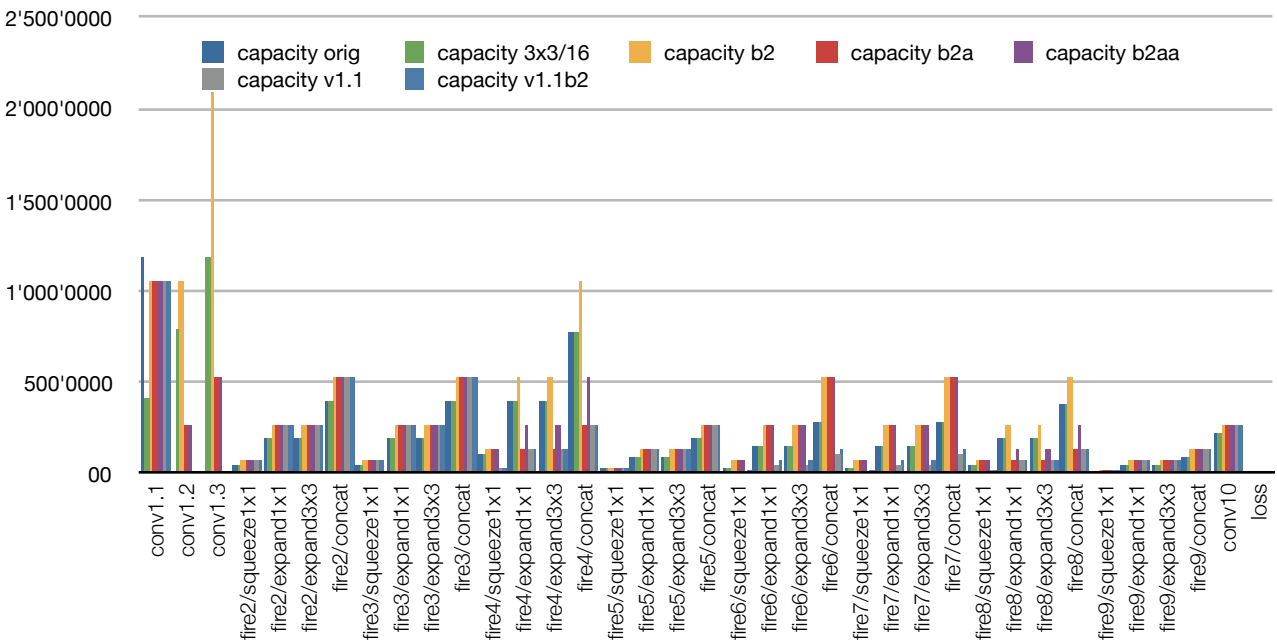


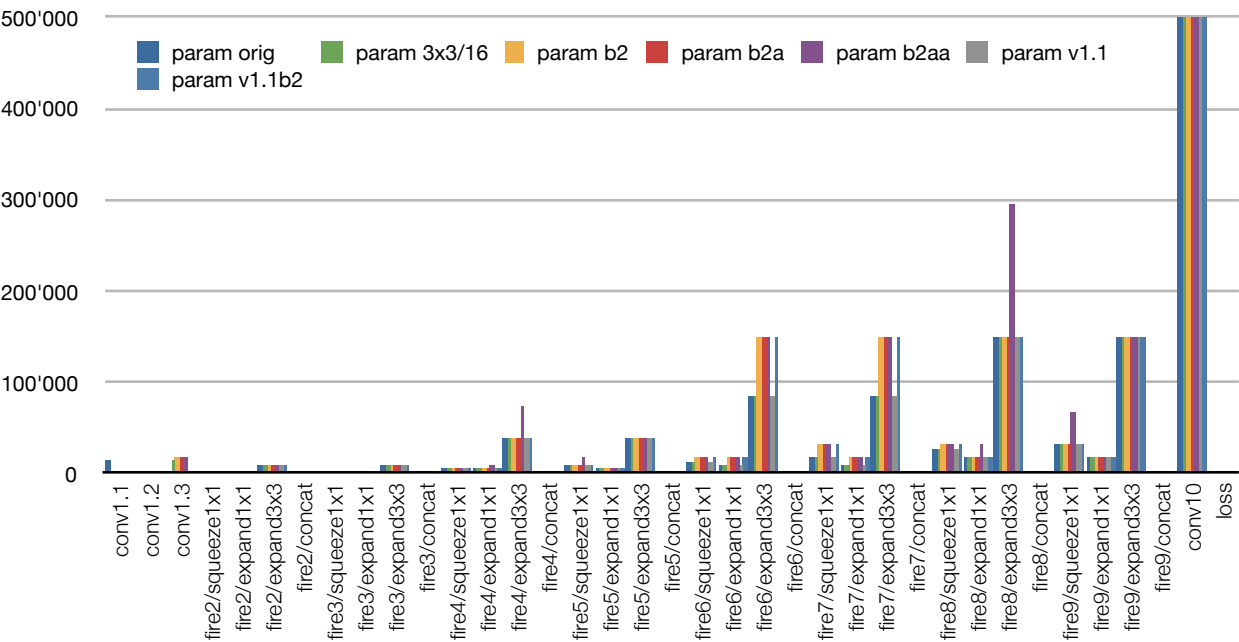
Comparison + Analysis SqueezeNet

layer	capacity orig	capacity 3x3/16	capacity b2	capacity b2a	capacity b2aa	capacity v1.1	capacity v1.1b2	maccoreg	macro3x3/16	macrob2	macrob2a	macrob2aa	macrov1.1	macrov1.1b2	paramorig	param3x3/16	paramb2	paramb2a	paramb2aa	paramv1.1	paramv1.1b2	ch_out orig	ch_out b2	ch_out b2a	ch_out b2aa	ch_out v1.1	ch_out v1.1b2	width orig	width b2	width b2a	width b2aa	width v1.1	width v1.1b2	
conv1.1	1.2E+06	4.1E+05	1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.0E+06	1.7E+08	1.1E+07	2.8E+07	2.8E+07	2.8E+07	2.8E+07	2.8E+07	1.4E+04	2.2E+02	4.3E+02	4.3E+02	4.3E+02	1.7E+03	1.7E+03	96	16	16	16	64	64	227	256	256	256	256	256	
conv1.2		8.0E+05	1.0E+06	2.6E+05	2.6E+05				5.7E+07	1.5E+08	3.8E+07	3.8E+07				1.2E+03	2.3E+03	2.3E+03	2.3E+03				16	16	16				256	256	256			
conv1.3		1.2E+06	2.1E+06	5.2E+05	5.2E+05				1.7E+08	3.0E+08	7.5E+07	7.5E+07				1.4E+04	1.8E+04	1.8E+04	1.8E+04				128	128	128				256	128	128			
fire2/squeeze1x1	4.8E+04	4.8E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	4.6E+06	4.6E+06	8.4E+06	8.4E+06	8.4E+06	4.2E+06	4.2E+06	1.5E+03	1.5E+03	2.0E+03	2.0E+03	2.0E+03	1.0E+03	1.0E+03	16	16	16	16	16	16	55	64	64	64	64	64	
fire2/expand1x1	1.9E+05	1.9E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	3.1E+06	3.1E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	64	64	64	64	64	64	55	64	64	64	64	64	
fire2/expand3x3	1.9E+05	1.9E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.8E+07	2.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	64	64	64	64	64	64	55	64	64	64	64	64	
fire2/concat	3.9E+05	3.9E+05	5.2E+05	5.2E+05	5.2E+05	5.2E+05	5.2E+05															128	128	128	128	128	128	55	64	64	64	64	64	
fire3/squeeze1x1	4.8E+04	4.8E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	6.2E+06	6.2E+06	8.4E+06	8.4E+06	8.4E+06	8.4E+06	8.4E+06	2.0E+03	2.0E+03	2.0E+03	2.0E+03	2.0E+03	2.0E+03	2.0E+03	16	16	16	16	16	16	55	64	64	64	64	64	
fire3/expand1x1	1.9E+05	1.9E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	3.1E+06	3.1E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	64	64	64	64	64	64	55	64	64	64	64	64	
fire3/expand3x3	1.9E+05	1.9E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.8E+07	2.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	9.2E+03	64	64	64	64	64	64	55	64	64	64	64	64	
