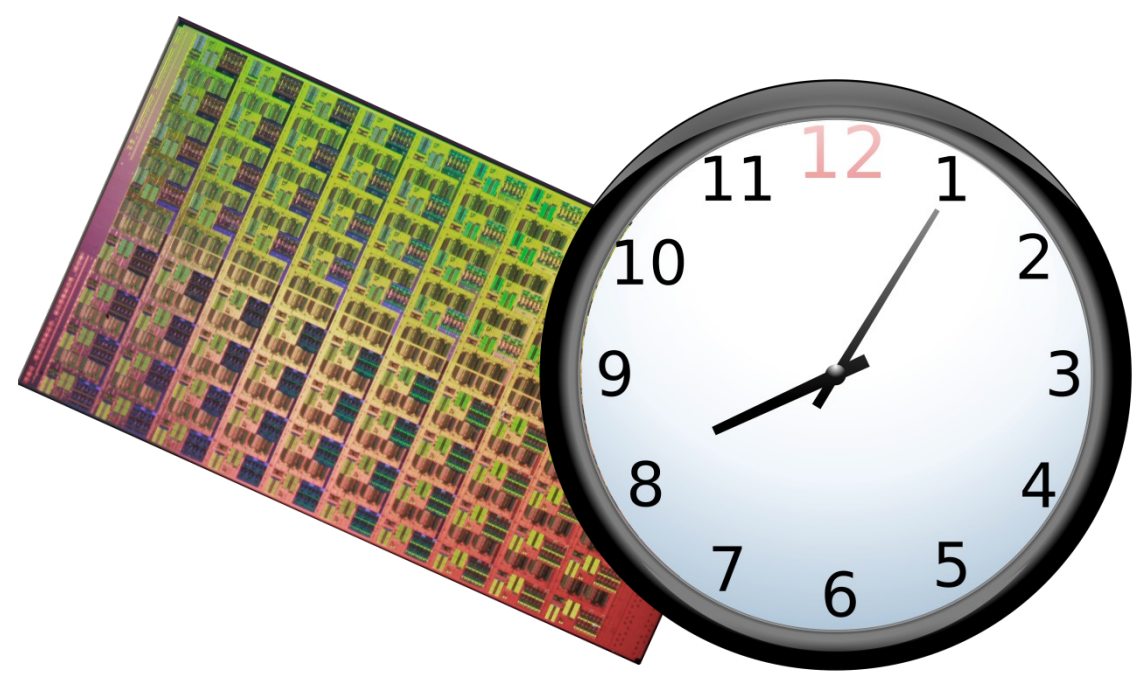


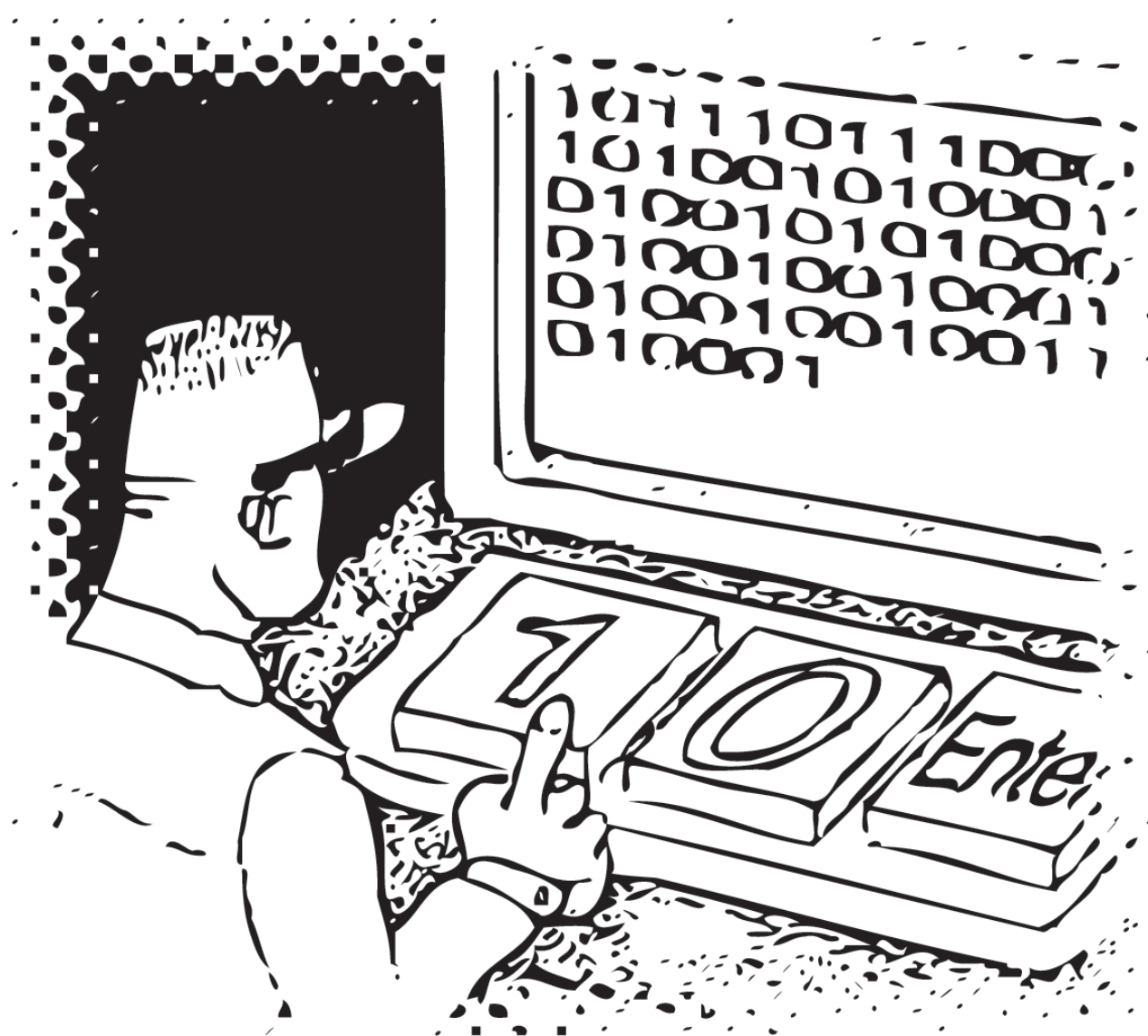
Optimization tools and compilers for IP routing

IP routing

