





Desirable Properties of Parallel Program Executions

- Data-race freedom (Lecture 6)
- Termination
 - But some applications are designed to be nonterminating
- Liveness = a program's ability to make progress in a timely manner
- Different levels of liveness guarantees (from weaker to stronger)
 - -Deadlock freedom
 - -Livelock freedom
 - -Starvation freedom
- —Bounded wait

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