

Soar Lite: Designed for Speed



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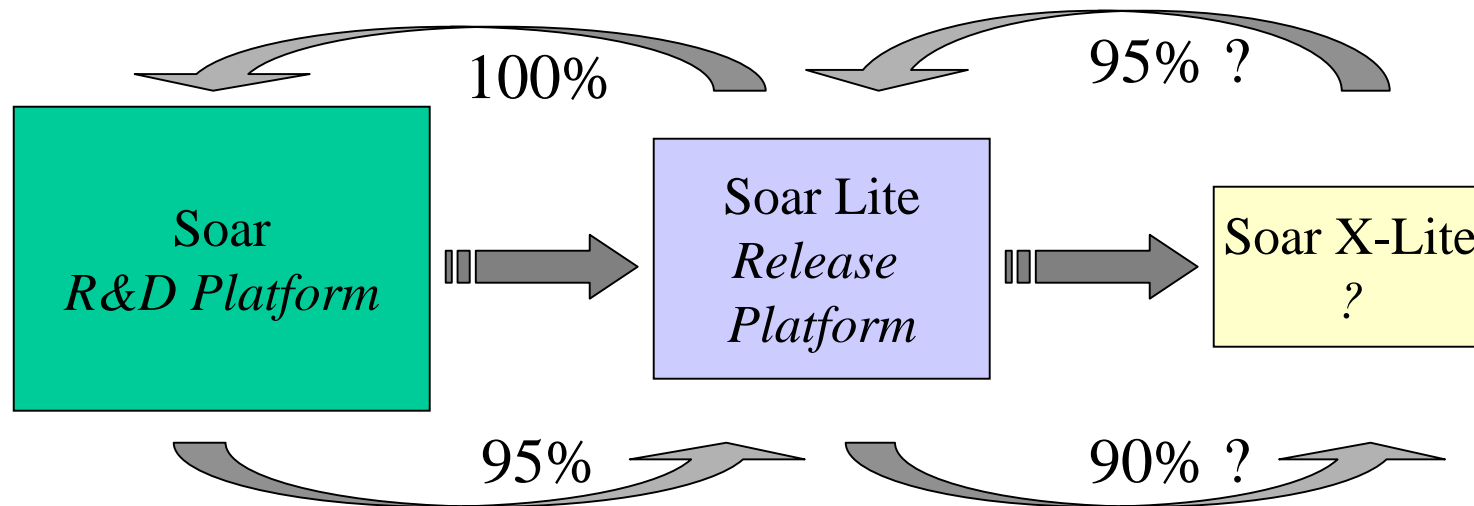
Motivation

- Meet performance requirements of some interesting domains
 - Video games
 - Mobile robots
- Want a embeddable, low-profile version
- Soar/CLIPS comparison revealed two things
 - simple modifications can greatly change performance
 - some architectural capabilities appear very costly

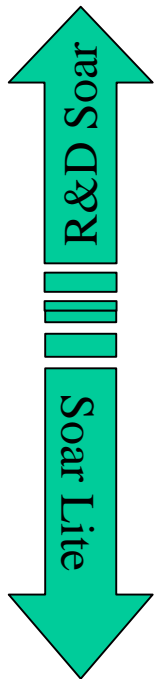


Design Goals

- Increase overall speed
- Maintain current production semantics
- Keep a core set of the architectures capabilities
- Create an API



On the Agenda



- Look for memory leaks with Purify
- Profile with V-Tune (Intel Machines)
- Clean up execution cycle
- Examine efficiency of subgoaling mechanism
- Remove “extraneous” functionality
 - Majority of callbacks
 - Learning support (must be performed prior to release)
 - Debugging utilities