Multi-core hardware with strict runtime performance requirements



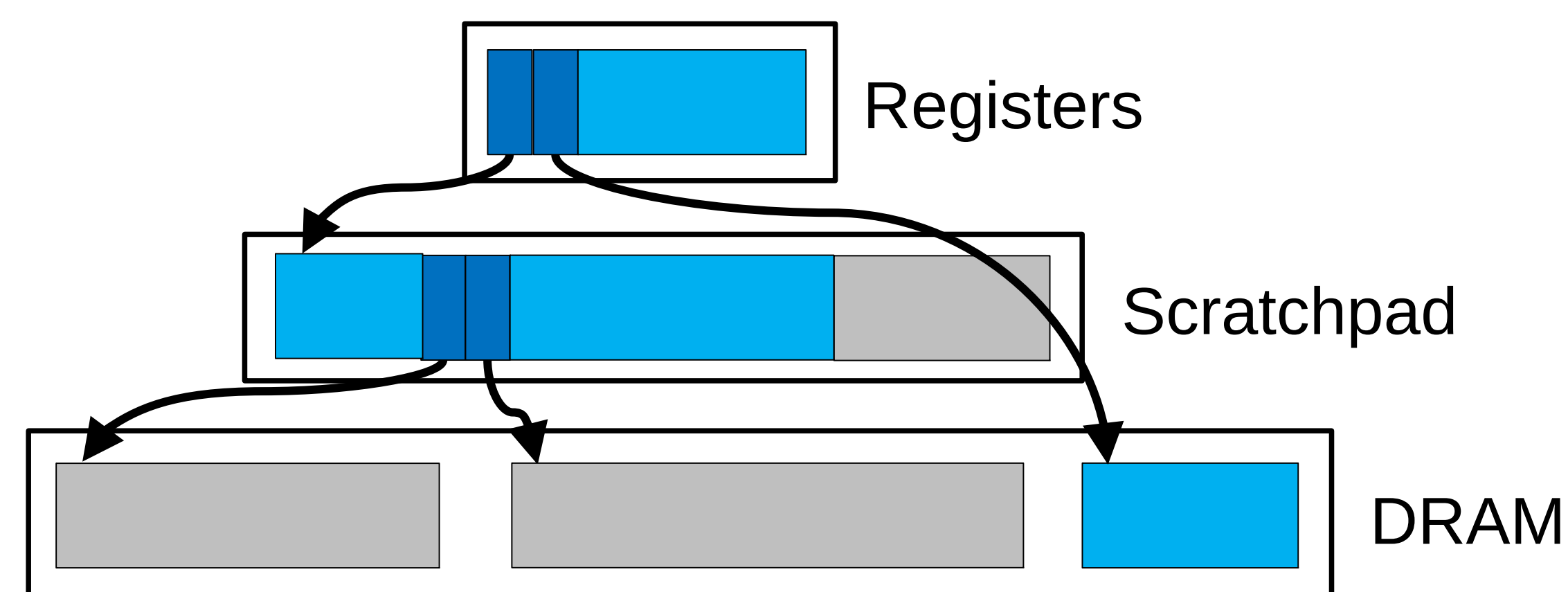
Low-level programming, tool support is essential



