The Vitis AI compiler VAI_C supports both Caffe and TensorFlow model compilation. Before applying VAI_C to build Caffe or TensorFlow models, you should run the `conda activate vitis-ai-caffe` command or the `conda activate vitis-ai-tensorflow` to activate the Conda environment for the Vitis AI tools.

The commands for compiling Caffe/TensorFlow ResNet50 with VAI_C for edge DPUCZDX8G of ZCU102 board are:

```
/vai_c_caffe --prototxt ./deploy.prototxt --caffemodel ./deploy.caffemodel --arch
/opt/vitis_ai/compiler/arch/DPUCZDX8G/ZCU102/arch.json --output_dir model --net_name restnet50

/opt/vitis_ai/compiler/vai_c_tensorflow --frozen_pb ./deploy.pb --arch
/opt/vitis_ai/compiler/arch/DPUCZDX8G/ZCU102/arch.json --output_dir model --net_name resnet50_tf
```

The option `--arch` for vai_c_caffe and vai_c_tensorflow indicates the DPU architecture configuration in which the JSON file is used. For ZCU104 board, the architecture configuration JSON file is `/opt/vitis_ai/compiler/arch/DPUCZDX8G/ZCU104/arch.json`. For the other specified options, see Vitis AI Compiler.