

face_detect (mobilenet V2SSD)	face_kpoint	All ops	SNPEI.19-CPU	SNPEI.19-GPU	SNPEI.19-DSP	tensorflow-lite	hexagon Nnlib	android NNAPI (red ops added for androidP)	hvx hal1.0	arm nn hal1.0	MI-MACE	tencent-NCNN	baidu-MDL
✓ (tensorflow-lite和NNAPI不支持BN，需要修改模型重新训练，将BN合并进CONV，FC，https://omida/posts/2017-02-20-Tutorial-Build-Your-First-Tensorflow-Android-App.html)		ArgMax	✓	✗	✗								
		Batch normalization (+ Scaling)	✓	✓	✓ (?)								
		Channel Shuffle	✓	✓	✓								
		Color space conversion	✓	✓	✓								
✓		Concatenation	✓	✓	✓		✓	✓	✓	✓			
✓	✓	Convolution	✓	✓	✓		✓	✓	✓	✓			
		Crop	✓	✓	✓								
		CrossMap Response Normalization	✓	✓	✓								
		Deconvolution	✓	✓	✓		✓						
		Depthwise Convolution	✓	✓	✓		✓	✓	✓	✓			
✓ (SSD的特殊layer，tf-lite/android NN不支持，10.27号相关提交：https://github.com/tensorflow/tensorflow/commit/629d1a915538093eb11fa526b52fa1de8d1fc748d758eb53ac58d70a13e07e02c6db)		Detection Output	✓	✗	✗								
		Dropout	n/a	n/a	n/a								
		Elementwise	✓	✓	✓			ANEURALNETWORKS_ADD ANEURALNETWORKS_MUL ANEURALNETWORKS_DIV ANEURALNETWORKS_SUB ANEURALNETWORKS_FLOOR	✓ (add, mul)	✓ (add, mul)			
		Flu	✓	✓	✗		mul						
		Flatten	✓	✓	✓		✓						
	✓	Fully connected	✓	✓	✓		✓	✓	✓	✓			
		Input	✓	✓	✓		✓						
		InstanceNorm	✓	✓	✓		✓						
		Local Response Normalization (LRN)	✓	✓	✓		✓	✓		✓			
		Lstm	✓	✓	✓		✓	✓		✓			
		Mean Subtraction	✓	✓	✗								
		Normalize	✓	✓	✗								
		Output	n/a	n/a	n/a		✓						
✓ (tf-lite/android NN不支持)		Permute	✓	✓	✓								
	✓ (both max&avg)	Pooling	✓	✓	✓		✓ (both_max&avg)	✓ (both_max&avg)	✓ (both_max&avg)	✓ (both_max&avg)			
		Power	✓	✓	✓ (?)		✓						
		Prelu	✓	✓	✓		✓						
		Prior Box	n/a	n/a	n/a								
		Proposal	✓	✗	✓								
✓	✓	Relu	✓	✓	✓		✓ relu,relu6	✓ (relu,relu1,relu6)	✓ (relu,relu1,relu6)	✓ (relu,relu1,relu6)			
		Reshape	✓	✓	✓		✓						
		RCE Pooling	✓	✗	✓								
		Sigmoid	✓	✓	✓		✓	✓ (logistic)	✓ (logistic)	✓ (logistic)			
	✓	Tanh	✓	✓	✓		✓	✓					
✓		Scale (Image)	✗	✗	✓		✓ (resize_bilinear)	✓ (resize_bilinear)					
		Scale	✗	✗	✓								
		Splice	n/a	n/a	n/a								
		Slice	✓	✓	✓		✓						
		Softmax	✓	✓	✓		✓		✓	✓			
		Tile	✓	✓	✓								
		floor						✓		✓			
		L2 pooling 2d					✓			✓			
		L2 normalization					✓			✓			
		dequantize					✓		✓				
		lookup operations						ANEURALNETWORKS_HASHTABLE_LOOKUP ANEURALNETWORKS_EMBEDDING_LOOKUP					
		array operations					transpose strided_slice pad spacetodepth depthtospace spacetobatchND batchtospaceND	ANEURALNETWORKS_SQUEEZE ANEURALNETWORKS_TRANSPOSE ANEURALNETWORKS_PAD ANEURALNETWORKS_MEAN ANEURALNETWORKS_STRIDED_SLICE ANEURALNETWORKS_SPACE_TO_DEPTH ANEURALNETWORKS_DEPTH_TO_SPACE ANEURALNETWORKS_SPACE_TO_BATCH_ND ANEURALNETWORKS_BATCH_TO_SPACE_ND					
		ANEURALNETWORKS_LSH_PROJECTION						✓					
		ANEURALNETWORKS_RNN						✓					
		ANEURALNETWORKS_SVD						✓					