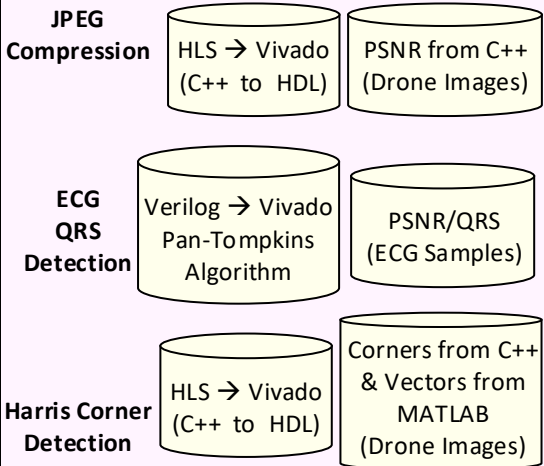


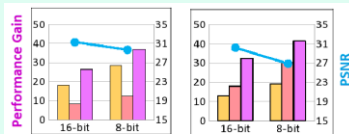
## Implementation and Evaluation of Approximate Kernels



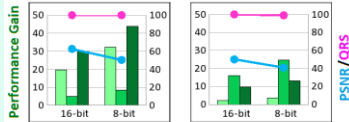
## Sensitivity Analysis

Find  $\Delta ADP$  &  $\Delta QoR$ ,  $\forall$  pair of {Kernel, Technique}  
Technique  $\in$  {x-Mul, x-Div, 8-, 16-bit Precision}  
 $L1 = \{\Delta ADP, \Delta QoR\}_{x-Mul} \dots L4 = \{\Delta ADP, \Delta QoR\}_{16-bit}$

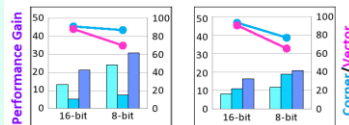
**JPEG Compression**



**ECG QRS Detection**



**Harris Corner Detection**



## Approximation Methodology