fire3/concat	3.9E+05	3.9E+05	5.2E+05	5.2E+05	5.2E+05	5.2E+05	5.2E+05															128	128	128	128	128	128	55	64	64	64	64	64	
fire4/squeeze1x1	9.7E+04	9.7E+04	1.3E+05	1.3E+05	1.3E+05	3.3E+04	3.3E+04	1.2E+07	1.2E+07	1.7E+07	1.7E+07	1.7E+07	4.2E+06	4.2E+06	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	32	32	32	32	32	32	55	64	64	64	32	32	
fire4/expand1x1	3.9E+05	3.9E+05	5.2E+05	1.3E+05	2.6E+05	1.3E+05	1.3E+05	1.2E+07	1.2E+07	1.7E+07	4.2E+06	8.4E+06	4.2E+06	4.2E+06	4.1E+03	4.1E+03	4.1E+03	4.1E+03	8.2E+03	4.1E+03	4.1E+03	128	128	128	256	128	128	55	64	64	64	32	32	
fire4/expand3x3	3.9E+05	3.9E+05	5.2E+05	1.3E+05	2.6E+05	1.3E+05	1.3E+05	1.1E+08	1.1E+08	1.5E+08	3.8E+07	7.5E+07	3.8E+07	3.8E+07	3.7E+04	3.7E+04	3.7E+04	3.7E+04	7.4E+04	3.7E+04	3.7E+04	128	128	128	256	128	128	55	64	64	64	32	32	
fire4/concat	7.7E+05	7.7E+05	1.0E+06	2.6E+05	5.2E+05	2.6E+05	2.6E+05															256	256	256	512	256	256	55	64	32	32	32	32	
fire5/squeeze1x1	2.3E+04	2.3E+04	3.3E+04	3.3E+04	3.3E+04	3.3E+04	3.3E+04	6.0E+06	6.0E+06	8.4E+06	8.4E+06	1.7E+07	8.4E+06	8.4E+06	8.2E+03	8.2E+03	8.2E+03	8.2E+03	1.6E+04	8.2E+03	8.2E+03	32	32	32	32	32	32	27	32	32	32	32	32	
fire5/expand1x1	9.3E+04	9.3E+04	1.3E+05	1.3E+05	1.3E+05	1.3E+05	1.3E+05	3.0E+06	3.0E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	4.1E+03	128	128	128	128	128	128	27	32	32	32	32	32	
fire5/expand3x3	9.3E+04	9.3E+04	1.3E+05	1.3E+05	1.3E+05	1.3E+05	1.3E+05	2.7E+07	2.7E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	3.7E+04	3.7E+04	3.7E+04	3.7E+04	3.7E+04	3.7E+04	3.7E+04	128	128	128	128	128	128	27	32	32	32	32	32	
fire5/concat	1.9E+05	1.9E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05															256	256	256	256	256	256	27	32	32	32	32	32	
fire6/squeeze1x1	3.5E+04	3.5E+04	6.6E+04	6.6E+04	6.6E+04	1.2E+04	1.6E+04	9.0E+06	9.0E+06	1.7E+07	1.7E+07	1.7E+07	3.1E+06	4.2E+06	1.2E+04	1.2E+04	1.6E+04	1.6E+04	1.6E+04	1.2E+04	1.6E+04	48	64	64	64	48	64	27	32	32	32	16	16	
fire6/expand1x1	1.4E+05	1.4E+05	2.6E+05	2.6E+05	2.6E+05	4.9E+04	6.6E+04	6.7E+06	6.7E+06	1.7E+07	1.7E+07	1.7E+07	2.4E+06	4.2E+06	9.2E+03	9.2E+03	1.6E+04	1.6E+04	1.6E+04	9.2E+03	1.6E+04	192	256	256	256	192	256	27	32	32	32	16	16	
