

# ***NatureDSP Signal Library for Fusion F1***

**Digital Signal Processing**

**Performance Data**

Tools: RF-2015.3  
Release: 1.0.0  
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Library API: 3.3.0

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## ***About this Release***

This is version 1.0.0 of the library. This release is done on the Xtensa Xplorer and Tools version RF.2015.3.

Following are the Fusion F1 ISA options used in the library along with Fusion F1 base core:

- Audio/Voice/Speech (AVS)
- 16-bit Quad MAC
- Floating point (FP)

The library is conditionalized for the Fusion F1 ISA options and the implementation of the routines are selected according to the configuration options.

For floating point kernels, the FP option needs to be selected for the core configuration.



## 1.1 Functions Performance

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS//FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
FIR filters:				
bkfir24x24_process	N=80; M=256	10644 (1.9 MACs/cycle)	10644 (1.9 MACs/cycle)	10644 (1.9 MACs/cycle)
bkfir24x24_process	N=2048; M=8	17945 (0.9 MACs/cycle)	17945 (0.9 MACs/cycle)	17945 (0.9 MACs/cycle)
bkfir24x24_process	N=160; M=8	1424 (0.9 MACs/cycle)	1424 (0.9 MACs/cycle)	1424 (0.9 MACs/cycle)
bkfir24x24_process	N=160; M=16	2064 (1.2 MACs/cycle)	2064 (1.2 MACs/cycle)	2064 (1.2 MACs/cycle)
bkfir24x24_process	N=1024; M=32	21269 (1.5 MACs/cycle)	21269 (1.5 MACs/cycle)	21269 (1.5 MACs/cycle)
bkfir24x24p_process	N=80; M=256	10684 (1.9 MACs/cycle)	10684 (1.9 MACs/cycle)	10684 (1.9 MACs/cycle)
bkfir24x24p_process	N=2048; M=8	18969 (0.9 MACs/cycle)	18969 (0.9 MACs/cycle)	18969 (0.9 MACs/cycle)
bkfir24x24p_process	N=160; M=8	1504 (0.9 MACs/cycle)	1504 (0.9 MACs/cycle)	1504 (0.9 MACs/cycle)
bkfir24x24p_process	N=160; M=16	2144 (1.2 MACs/cycle)	2144 (1.2 MACs/cycle)	2144 (1.2 MACs/cycle)
bkfir24x24p_process	N=1024; M=32	21781 (1.5 MACs/cycle)	21781 (1.5 MACs/cycle)	21781 (1.5 MACs/cycle)
bkfira24x24_process	N=80; M=256	10674 (1.9 MACs/cycle)	10674 (1.9 MACs/cycle)	10674 (1.9 MACs/cycle)
bkfira24x24_process	N=2048; M=8	18467 (0.9 MACs/cycle)	18467 (0.9 MACs/cycle)	18467 (0.9 MACs/cycle)
bkfira24x24_process	N=160; M=8	1474 (0.9 MACs/cycle)	1474 (0.9 MACs/cycle)	1474 (0.9 MACs/cycle)
bkfira24x24_process	N=160; M=16	2114 (1.2 MACs/cycle)	2114 (1.2 MACs/cycle)	2114 (1.2 MACs/cycle)
bkfira24x24_process	N=1024; M=32	21535 (1.5 MACs/cycle)	21535 (1.5 MACs/cycle)	21535 (1.5 MACs/cycle)
bkfir32x16_process	N=80; M=256	10643 (1.9 MACs/cycle)	10643 (1.9 MACs/cycle)	10643 (1.9 MACs/cycle)
bkfir32x16_process	N=2048; M=8	17944 (0.9 MACs/cycle)	17944 (0.9 MACs/cycle)	17944 (0.9 MACs/cycle)
bkfir32x16_process	N=160; M=8	1423 (0.9 MACs/cycle)	1423 (0.9 MACs/cycle)	1423 (0.9 MACs/cycle)
bkfir32x16_process	N=160; M=16	2063 (1.2 MACs/cycle)	2063 (1.2 MACs/cycle)	2063 (1.2 MACs/cycle)
bkfir32x16_process	N=1024; M=32	21268 (1.5 MACs/cycle)	21268 (1.5 MACs/cycle)	21268 (1.5 MACs/cycle)
