Locations - lookuplapply metabliect

- event log

- prevent

Methods: mobile & - terms? (closures)

State: on ports (?) - well farmedness check

metaop required for 1/0 making sure exactly one
crossing location boundaries
- put in comm rule;

- if allow oneshots, zero/one vertate.

or connistent zero vs. counstant one.

Continuations, ports or full method objects?

Reply. Is this related to Malenfant et al reflection over the continuation?

- either direct output on a port or

- reply via dispatch mechanism

Reply could lift locations back to the receiver abouts in-progress computation collection select: [:a] a 15 Even 17 Time: [^a]] How has benefit of clearly disambiguating the reply operator. "" would mean "reply to neavest enclosing location". Of course, block invocation would then have to not create a fresh location, whereas method invocation would

how about the do? only really sensible for located funcings Continuations actually equivalent to invoking captured continuation

Location of methods - where does # select: run?

shift/
reset

Scheduling dans via a tree. of locations - for roundrobin at each mode?
1/0 on state ports, lifts for reply to to to to the etc. I location-based RCHAM. + for transactional logging-
and method invocation (= 1 application)!
WKOOPERSON ON THE STATE OF THE

Uk. (update[< k,6 >] | k[(old).P])

I update[!(k, new). state[(old). (< new > | k[<old >])]] invocation

I fetch[!(k). state[(old). (< old > | k[< old >])]] update: 6.

Stateless: $1+2 \rightarrow 1$ plus: 2. $\rightarrow \text{#plus}: 1.23$

vk. plus: [< k, 1, 2 >] | k[(sum).7]
plus: [(k, a, b). primInt Add[< k, a, b >]]

Locations—have state? If paused/lifted, then
processes arriving at the location
are lifted and delivered to the lift
receiver? metaprotocol?

bette example 1 plusturo.

DK. (plustwo: [<k,1>] | k[(sum).P])
plustwo: [(k,a). plus: [<k,a,2>)]

Mon Nov 29	2
a banged copy into the calling location.	
1 threstplus2. Similarity birder similar to state birder similar 184a te output similar 184a te output similar	
Vk_1 . (timestyplus2[< k_1 ,1>] k_1 [(sum). P]) timestyplus2[(k_1 , x). Vk_2 . times[< k_2 , x ,4>] k_2 [(v). $plus[k_1,v_1,23]]]$	
timestphus2[!(k,x). k[vk2.*[<k2,x,4>] k2[(v).+[<k,v,2>]]]</k,v,2></k2,x,4>	
alwaysFour[!(b). b[<4>]]	
$[\lambda(\tilde{y}),P]_{k} \rightarrow Vm.m[!(n,\tilde{y}).n[[P]n]] k[km]]$	/
[\lambda(G=E \gamma).P] > VOO. OF [E] WARRANTE	-
$[G \leftarrow E]_{k} \Rightarrow \text{of } [E]_{\sigma} \qquad V_{n}, w[!(n, y), \sigma[G]_{\sigma}]_{\sigma} \\ V_{n}, w[!(n, y), \sigma[G]_{\sigma}]_{\sigma} V_{n}, w[!(n, y), \sigma[G]_{\sigma}]_{\sigma$	֓֞֞֞֞֞֞֞֞֓֓֓֟֟ <u>֚</u>
[V] > k[V>]	
[.] _{{N} · E → Þ	
What is the Themoding of dolumted continuations?	

...

.

The Next Big ThiNG

Tu 30 Nov 04

Reflection vi Metaprogramming Transactions (Henry Baker) Concurrency Functional (Mostly) Object-proched (PMD) Distributed Malenfant reflection - no - infinite push-down-list!

Jelf - speed, simplicity, flexibility - unitorm approach: everything is an object (including activation contexts, in which local variables are s(ots)

- concurrency capporently) pool (y integrated - FAST his benchmark research - way be a semanties: haven't seen it if so topic!

Slate - Almost ideal

- The more I learn about it The closer to ideal It seems. en transactions a la bahen.

- Futuros for concurrency lifted from E - more liho promisei, in a way

- resolution readed for dispatels
- no formal model us yet, no semantics

Ambients - close to ideal for Txus, Concur, Distributed - routing 13 an issue - Silent on Functional, 00, Reflection - Adding lift & drop allows definition of ambient operators (conjecture)

Leflection - for debugging

- for exception

- for Hansaction vollbacks

- for destributed programming

- requires a semantics?

Efficiency - poor to begin with, fully interpreted

- method caching needs adapting to PMD

(ask on #slate about numbers from Their expto)

- other self compilation techniques applicable

- cartesian product algorithm etc

- immutability of objects a challenge for

representing metadate

Should support #become: etc?

agold "A synthesis of dynamic language ideas"
- Near topic

.....