fire6/expand3x3	1.4E+05	1.4E+05	2.6E+05	2.6E+05	2.6E+05	4.9E+04	6.6E+04	6.0E+07	6.0E+07	1.5E+08	1.5E+08	1.5E+08	2.1E+07	3.8E+07	8.3E+04	8.3E+04	1.5E+05	1.5E+05	1.5E+05	8.3E+04	1.5E+05	192	256	256	256	192	256	27	32	32	32	16	16	
fire6/concat	2.8E+05	2.8E+05	5.2E+05	5.2E+05	5.2E+05	9.8E+04	1.3E+05															384	512	512	512	384	512	27	32	32	32	16	16	
fire7/squeeze1x1	3.5E+04	3.5E+04	6.6E+04	6.6E+04	6.6E+04	1.2E+04	1.6E+04	1.3E+07	1.3E+07	3.4E+07	3.4E+07	3.4E+07	4.7E+06	8.4E+06	1.8E+04	1.8E+04	3.3E+04	3.3E+04	3.3E+04	1.8E+04	3.3E+04	48	64	64	64	48	64	27	32	32	32	16	16	
fire7/expand1x1	1.4E+05	1.4E+05	2.6E+05	2.6E+05	2.6E+05	4.9E+04	6.6E+04	6.7E+06	6.7E+06	1.7E+07	1.7E+07	1.7E+07	2.4E+06	4.2E+06	9.2E+03	9.2E+03	1.6E+04	1.6E+04	1.6E+04	9.2E+03	1.6E+04	192	256	256	256	192	256	27	32	32	32	16	16	
fire7/expand3x3	1.4E+05	1.4E+05	2.6E+05	2.6E+05	2.6E+05	4.9E+04	6.6E+04	6.0E+07	6.0E+07	1.5E+08	1.5E+08	1.5E+08	2.1E+07	3.8E+07	8.3E+04	8.3E+04	1.5E+05	1.5E+05	1.5E+05	8.3E+04	1.5E+05	192	256	256	256	192	256	27	32	32	32	16	16	
fire7/concat	2.8E+05	2.8E+05	5.2E+05	5.2E+05	5.2E+05	9.8E+04	1.3E+05															384	512	512	512	384	512	27	32	32	32	16	16	
fire8/squeeze1x1	4.7E+04	4.7E+04	6.6E+04	6.6E+04	6.6E+04	1.6E+04	1.6E+04	1.8E+07	1.8E+07	3.4E+07	3.4E+07	3.4E+07	6.3E+06	8.4E+06	2.5E+04	2.5E+04	3.3E+04	3.3E+04	3.3E+04	2.5E+04	3.3E+04	64	64	64	64	64	64	27	32	32	32	16	16	
fire8/expand1x1	1.9E+05	1.9E+05	2.6E+05	6.6E+04	1.3E+05	6.6E+04	6.6E+04	1.2E+07	1.2E+07	1.7E+07	4.2E+06	8.4E+06	4.2E+06	4.2E+06	1.6E+04	1.6E+04	1.6E+04	1.6E+04	3.3E+04	1.6E+04	1.6E+04	256	256	256	512	256	256	27	32	32	32	16	16	
fire8/expand3x3	1.9E+05	1.9E+05	2.6E+05	6.6E+04	1.3E+05	6.6E+04	6.6E+04	1.1E+08	1.1E+08	1.5E+08	3.8E+07	7.5E+07	3.8E+07	3.8E+07	1.5E+05	1.5E+05	1.5E+05	1.5E+05	2.9E+05	1.5E+05	1.5E+05	256	256	256	512	256	256	27	32	32	32	16	16	
fire8/concat	3.7E+05	3.7E+05	5.2E+05	1.3E+05	2.6E+05	1.3E+05	1.3E+05															512	512	512	1024	512	512	27	32	16	16	16	16	
fire9/squeeze1x1	1.1E+04	1.1E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04	5.5E+06	5.5E+06	8.4E+06	8.4E+06	1.7E+07	8.4E+06	8.4E+06	3.3E+04	3.3E+04	3.3E+04	3.3E+04	6.6E+04	3.3E+04	3.3E+04	64	64	64	64	64	64	13	16	16	16	16	16	
fire9/expand1x1	4.3E+04	4.3E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	2.8E+06	2.8E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	4.2E+06	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04	256	256	256	256	256	256	13	16	16	16	16	16	
