High-Level Proof of Step 2

- 2. Assume: $Inv \wedge (i \in \{0,1\}) \wedge e2(i)$ Prove: Inv'
 - 2.1. TypeOK'
 - 2.2. MutualExclusion'
 - 2.3. Assume: $j \in \{0, 1\}$ PROVE: $InCS(j)' \lor (pc'[j] = \text{``e2''}) \Rightarrow x'[j]$
 - 2.4. Q.E.D. PROOF: By 2.1–2.3 and the definition of *Inv*.