Christopher Kania 1997

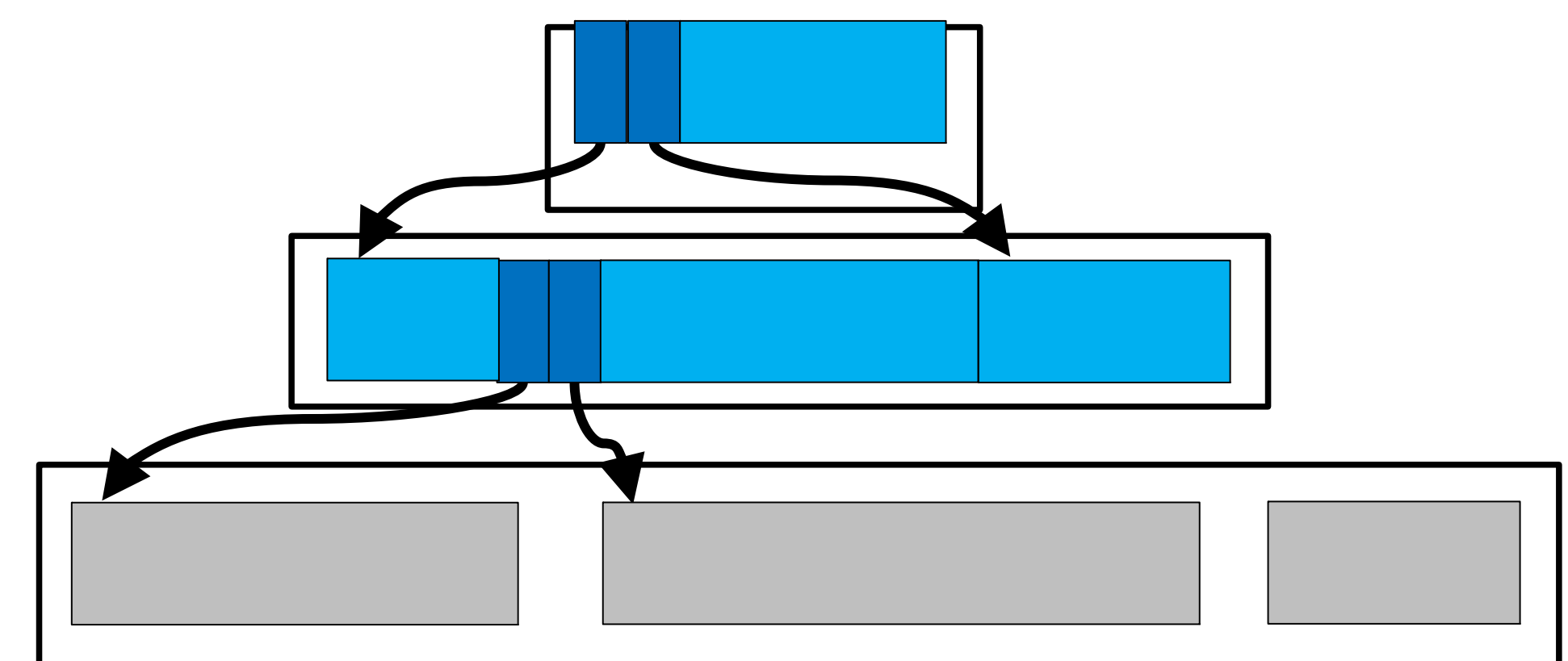


Reconfigure data structures



Currently:
Hard to change
Manual editing
of source code

This project:
Easy reconfiguration
of memory allocations
Automatic adaptation
of source code