fire9/expand3x3	4.3E+04	4.3E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	6.6E+04	2.5E+07	2.5E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	3.8E+07	1.5E+05	1.5E+05	1.5E+05	1.5E+05	1.5E+05	1.5E+05	1.5E+05	256	256	256	256	256	256	13	16	16	16	16	16	
fire9/concat	8.7E+04	8.7E+04	1.3E+05	1.3E+05	1.3E+05	1.3E+05	1.3E+05								512	512	512	512	512	512	512	512	512	512	512	512	13	16	16	16	16	16		
conv10	2.3E+05	2.3E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	2.6E+05	1.2E+08	1.2E+08	1.3E+08	1.3E+08	1.3E+08	1.3E+08	1.3E+08	5.1E+05	5.1E+05	5.1E+05	5.1E+05	5.1E+05	5.1E+05	5.1E+05	1000	1000	1000	1000	1000	1000	13	16	16	16	16	16	
loss	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03																					1	1	1	1	1	1	

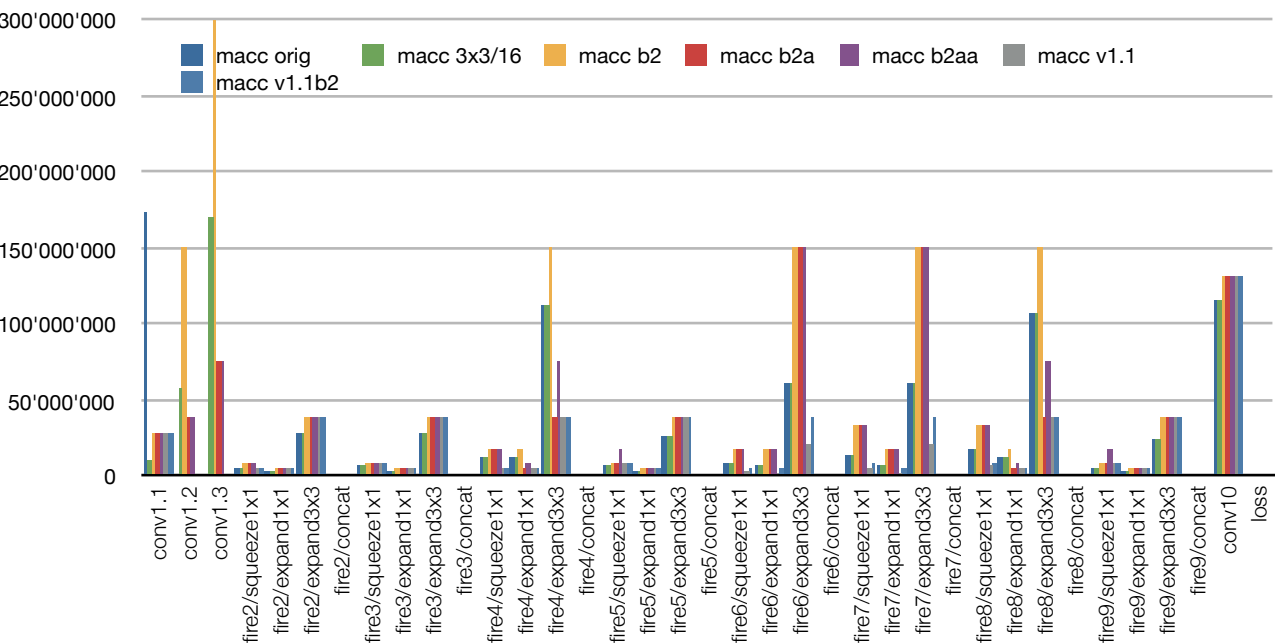
Network Capacity per Layer



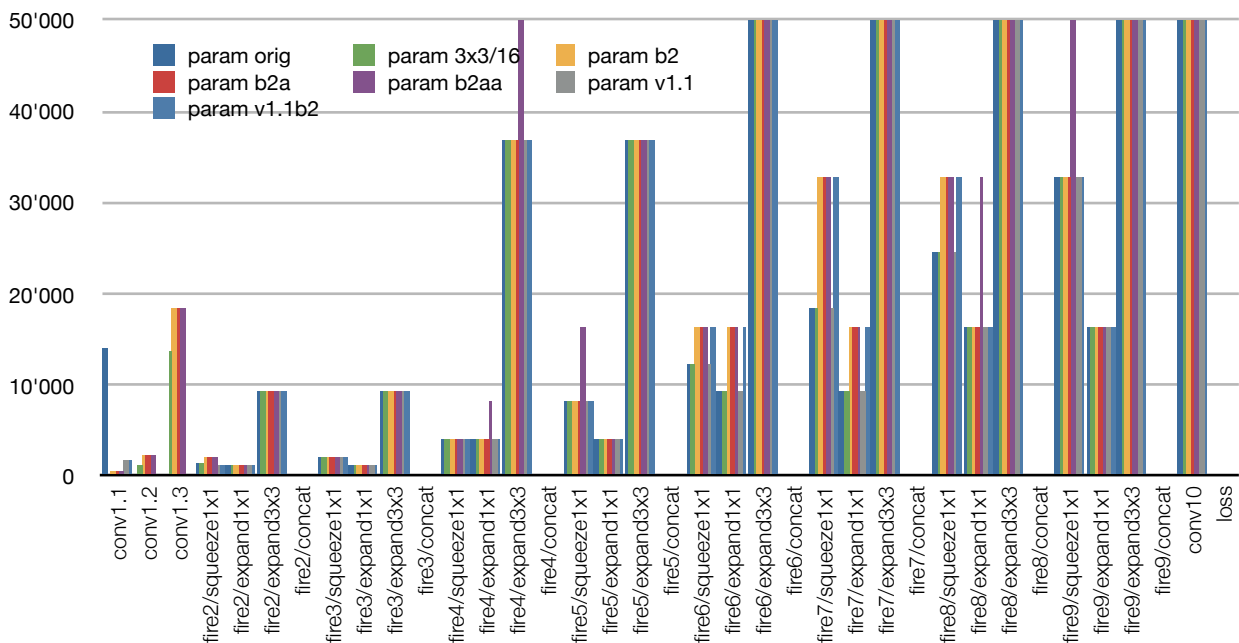
Parameters per Layer



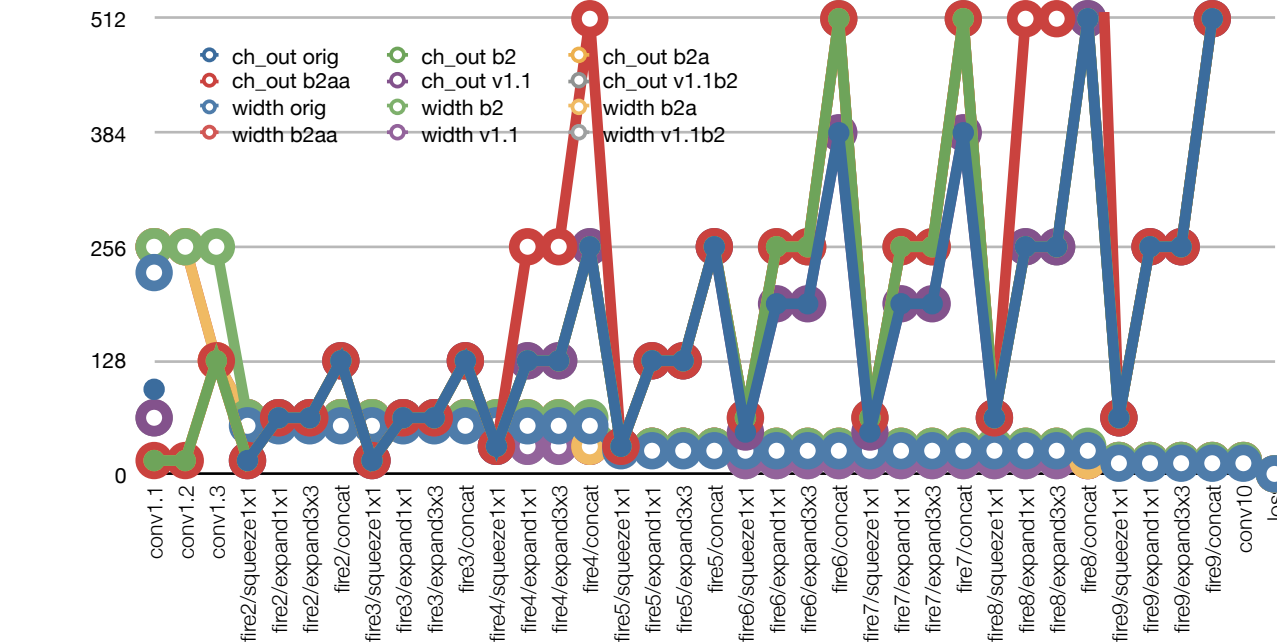
MACC Operations per Layer



Parameters per Layer



Width / Ch_out per Layer



layer	capacity orig	macc orig	param orig	ch_out orig	width orig
conv1	1182816	173873952	14112	96	227
fire2/ squeeze1x1	48400	4646400	1536	16	55
fire2/ expand1x1	193600	3097600	1024	64	55
fire2/ expand3x3	193600	27878400	9216	64	55
fire2/concat	387200			128	55
fire3/ squeeze1x1	48400	6195200	2048	16	55
fire3/ expand1x1	193600	3097600	1024	64	55
fire3/ expand3x3	193600	27878400	9216	64	55
fire3/concat	387200			128	55
fire4/ squeeze1x1	96800	12390400	4096	32	55
fire4/ expand1x1	387200	12390400	4096	128	55
fire4/ expand3x3	387200	111513600	36864	128	55
fire4/concat	774400			256	55
fire5/ squeeze1x1	23328	5971968	8192	32	27
fire5/ expand1x1	93312	2985984	4096	128	27
fire5/ expand3x3	93312	26873856	36864	128	27
fire5/concat	186624			256	27
fire6/ squeeze1x1	34992	8957952	12288	48	27
fire6/ expand1x1	139968	6718464	9216	192	27
fire6/ expand3x3	139968	60466176	82944	192	27
fire6/concat	279936			384	27
fire7/ squeeze1x1	34992	13436928	18432	48	27
fire7/ expand1x1	139968	6718464	9216	192	27
fire7/ expand3x3	139968	60466176	82944	192	27
fire7/concat	279936			384	27
fire8/ squeeze1x1	46656	17915904	24576	64	27
fire8/ expand1x1	186624	11943936	16384	256	27
fire8/ expand3x3	186624	107495424	147456	256	27
fire8/concat	373248			512	27
fire9/ squeeze1x1	10816	5537792	32768	64	13
