finding users via word or month

- Ferros Sgs. .. We book cheaptable at by events (trade shors) where likely us one knows you - Low - cont

Venues 27 crickes...

- Hesistant to talk externally in early we

- Tode Hackathon?

L First time many took embedded strems. Similary Rust.

Governance

Structure

- Silence as enthosicstic consent
- Should then be a 'bernel Wb', hard to manage granularity
- Externelly, can be herd to First relevent WG, default to core?
- Focosed With clear conceptual mandate work well
- Core as Fallback not necessarily bad, get controlited sense of unmer demand
- A passive Wt not a bad thing as a nears of establishing dearer, more fine-grained ownership
 - Userland Wes?
- Opentifica is RISC-U?

LA Start with overlapping groups, seen door to eventual split More Focused was lover burner to outrect, easier to ping local wit then worm about bothering all of come? -

FUNDING

Have a lot of internal test infra we already have to one, more overdnessed here not necessarily destroately

- others need clearer corp-see-reg's, but of inferest. MS

Contification (or purherer verrers?)

LoFten case by-case, less about blurles cert-stres can se, but proof of possible that "if you close Tail, cert. is possible

L challenge: C-ortental standards cannot mop to Rust foundation could help push standard changes

L'chailenge: for some companies, certification is the selling point, many find some externelly self-interested parties pushing local

- I challenge: rolling certs, every P.R. requires paperwork about why changes whas lete-
 - -> Eclipse foundation has cert. experience I bad finding experience wint. this ortubors actually populary up finds
- · Starking ones? FIPS, Common Criteria Ecro. Any Jot most be 'setily-cretitied', CAA bringing hammer