







Interpretation and Composition of Executable Specification Languages

Goals:

- don't design programs, program the design
- eliminate boilerplate

Challenges:

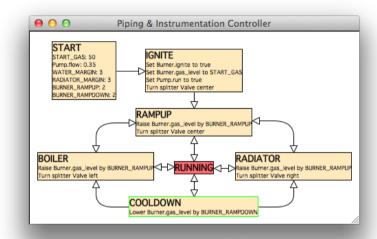
- modular language development
- compositional semantics
- self-hosting

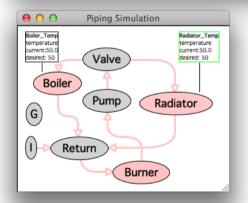
Solution:

- languages for GUI, Web, security, data, syntax, diagram editors, ...
- integrated external DSLs
- interpretation with partial evaluation (no code generation)

Case-study: piping and instrumentation

Interactive simulation of piping model and controller





- Lines of code:
 - Heating model: 53
 - DSL: 357
 - Simulator: 486

www.enso-lang.org