Integrates

into

Toolchain

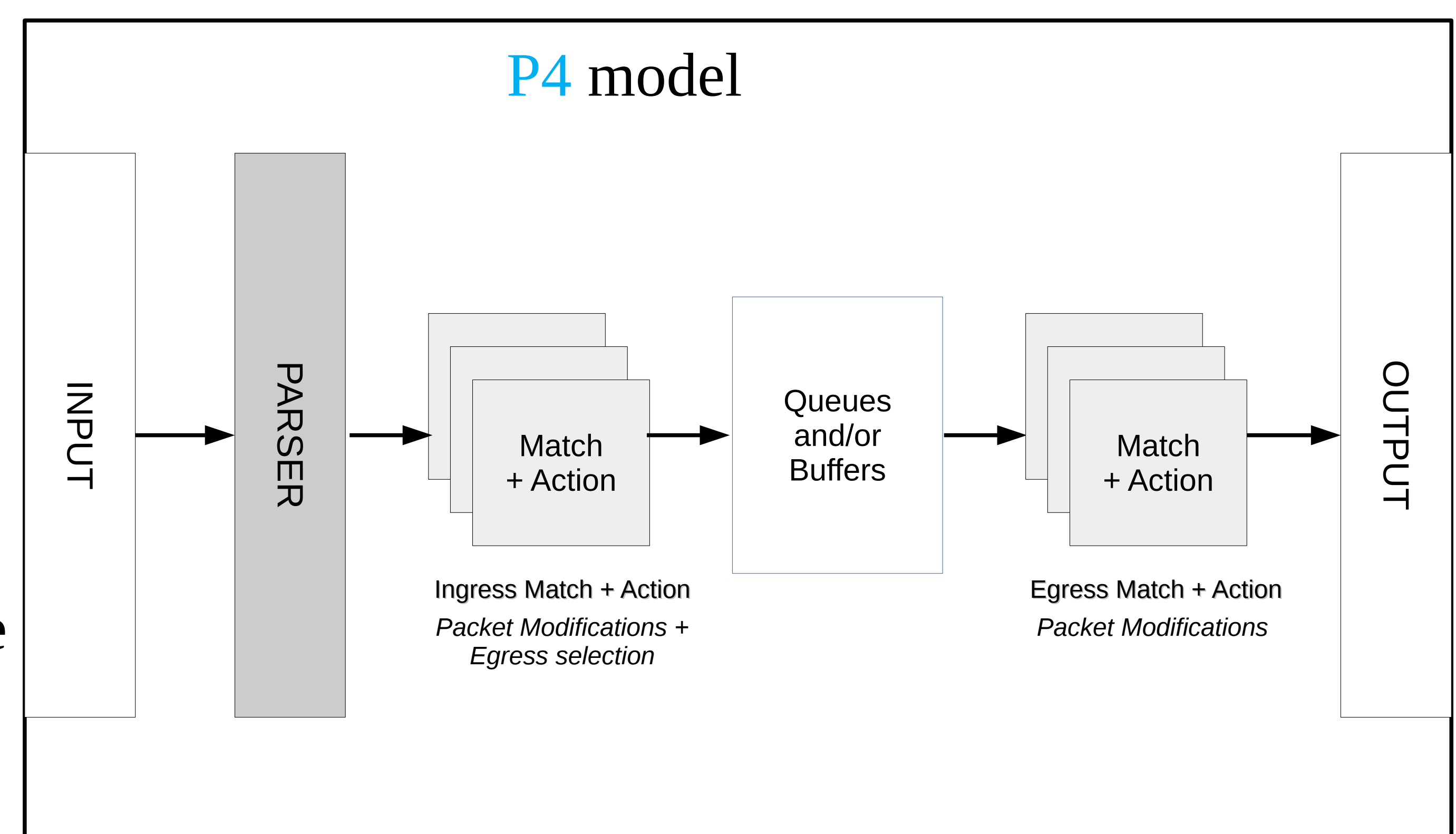
Easy adaptation

- C source code
- C++ tools (CLANG)
- Memory related optimization steps

P4

High level
language
for routing
algorithms

Backend
Creating C source
for special hardware



- Compiler backend
- Optimization steps

Interested?

Máté Tejfel
matej@caesar.elte.hu