bkfir32x32_process	N=80; M=256	21224 (1.0 MACs/cycle)	21224 (1.0 MACs/cycle)	21224 (1.0 MACs/cycle)
bkfir32x32_process	N=2048; M=8	34841 (0.5 MACs/cycle)	34841 (0.5 MACs/cycle)	34841 (0.5 MACs/cycle)
bkfir32x32_process	N=160; M=8	2744 (0.5 MACs/cycle)	2744 (0.5 MACs/cycle)	2744 (0.5 MACs/cycle)
bkfir32x32_process	N=160; M=16	4024 (0.6 MACs/cycle)	4024 (0.6 MACs/cycle)	4024 (0.6 MACs/cycle)
bkfir32x32_process	N=1024; M=32	42005 (0.8 MACs/cycle)	42005 (0.8 MACs/cycle)	42005 (0.8 MACs/cycle)
bkfira32x16_process	N=80; M=256	10714 (1.9 MACs/cycle)	10714 (1.9 MACs/cycle)	10714 (1.9 MACs/cycle)
bkfira32x16_process	N=2048; M=8	19491 (0.8 MACs/cycle)	19491 (0.8 MACs/cycle)	19491 (0.8 MACs/cycle)
bkfira32x16_process	N=160; M=8	1554 (0.8 MACs/cycle)	1554 (0.8 MACs/cycle)	1554 (0.8 MACs/cycle)
bkfira32x16_process	N=160; M=16	2194 (1.2 MACs/cycle)	2194 (1.2 MACs/cycle)	2194 (1.2 MACs/cycle)
bkfira32x16_process	N=1024; M=32	22047 (1.5 MACs/cycle)	22047 (1.5 MACs/cycle)	22047 (1.5 MACs/cycle)
cxfir32x16_process	N=80; M=128	21462 (1.9 MACs/cycle)	21442 (1.9 MACs/cycle)	21442 (1.9 MACs/cycle)
cxfir32x16_process	N=2048; M=8	57367 (1.1 MACs/cycle)	56855 (1.2 MACs/cycle)	56855 (1.2 MACs/cycle)
cxfir32x16_process	N=160; M=8	4502 (1.1 MACs/cycle)	4462 (1.1 MACs/cycle)	4462 (1.1 MACs/cycle)
cxfir32x16_process	N=160; M=16	7062 (1.5 MACs/cycle)	7022 (1.5 MACs/cycle)	7022 (1.5 MACs/cycle)
cxfir32x16_process	N=1024; M=32	77843 (1.7 MACs/cycle)	77587 (1.7 MACs/cycle)	77587 (1.7 MACs/cycle)
cxfir24x24_process	N=80; M=128	21264 (1.9 MACs/cycle)	21264 (1.9 MACs/cycle)	21264 (1.9 MACs/cycle)
cxfir24x24_process	N=2048; M=8	52249 (1.3 MACs/cycle)	52249 (1.3 MACs/cycle)	52249 (1.3 MACs/cycle)
cxfir24x24_process	N=160; M=8	4104 (1.2 MACs/cycle)	4104 (1.2 MACs/cycle)	4104 (1.2 MACs/cycle)
cxfir24x24_process	N=160; M=16	6665 (1.5 MACs/cycle)	6665 (1.5 MACs/cycle)	6665 (1.5 MACs/cycle)
cxfir24x24_process	N=1024; M=32	75285 (1.7 MACs/cycle)	75285 (1.7 MACs/cycle)	75285 (1.7 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=2	15939 (1.0 MACs/cycle)	15939 (1.0 MACs/cycle)	15939 (1.0 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=2	138802 (1.9 MACs/cycle)	138802 (1.9 MACs/cycle)	138802 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=2	140850 (1.9 MACs/cycle)	140850 (1.9 MACs/cycle)	140850 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=2	142898 (1.9 MACs/cycle)	142898 (1.9 MACs/cycle)	142898 (1.9 MACs/cycle)
firdec32x16_process	N=80; M=256; D=2	10890 (1.9 MACs/cycle)	10890 (1.9 MACs/cycle)	10890 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=3	20784 (0.8 MACs/cycle)	20784 (0.8 MACs/cycle)	20784 (0.8 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=3	159024 (1.6 MACs/cycle)	159024 (1.6 MACs/cycle)	159024 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=3	161327 (1.7 MACs/cycle)	161327 (1.7 MACs/cycle)	161327 (1.7 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=3	163631 (1.6 MACs/cycle)	163631 (1.6 MACs/cycle)	