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_out 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_out 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	3M
						ext8	530M	2.5M

Table 1

layer	capacity SqueezeNet MAXI	macc SqueezeNet MAXI	param SqueezeNet MAXI	ch_out SqueezeNet MAXI	width SqueezeNet MAXI	ch_out step	dim step	kilo param
conv1	1048576	28311552	1728	64	256			2.0
fire2/squeeze1x1	65536	37748736	9216	16	128	1/4	1/2	10.4
fire2/expand3x3	262144	37748736	9216	64	64	4	1/2	10.4
fire2/expand1x1	262144	4194304	1024	64	64			1.2
fire2/concat	524288			128	64			
fire3/squeeze1x1	65536	8388608	2048	16	64	1/8	1	2.3
fire3/expand3x3	262144	37748736	9216	64	64	4	1	10.4
fire3/expand1x1	262144	4194304	1024	64	64			1.2
fire3/concat	524288			128	64			
fire4/squeeze1x1	32768	37748736	36864	32	64	1/4	1	41.5
fire4/expand3x3	131072	37748736	36864	128	32	4	1/2	41.6
fire4/expand1x1	131072	4194304	4096	128	32			4.8
fire4/concat	262144			256	32			
fire5/squeeze1x1	32768	8388608	8192	32	32	1/8	1	9.3
fire5/expand3x3	131072	37748736	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 SqueezeNet v1.1b2a ext1	macc SqueezeNet v1.1b2a ext1	param SqueezeNet v1.1b2a ext1	ch_out SqueezeNet v1.1b2a ext1	width SqueezeNet v1.1b2a ext1	ch_out 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