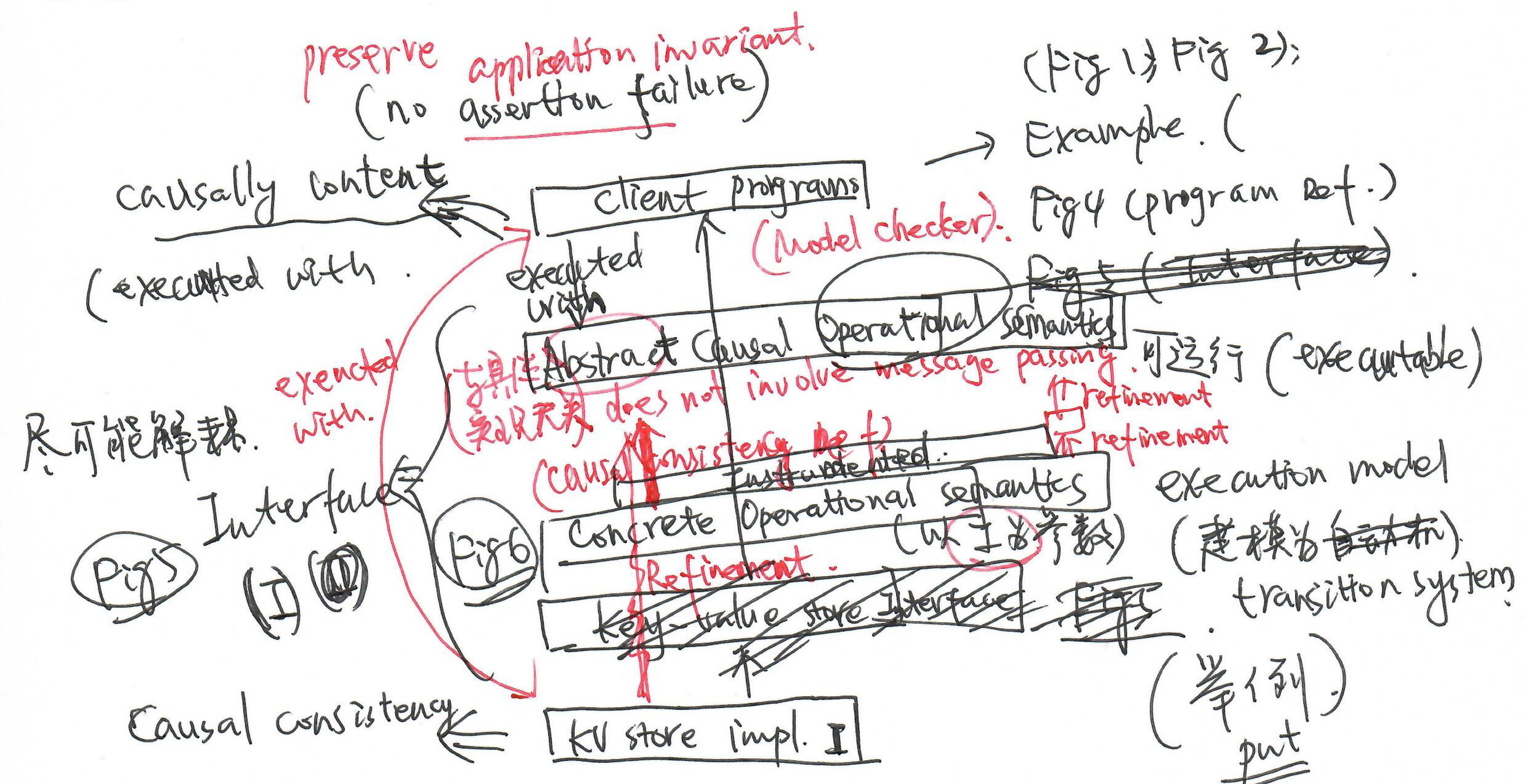


Chapar:

Modular verification of causal consistency for key-value store impls.
A framework for and their client programs.



(1) Chapar: one-sentence description.

(2) Client program vs. KV store impl.

(3) Client program. (does not involve message-passing)
(Example: + app invariants.)

(4) Abstract operational semantics.

(Without referring to the details of
any one specific impl.; to message-passing)

put
+ update
+ guard
(message-passing).

(5) Client program vs. Abstract Operational Semantics.
(Model checking).

(6) Abs. operational semantics vs.
(compositional).

Concrete Operational Semantics

(7) Concrete \Rightarrow Abstract. (Thm 2.)

Well-receptive condition.

(8) Two implementations.