

Functional Programming of Devices

Pieter Koopman

TOP is investigated to programme devices. Codes are generated from a source language for Intel (Windows, Mac, Linux), Arm (Linux, Android) based machines or JavaScript. By Embedding Domain Specific Languages in Clean, also code for very small microcomputers like Arduino can be generated enabling concurrent task oriented applications running on heterogeneous hardware. The same technique is used for rapid prototyping of advanced systems for industrial partners such as the Royal Dutch Navy.