ProofPower
the logical approach
to Systems Engineering

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ProofPower

A multi-lingual interactive mathematical modelling environment supporting:

fast prototyping

  efficient executable models may be developed using a modern interactive functional programming language, standard ML

formal specification

  mathematical models may be specified, syntax-checked and type-checked in expressive mathematical notations HOL (Higher Order Logic) and Z

mathematical proof

  machine assisted, machine checked, interactive proof facilities to check specifications and reason about the behaviour of mathematical models

symbolic evaluation/animation
ProofPower-ML

ProofPower-ML is an extension of the modern functional programming language ‘standard ML’, based on the AHL ‘PolyML’ implementation.

Standard ML has:

- A modern polymorphic type system
- Abstract and concrete datatypes
- Pattern matching function definition
ProofPower-HOL
ProofPower-Z
ProofPower-SAL