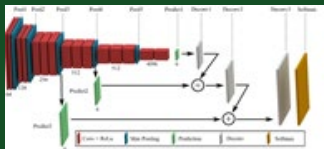


How to support Customers?

StradVision has a couple of simulators and tools to support on R-Car.

Input (CNN model)

SVNet



Parameters

R-Car HW, its structure, spec

- Renesas V3M
- Renesas V3H
- FPS, camera resolution
- Detection range, ROI
- Memory B/W
- Computing device usage
- The size of binary
- Power consumption
- Etc.

StradVision Optimization

Network optimization

- Pruning/Compression
- Split/Merge of sub-layers
- Transformation
 - Ex. 3x3 conv → 5x5 conv
 - FC Layer → 1xk conv

Code generation

- Host code in C/C++
- Compute primitive machine code
 - CL(Command List) for R-car platform

System optimization

- Hotspot analysis
- Computation offloading
- DMA/internal memory optimization

CNN engine

Host framework, Pipeline optimization (from image input to meta data of detection/recognition results)

Off-Line Simulator

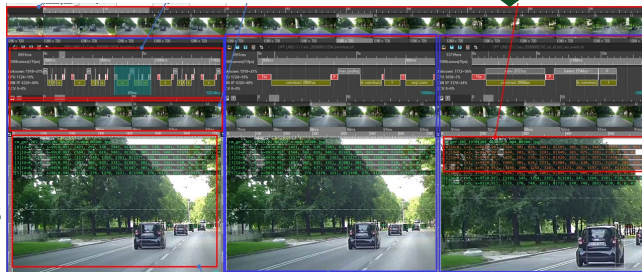
Bit Exact

with Output of R-Car HW



SROL:
Stradvision Renesas
Object Logging.

SROL



Output



Optimized CNN engine
running on R-Car HW
meeting target
spec/performance

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