Project #: Self Updating Software
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Project Overview

- why self updating?
  - installation: total cost of ownership
  - remote devices without interfaces
  - pervasive computing: mobility & change

- approach
  - automation: minimal user intervention
  - soundness: keep system safe & reliable
  - scalability: millions of objects
Progress Through December 1999

- updating objects
  - just-in-time transformation in OODB
  - detailed design complete
- updating configurations
  - model-based autodetection & fix
  - implemented for Java, Windows exe
Research Plan for the Next Six Months

• implement object updating
  – for Thor OO database
  – millions of objects, no loss of availability

• develop component checker
  – recent breakthrough
  – abstract simulation of component
  – automatically detect mismatches