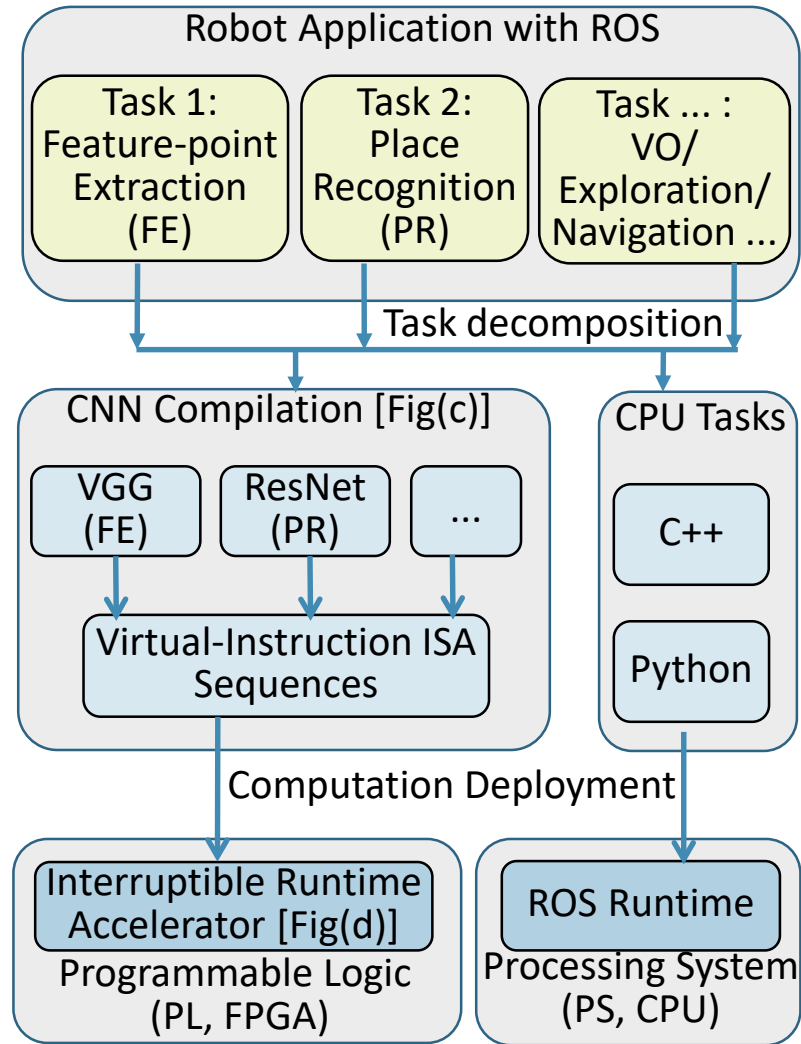
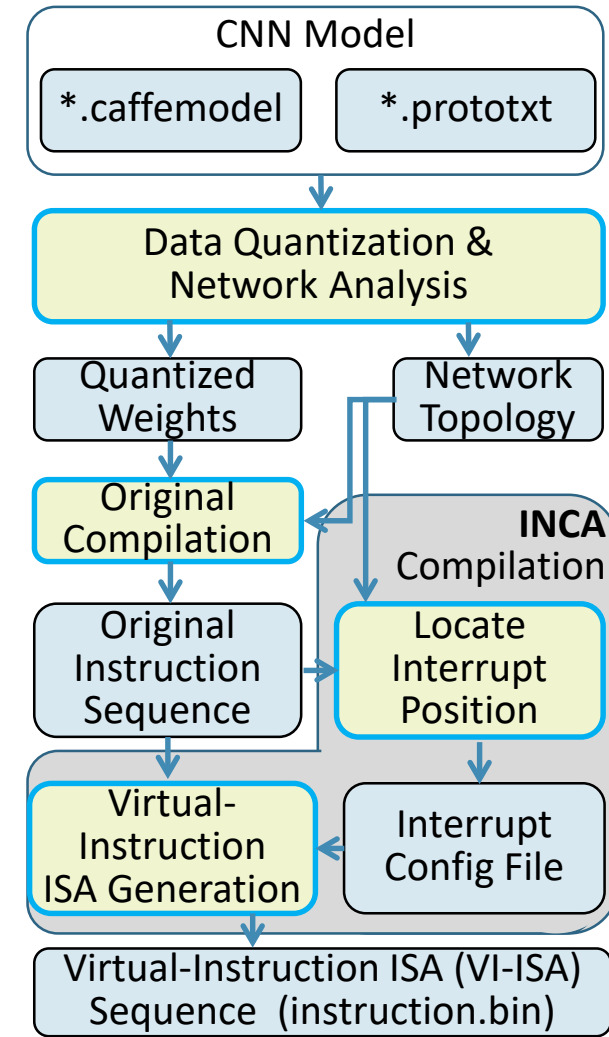


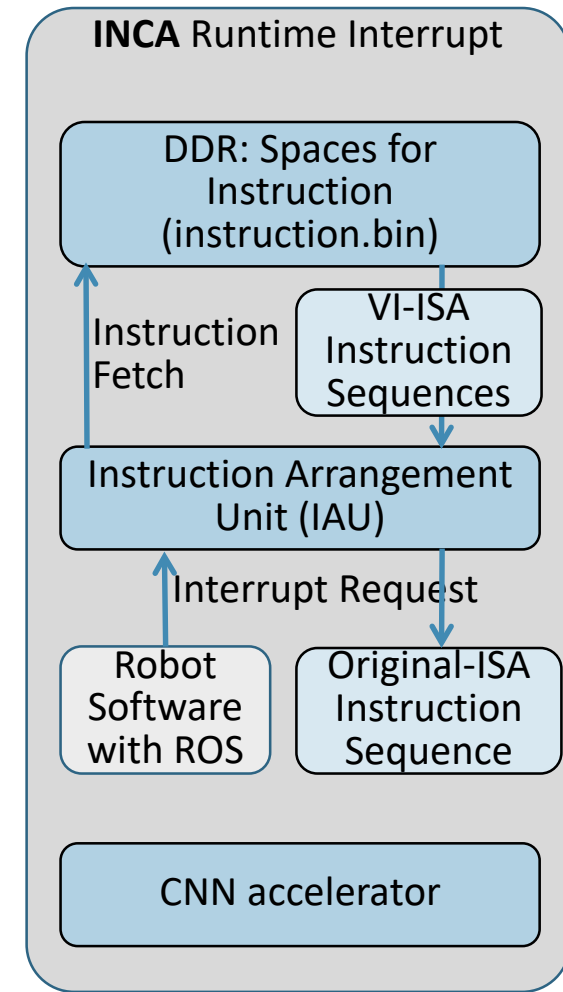
(a) INCA solves resources conflict. The CNN networks of different tasks time division multiplex the accelerator.



(b) INCA framework from robot application to hardware platform.



(c) At compilation, INCA adds virtual instructions to produce VI-ISA instruction sequences.



(d) At runtime, INCA translates the VI-ISA to original ISA executed on the accelerator.