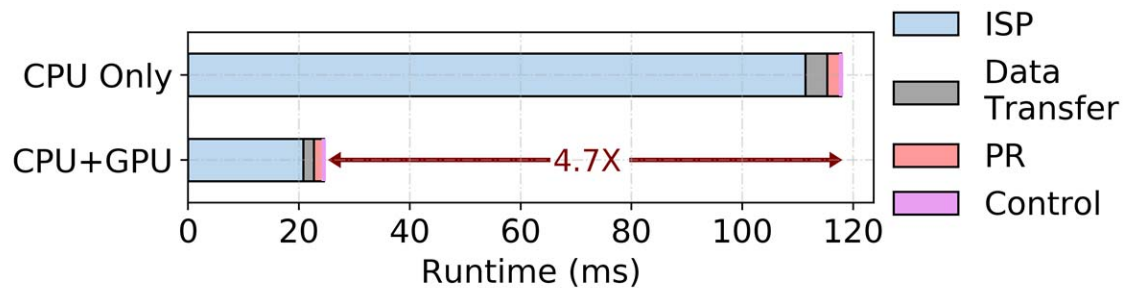


(a) Simplified Block diagram of NVIDIA AGX Xavier



(b) Speed up from optimized task mapping

	CPU	GPU
ISP	<ul style="list-style-type: none"> Input data loading 	<ul style="list-style-type: none"> Demosaicing Denoising Color Map Gamut Map Tone Map
JPEG Encode	<ul style="list-style-type: none"> Formatting output codestream 	<ul style="list-style-type: none"> Forward DCT Huffman encoding
JPEG Decode	<ul style="list-style-type: none"> Parsing input codestream 	<ul style="list-style-type: none"> Inverse DCT Huffman decoding
PR	<ul style="list-style-type: none"> Sliding window based tracking Inference 	<ul style="list-style-type: none"> Preprocessing Image thresholding
C	<ul style="list-style-type: none"> Entire control 	

(c) CPU-GPU task partitioning