Table 1

layer	capacity SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	macc SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	param SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	ch_out SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	width SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	ch_ou t step	dim step	kilo param
conv1	1048576	28311552	1728	64	256			1.7
fire2/squeeze3x3	65536	37748736	9216	16	128	1/4	1/2	9.2
fire2/expand1x1	262144	4194304	1024	64	64	4	1/2	1.0
fire2/expand3x3	262144	37748736	9216	64	64			9.2
fire2/concat	524288			128	64			
fire3/squeeze1x1	65536	8388608	2048	16	64	1/8	1	2.0
fire3/expand1x1	262144	4194304	1024	64	64	4	1	1.0
fire3/expand3x3	262144	37748736	9216	64	64			9.2
fire3/concat	524288			128	64			
fire4/squeeze3x3	32768	37748736	36864	32	64	1/4	1	36.9
fire4/expand1x1	131072	4194304	4096	128	32	4	1/2	4.1
fire4/expand3x3	131072	37748736	36864	128	32			36.9
fire4/concat	262144			256	32			
fire5/squeeze1x1	32768	8388608	8192	32	32	1/8	1	8.2
fire5/expand1x1	131072	4194304	4096	128	32	4	1	4.1
fire5/expand3x3	131072	37748736	36864	128	32			36.9
fire5/concat	262144			256	32			
fire6/squeeze3x3	16384	37748736	147456	64	32	1/4	1	147.5
fire6/expand1x1	65536	4194304	16384	256	16	4	1/2	16.4
fire6/expand3x3	65536	37748736	147456	256	16			147.5
fire6/concat	131072			512	16			
fire7/squeeze1x1	16384	8388608	32768	64	16	1/8	1	32.8
fire7/expand1x1	65536	4194304	16384	256	16	4	1	16.4
fire7/expand3x3	65536	37748736	147456	256	16			147.5
fire7/concat	131072			512	16			
fire8/squeeze3x3	8192	37748736	589824	128	16	1/4	1	589.8
fire8/expand1x1	16384	2097152	32768	256	8	2	1/2	32.8
fire8/expand3x3	16384	18874368	294912	256	8			294.9
fire8/concat	32768			512	8			
fire9/squeeze1x1	8192	4194304	65536	128	8	1/4	1	65.5
fire9/expand1x1	26624	3407872	53248	416	8	3 1/4	1	53.2
fire9/expand3x3	26624	30670848	479232	416	8			479.2
fire9/concat	53248			832	8			
conv10/split1	32768	27262976	425984	512	8	5/8	1	426.0
conv10/split2	32768	27262976	425984	512	8	1	1	426.0
conv10	65536			1024	8	2	1	0.0
loss	1024			1024	1			

Table 1

layer	capacity SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	macc SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	param SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	ch_out SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	width SqueezeNet v1.1 b2a ext7 conv10 2x416 > 2x512 > 1024	ch_ou t step	dim step	kilo weights
conv1	1048576	28311552	1728	64	256			1.7
fire2/squeeze3x3	65536	37748736	9216	16	128	1/4	1/2	9.2
fire2/expand1x1	262144	4194304	1024	64	64	4	1/2	1.0
fire2/expand3x3	262144	37748736	9216	64	64			9.2
fire2/concat	524288			128	64			
fire3/squeeze1x1	65536	8388608	2048	16	64	1/4	1	2.0
fire3/expand1x1	262144	4194304	1024	64	64	4	1	1.0
fire3/expand3x3	262144	37748736	9216	64	64			9.2
fire3/concat	524288			128	64			
fire4/squeeze3x3	32768	37748736	36864	32	64	1/4	1	36.9
fire4/expand1x1	131072	4194304	4096	128	32	4	1/2	4.1
fire4/expand3x3	131072	37748736	36864	128	32			36.9
fire4/concat	262144			256	32			
fire5/squeeze1x1	32768	8388608	8192	32	32	1/4	1	8.2
fire5/expand1x1	131072	4194304	4096	128	32	4	1	4.1
fire5/expand3x3	131072	37748736	36864	128	32			36.9
fire5/concat	262144			256	32			
fire6/squeeze3x3	16384	37748736	147456	64	32	1/4	1	147.5
fire6/expand1x1	65536	4194304	16384	256	16	4	1/2	16.4
fire6/expand3x3	65536	37748736	147456	256	16			147.5
fire6/concat	131072			512	16			
fire7/squeeze1x1	16384	8388608	32768	64	16	1/4	1	32.8
fire7/expand1x1	65536	4194304	16384	192	16	3	1	16.4
fire7/expand3x3	65536	37748736	147456	192	16			147.5
fire7/concat	131072			384	16			
fire8/squeeze3x3	8192	37748736	387184	112	16	1/4	1	387.2
fire8/expand1x1	16384	2097152	32768	256	8	2 1/4	1/2	32.8
fire8/expand3x3	16384	18874368	294912	256	8			294.9
fire8/concat	32768			512	8			
fire9/squeeze1x1	8192	4194304	65536	112	8	1/4	1	65.5
fire9/expand1x1	26624	3407872	41584	368	8	3 1/4	1	41.6
fire9/expand3x3	26624	30670848	371312	368	8			371.3
fire9/concat	53248			736	8			
conv10/split1	32768	27262976	377344	512	8	3/4	1	377.3
conv10/split2	32768	27262976	377344	512	8	1	1	377.3
conv10	65536			1024	8		1	0.0
loss	1024			1024	1		1/8	
						ext7	570M	ЗМ
						ext8	530M	2.5M