fire9/ expand1x1	43264	2768896	16384	256	13
fire9/ expand3x3	43264	24920064	147456	256	13
fire9/concat	86528			512	13
conv10	225000	115200000	512000	1000	13
loss	1000				1

layer	capacity 3x3/16	macc 3x3/16	param 3x3/16	ch_out 3x3/16	width 3x3/16
conv1.1	405000	10935000	216	8	227
conv1.2	795664	57287808	1152	16	225
conv1.3	1182816	170325504	13824	96	223
fire2/ squeeze1x1	48400	4646400	1536	16	55
fire2/ expand1x1	193600	3097600	1024	64	55
fire2/ expand3x3	193600	27878400	9216	64	55
fire2/concat	387200			128	55
fire3/ squeeze1x1	48400	6195200	2048	16	55
fire3/ expand1x1	193600	3097600	1024	64	55
fire3/ expand3x3	193600	27878400	9216	64	55
fire3/concat	387200			128	55
fire4/ squeeze1x1	96800	12390400	4096	32	55
fire4/ expand1x1	387200	12390400	4096	128	55
fire4/ expand3x3	387200	111513600	36864	128	55
fire4/concat	774400			256	55
fire5/ squeeze1x1	23328	5971968	8192	32	27
fire5/ expand1x1	93312	2985984	4096	128	27
fire5/ expand3x3	93312	26873856	36864	128	27
fire5/concat	186624			256	27
fire6/ squeeze1x1	34992	8957952	12288	48	27
fire6/ expand1x1	139968	6718464	9216	192	27
fire6/ expand3x3	139968	60466176	82944	192	27
fire6/concat	279936			384	27
fire7/ squeeze1x1	34992	13436928	18432	48	27
fire7/ expand1x1	139968	6718464	9216	192	27
fire7/ expand3x3	139968	60466176	82944	192	27
fire7/concat	279936			384	27
fire8/ squeeze1x1	46656	17915904	24576	64	27
fire8/ expand1x1	186624	11943936	16384	256	27
fire8/ expand3x3	186624	107495424	147456	256	27
fire8/concat	373248			512	27
fire9/ squeeze1x1	10816	5537792	32768	64	13
fire9/ expand1x1	43264	2768896	16384	256	13
fire9/ expand3x3	43264	24920064	147456	256	13
fire9/concat	86528			512	13
conv10	225000	115200000	512000	1000	13
loss	1000				1

layer	capacity b2	macc b2	param b2	ch_out b2	width b2
conv1.1	1048576	28311552	432	16	256
conv1.2	1048576	150994944	2304	16	256
conv1.3	2097152	301989888	18432	128	256
fire2/ squeeze1x1	65536	8388608	2048	16	64
fire2/ expand1x1	262144	4194304	1024	64	64
fire2/ expand3x3	262144	37748736	9216	64	64
fire2/concat	524288			128	64
fire3/ squeeze1x1	65536	8388608	2048	16	64
fire3/ expand1x1	262144	4194304	1024	64	64
fire3/ expand3x3	262144	37748736	9216	64	64
fire3/concat	524288			128	64
fire4/ squeeze1x1	131072	16777216	4096	32	64
fire4/ expand1x1	524288	16777216	4096	128	64
