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┌────────────────── MODULE MapCacheTrace ───────────────────┐
EXTENDS Naturals, Sequences, TLC, Trace

VARIABLE history

VARIABLE i

INSTANCE MapHistory WITH history ← history

Read ≜ LET record ≜ Trace[i] IN Record(record.process, record.key, record.version)

Init ≜
  ∧ i = 1
  ∧ history = [p ∈ {} ↦ [k ∈ {} ↦ ⟨⟩]]
Next ≜
  ∨ i < Len(Trace) ∧ i' = i + 1 ∧ Read
  ∨ UNCHANGED ⟨i, history⟩

Spec ≜ Init ∧ □[Next]⟨i, history⟩
└──────────────────┘

\ * Modification History
\ * Last modified Sun Feb 16 18:33:21 PST 2020 by jordanhalterman
\ * Created Sun Feb 16 17:17:30 PST 2020 by jordanhalterman

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