Table 1

conv1 fire2/squeeze1x1 fire2/expand3x3 fire2/expand1x1 fire2/concat fire3/squeeze1x1 fire3/expand3x3 fire3/expand1x1 fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1 fire5/expand3x3	1048576 65536 262144 262144 524288 65536 262144 262144 524288 32768 131072 131072 262144 32768 131072	28311552 37748736 37748736 4194304 8388608 37748736 4194304 37748736 4194304 8388608 37748736	1728 9216 9216 1024 2048 9216 1024 36864 36864 4096	16 64 64 128 16 64 64 128 32	256 128 64 64 64 64 64 64 32 32 32	1/4 4 1/8 4 1/4 4	1/2 1/2 1 1 1 1 1/2	10.4 1.2 2.3 10.4 1.2 41.5 41.6
fire2/expand3x3 fire2/expand1x1 fire2/concat fire3/squeeze1x1 fire3/expand3x3 fire3/expand1x1 fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/expand1x1 fire4/concat fire5/squeeze1x1	262144 262144 524288 65536 262144 262144 524288 32768 131072 262144 32768 131072	37748736 4194304 8388608 37748736 4194304 37748736 4194304 8388608	9216 1024 2048 9216 1024 36864 36864 4096	64 64 128 16 64 64 128 32 128 128 256	64 64 64 64 64 64 32 32	1/8 4	1/2	2.3 10.4 1.2 41.5
fire2/expand1x1 fire2/concat fire3/squeeze1x1 fire3/expand3x3 fire3/expand1x1 fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	262144 524288 65536 262144 262144 524288 32768 131072 262144 32768 131072	4194304 8388608 37748736 4194304 37748736 4194304 8388608	1024 2048 9216 1024 36864 36864 4096	64 128 16 64 64 128 32 128 128 256	64 64 64 64 64 32 32	1/8	1 1	1.2 2.3 10.4 1.2 41.5 41.6
fire2/concat fire3/squeeze1x1 fire3/expand3x3 fire3/expand1x1 fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	524288 65536 262144 262144 524288 32768 131072 131072 262144 32768 131072	8388608 37748736 4194304 37748736 37748736 4194304 8388608	2048 9216 1024 36864 36864 4096	128 16 64 64 128 32 128 128 256	64 64 64 64 64 32	1/4	1	2.3 10.4 1.2 41.5 41.6
fire3/squeeze1x1 fire3/expand3x3 fire3/expand1x1 fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	65536 262144 262144 524288 32768 131072 131072 262144 32768 131072	37748736 4194304 37748736 37748736 4194304 8388608	9216 1024 36864 36864 4096	16 64 64 128 32 128 128 256	64 64 64 64 32 32	1/4	1	10.4 1.2 41.5 41.6
fire3/expand3x3 fire3/expand1x1 fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	262144 262144 524288 32768 131072 131072 262144 32768 131072	37748736 4194304 37748736 37748736 4194304 8388608	9216 1024 36864 36864 4096	64 64 128 32 128 128 256	64 64 64 32 32	1/4	1	10.4 1.2 41.5 41.6
fire3/expand1x1 fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	262144 524288 32768 131072 131072 262144 32768 131072	4194304 37748736 37748736 4194304 8388608	36864 36864 4096 8192	64 128 32 128 128 256	64 64 64 32 32	1/4	1	1.2 41.5 41.6
fire3/concat fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	524288 32768 131072 131072 262144 32768 131072	37748736 37748736 4194304 8388608	36864 36864 4096 8192	128 32 128 128 256	64 64 32 32			41.5 41.6
fire4/squeeze1x1 fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	32768 131072 131072 262144 32768 131072	37748736 4194304 8388608	36864 4096 8192	32 128 128 256	64 32 32			41.6
fire4/expand3x3 fire4/expand1x1 fire4/concat fire5/squeeze1x1	131072 131072 262144 32768 131072	37748736 4194304 8388608	36864 4096 8192	128 128 256	32 32			41.6
fire4/expand1x1 fire4/concat fire5/squeeze1x1	131072 262144 32768 131072	4194304 8388608	4096 8192	128 256	32	4	1/2	
fire4/concat fire5/squeeze1x1	262144 32768 131072	8388608	8192	256				4.8
fire5/squeeze1x1	32768 131072				32			
	131072			32				
fire5/expand3x3		37748736		52	32	1/8	1	9.3
	1615=-		36864	128	32	4	1	41.6
fire5/expand1x1	131072	4194304	4096	128	32			4.8
fire5/concat	262144			256	32			
fire6/squeeze1x1	16384	37748736	147456	64	32	1/4	1	166.0
fire6/expand3x3	65536	37748736	147456	256	16	4	1/2	166.2
fire6/expand1x1	65536	4194304	16384	256	16			18.7
fire6/concat	131072			512	16			
fire7/squeeze1x1	16384	8388608	32768	64	16	1/8	1	36.9
fire7/expand3x3	65536	37748736	147456	256	16	4	1	166.2
fire7/expand1x1	65536	4194304	16384	256	16			18.7
fire7/concat	131072			512	16			
fire8/squeeze1x1	16384	8388608	32768	64	16	1/8	1	36.9
fire8/expand3x3	65536	37748736	147456	256	16	4	1	166.2
fire8/expand1x1	65536	4194304	16384	256	16			18.7
fire8/concat	131072			512	16			
fire9/squeeze1x1	16384	8388608	32768	64	16	1/8	1	36.9
fire9/expand3x3	65536	37748736	147456	256	16	4	1	166.2
fire9/expand1x1	65536	4194304	16384	256	16			18.7
fire9/concat	131072			512	16			
conv10	256000	131072000	512000	1000	16	2	1	577.1
loss	1000			1000	1	1	1/16	1.1