fire4/ expand3x3	524288	150994944	36864	128	64
fire4/concat	1048576			256	64
fire5/ squeeze1x1	32768	8388608	8192	32	32
fire5/ expand1x1	131072	4194304	4096	128	32
fire5/ expand3x3	131072	37748736	36864	128	32
fire5/concat	262144			256	32
fire6/ squeeze1x1	65536	16777216	16384	64	32
fire6/ expand1x1	262144	16777216	16384	256	32
fire6/ expand3x3	262144	150994944	147456	256	32
fire6/concat	524288			512	32
fire7/ squeeze1x1	65536	33554432	32768	64	32
fire7/ expand1x1	262144	16777216	16384	256	32
fire7/ expand3x3	262144	150994944	147456	256	32
fire7/concat	524288			512	32
fire8/ squeeze1x1	65536	33554432	32768	64	32
fire8/ expand1x1	262144	16777216	16384	256	32
fire8/ expand3x3	262144	150994944	147456	256	32
fire8/concat	524288			512	32
fire9/ squeeze1x1	16384	8388608	32768	64	16
fire9/ expand1x1	65536	4194304	16384	256	16
fire9/ expand3x3	65536	37748736	147456	256	16
fire9/concat	131072			512	16
conv10	256000	131072000	512000	1000	16
loss	1000				1

layer	capacity b2a	macc b2a	param b2a	ch_out b2a	width b2a
conv1.1	1048576	28311552	432	16	256
conv1.2	262144	37748736	2304	16	256
conv1.3	524288	75497472	18432	128	128
fire2/ squeeze1x1	65536	8388608	2048	16	64
fire2/ expand1x1	262144	4194304	1024	64	64
fire2/ expand3x3	262144	37748736	9216	64	64
fire2/concat	524288			128	64
fire3/ squeeze1x1	65536	8388608	2048	16	64
fire3/ expand1x1	262144	4194304	1024	64	64
fire3/ expand3x3	262144	37748736	9216	64	64
fire3/concat	524288			128	64
fire4/ squeeze1x1	131072	16777216	4096	32	64
fire4/ expand1x1	131072	4194304	4096	128	64
fire4/ expand3x3	131072	37748736	36864	128	64
fire4/concat	262144			256	32
fire5/ squeeze1x1	32768	8388608	8192	32	32
fire5/ expand1x1	131072	4194304	4096	128	32
fire5/ expand3x3	131072	37748736	36864	128	32
fire5/concat	262144			256	32
fire6/ squeeze1x1	65536	16777216	16384	64	32
fire6/ expand1x1	262144	16777216	16384	256	32
fire6/ expand3x3	262144	150994944	147456	256	32
fire6/concat	524288			512	32
fire7/ squeeze1x1	65536	33554432	32768	64	32
fire7/ expand1x1	262144	16777216	16384	256	32
fire7/ expand3x3	262144	150994944	147456	256	32
fire7/concat	524288			512	32
fire8/ squeeze1x1	65536	33554432	32768	64	32
fire8/ expand1x1	65536	4194304	16384	256	32
fire8/ expand3x3	65536	37748736	147456	256	32
fire8/concat	131072			512	16
fire9/ squeeze1x1	16384	8388608	32768	64	16
