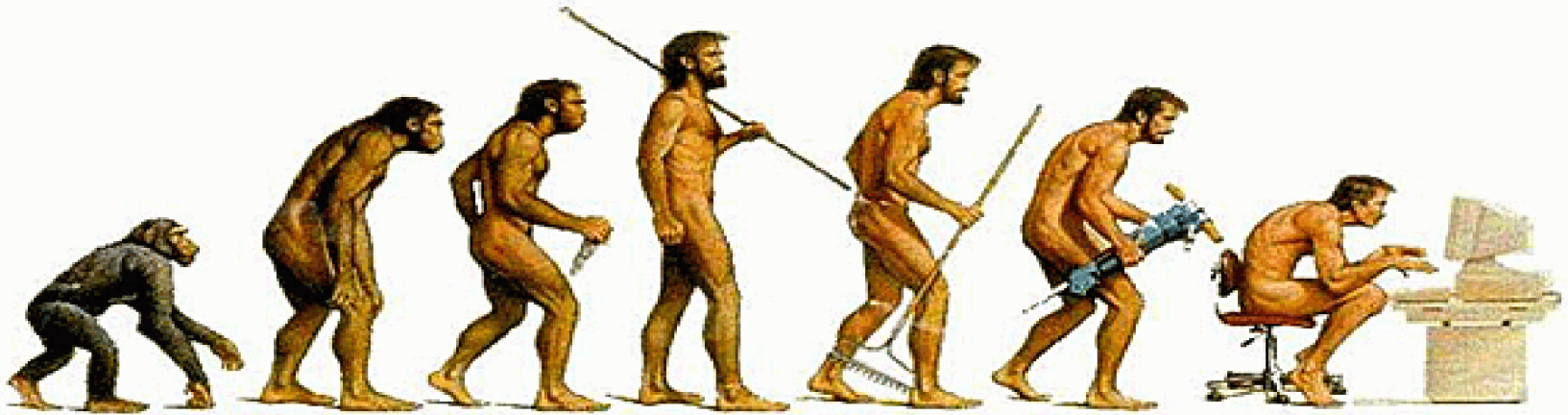


# Determinism Should Ensure Deadlock-Freedom

Nalini Vasudevan and Stephen A. Edwards  
Columbia University



Parallel Computers   Libraries   Concurrent Languages   Performance Races   Deadlocks   Hard-to-debug

- Not all concurrent programming models are deterministic
- Many deterministic programming models are not deadlock-free
- We want both determinism and deadlock-freedom