Table 1

layer	capacity SqueezeN et v1.1b2a ext1	macc SqueezeN et v1.1b2a ext1	param SqueezeN et v1.1b2a ext1	ch_out SqueezeN et v1.1b2a ext1	width SqueezeN et v1.1b2a ext1	ch_ou t step	dim step	kilo param
conv1	1048576	28311552	1728	64	256			2.0
fire2/squeeze3x3	65536	37748736	9216	16	128	1/4	1/2	10.4
fire2/expand1x1	262144	4194304	1024	64	64	4	1/2	1.2
fire2/expand3x3	262144	37748736	9216	64	64			10.4
fire2/concat	524288			128	64			
fire3/squeeze1x1	65536	8388608	2048	16	64	1/8	1	2.3
fire3/expand1x1	262144	4194304	1024	64	64	4	1	1.2
fire3/expand3x3	262144	37748736	9216	64	64			10.4
fire3/concat	524288			128	64			
fire4/squeeze3x3	32768	37748736	36864	32	64	1/4	1	41.5
fire4/expand1x1	131072	4194304	4096	128	32	4	1/2	4.8
fire4/expand3x3	131072	37748736	36864	128	32			41.6
fire4/concat	262144			256	32			
fire5/squeeze1x1	32768	8388608	8192	32	32	1/8	1	9.3
fire5/expand1x1	131072	4194304	4096	128	32	4	1	4.8
fire5/expand3x3	131072	37748736	36864	128	32			41.6
fire5/concat	262144			256	32			
fire6/squeeze3x3	16384	37748736	147456	64	32	1/4	1	166.0
fire6/expand1x1	65536	4194304	16384	256	16	4	1/2	18.7
fire6/expand3x3	65536	37748736	147456	256	16			166.2
fire6/concat	131072			512	16			
fire7/squeeze1x1	16384	8388608	32768	64	16	1/8	1	36.9
fire7/expand1x1	65536	4194304	16384	256	16	4	1	18.7
fire7/expand3x3	65536	37748736	147456	256	16			166.2
fire7/concat	131072			512	16			
fire8/squeeze1x1	16384	8388608	32768	64	16	1/8	1	36.9
fire8/expand1x1	65536	4194304	16384	256	16	4	1	18.7
fire8/expand3x3	65536	37748736	147456	256	16			166.2
fire8/concat	131072			512	16			
fire9/squeeze3x3	4096	18874368	294912	64	16	1/8	1	331.8
fire9/expand3x3	32768	18874368	294912	256	8	4	1/2	332.1
fire9/expand1x1	32768	2097152	32768	256	8			37.2
fire9/concat	65536			512	8			
conv10	64000	65536000	512000	1000	8	2	1	577.1
loss	1000			1000	1	1	1/8	1.1