fire9/ expand1x1	65536	4194304	16384	256	16
fire9/ expand3x3	65536	37748736	147456	256	16
fire9/concat	131072			512	16
conv10	256000	131072000	512000	1000	16
loss	1000			1000	1

layer	capacity b2aa	macc b2aa	param b2aa	ch_out b2aa	width b2aa
conv1.1	1048576	28311552	432	16	256
conv1.2	262144	37748736	2304	16	256
conv1.3	524288	75497472	18432	128	128
fire2/ squeeze1x1	65536	8388608	2048	16	64
fire2/ expand1x1	262144	4194304	1024	64	64
fire2/ expand3x3	262144	37748736	9216	64	64
fire2/concat	524288			128	64
fire3/ squeeze1x1	65536	8388608	2048	16	64
fire3/ expand1x1	262144	4194304	1024	64	64
fire3/ expand3x3	262144	37748736	9216	64	64
fire3/concat	524288			128	64
fire4/ squeeze1x1	131072	16777216	4096	32	64
fire4/ expand1x1	262144	8388608	8192	256	64
fire4/ expand3x3	262144	75497472	73728	256	64
fire4/concat	524288			512	32
fire5/ squeeze1x1	32768	16777216	16384	32	32
fire5/ expand1x1	131072	4194304	4096	128	32
fire5/ expand3x3	131072	37748736	36864	128	32
fire5/concat	262144			256	32
fire6/ squeeze1x1	65536	16777216	16384	64	32
fire6/ expand1x1	262144	16777216	16384	256	32
fire6/ expand3x3	262144	150994944	147456	256	32
fire6/concat	524288			512	32
fire7/ squeeze1x1	65536	33554432	32768	64	32
fire7/ expand1x1	262144	16777216	16384	256	32
fire7/ expand3x3	262144	150994944	147456	256	32
fire7/concat	524288			512	32
fire8/ squeeze1x1	65536	33554432	32768	64	32
fire8/ expand1x1	131072	8388608	32768	512	32
fire8/ expand3x3	131072	75497472	294912	512	32
fire8/concat	262144			1024	16
fire9/ squeeze1x1	16384	16777216	65536	64	16
fire9/ expand1x1	65536	4194304	16384	256	16
fire9/ expand3x3	65536	37748736	147456	256	16
fire9/concat	131072			512	16
conv10	256000	131072000	512000	1000	16
loss	1000			1000	1

layer	capacity v1.1	macc v1.1	param v1.1	ch_out v1.1	width v1.1
conv1	1048576	28311552	1728	64	256
fire2/ squeeze1x1	65536	4194304	1024	16	64
fire2/ expand1x1	262144	4194304	1024	64	64
fire2/ expand3x3	262144	37748736	9216	64	64
fire2/concat	524288			128	64
fire3/ squeeze1x1	65536	8388608	2048	16	64
fire3/ expand1x1	262144	4194304	1024	64	64
fire3/ expand3x3	262144	37748736	9216	64	64
fire3/concat	524288			128	64
fire4/ squeeze1x1	32768	4194304	4096	32	32
fire4/ expand1x1	131072	4194304	4096	128	32
fire4/ expand3x3	131072	37748736	36864	128	32
fire4/concat	262144			256	32
