Abstract Conflict-Free Checker

temporal check For every pair of abstract states $\sigma_{\rm i}$, $\sigma_{\rm k}$: if st_i in σ_i and st_k in σ_k may happen in parallel A = combine σ_i , σ_k and $(tid_i \neq tid_k)$ if ALoc(st_i) and ALoc(st_k) may equal in A exit ("Program may be non-deterministic") spatial check exit ("Program is deterministic")

- Combine means meet in the domain
- Note: thread constraint ($tid_i \neq tid_k$) not expressible in polyhedra)