fire5/ squeeze1x1	32768	8388608	8192	32	32
fire5/ expand1x1	131072	4194304	4096	128	32
fire5/ expand3x3	131072	37748736	36864	128	32
fire5/concat	262144			256	32
fire6/ squeeze1x1	12288	3145728	12288	48	16
fire6/ expand1x1	49152	2359296	9216	192	16
fire6/ expand3x3	49152	21233664	82944	192	16
fire6/concat	98304			384	16
fire7/ squeeze1x1	12288	4718592	18432	48	16
fire7/ expand1x1	49152	2359296	9216	192	16
fire7/ expand3x3	49152	21233664	82944	192	16
fire7/concat	98304			384	16
fire8/ squeeze1x1	16384	6291456	24576	64	16
fire8/ expand1x1	65536	4194304	16384	256	16
fire8/ expand3x3	65536	37748736	147456	256	16
fire8/concat	131072			512	16
fire9/ squeeze1x1	16384	8388608	32768	64	16
fire9/ expand1x1	65536	4194304	16384	256	16
fire9/ expand3x3	65536	37748736	147456	256	16
fire9/concat	131072			512	16
conv10	256000	131072000	512000	1000	16
loss	1000			1000	1

layer	capacity v1.1b2	macc v1.1b2	param v1.1b2	ch_out v1.1b2	width v1.1b2
conv1	1048576	28311552	1728	64	256
fire2/ squeeze1x1	65536	4194304	1024	16	64
fire2/ expand1x1	262144	4194304	1024	64	64
fire2/ expand3x3	262144	37748736	9216	64	64
fire2/concat	524288			128	64
fire3/ squeeze1x1	65536	8388608	2048	16	64
fire3/ expand1x1	262144	4194304	1024	64	64
fire3/ expand3x3	262144	37748736	9216	64	64
fire3/concat	524288			128	64
fire4/ squeeze1x1	32768	4194304	4096	32	32
fire4/ expand1x1	131072	4194304	4096	128	32
fire4/ expand3x3	131072	37748736	36864	128	32
fire4/concat	262144			256	32
fire5/ squeeze1x1	32768	8388608	8192	32	32
fire5/ expand1x1	131072	4194304	4096	128	32
fire5/ expand3x3	131072	37748736	36864	128	32
fire5/concat	262144			256	32
fire6/ squeeze1x1	16384	4194304	16384	64	16
fire6/ expand1x1	65536	4194304	16384	256	16
fire6/ expand3x3	65536	37748736	147456	256	16
fire6/concat	131072			512	16
fire7/ squeeze1x1	16384	8388608	32768	64	16
fire7/ expand1x1	65536	4194304	16384	256	16
fire7/ expand3x3	65536	37748736	147456	256	16
fire7/concat	131072			512	16
fire8/ squeeze1x1	16384	8388608	32768	64	16
fire8/ expand1x1	65536	4194304	16384	256	16
fire8/ expand3x3	65536	37748736	147456	256	16
fire8/concat	131072			512	16
fire9/ squeeze1x1	16384	8388608	32768	64	16
fire9/ expand1x1	65536	4194304	16384	256	16
fire9/ expand3x3	65536	37748736	147456	256	16
fire9/concat	131072			512	16
conv10	256000	131072000	512000	1000	16
loss	1000			1000	1