163631 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=4	23089 (0.7 MACs/cycle)	23089 (0.7 MACs/cycle)	23089 (0.7 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=4	146481 (1.8 MACs/cycle)	146481 (1.8 MACs/cycle)	146481 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=4	148529 (1.8 MACs/cycle)	148529 (1.8 MACs/cycle)	148529 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=4	150577 (1.8 MACs/cycle)	150577 (1.8 MACs/cycle)	150577 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=5	161071 (1.6 MACs/cycle)	161071 (1.6 MACs/cycle)	161071 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=5	163375 (1.6 MACs/cycle)	163375 (1.6 MACs/cycle)	163375 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=7	163119 (1.6 MACs/cycle)	163119 (1.6 MACs/cycle)	163119 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=7	165421 (1.6 MACs/cycle)	165421 (1.6 MACs/cycle)	165421 (1.6 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=2	15680 (1.0 MACs/cycle)	15680 (1.0 MACs/cycle)	15680 (1.0 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=2	138543 (1.9 MACs/cycle)	138543 (1.9 MACs/cycle)	138543 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=2	140591 (1.9 MACs/cycle)	140591 (1.9 MACs/cycle)	140591 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=2	141103 (1.9 MACs/cycle)	141103 (1.9 MACs/cycle)	141103 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=3	18742 (0.9 MACs/cycle)	18742 (0.9 MACs/cycle)	18742 (0.9 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=3	156983 (1.7 MACs/cycle)	156983 (1.7 MACs/cycle)	156983 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=3	159287 (1.7 MACs/cycle)	159287 (1.7 MACs/cycle)	159287 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=3	160438 (1.7 MACs/cycle)	160438 (1.7 MACs/cycle)	160438 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=4	25649 (0.6 MACs/cycle)	25649 (0.6 MACs/cycle)	25649 (0.6 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=4	149041 (1.8 MACs/cycle)	149041 (1.8 MACs/cycle)	149041 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=4	150577 (1.8 MACs/cycle)	150577 (1.8 MACs/cycle)	150577 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=4	151601 (1.8 MACs/cycle)	151601 (1.8 MACs/cycle)	151601 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=5	177200 (1.5 MACs/cycle)	177200 (1.5 MACs/cycle)	177200 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=5	179760 (1.5 MACs/cycle)	179760 (1.5 MACs/cycle)	179760 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=7	179248 (1.5 MACs/cycle)	179248 (1.5 MACs/cycle)	179248 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=7	181808 (1.5 MACs/cycle)	181808 (1.5 MACs/cycle)	181808 (1.5 MACs/cycle)
firdec24x24_process	N=80; M=256; D=2	10865 (1.9 MACs/cycle)	10865 (1.9 MACs/cycle)	10865 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=2	33825 (1.0 MACs/cycle)	33825 (1.0 MACs/cycle)	33825 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=2	279585 (1.9 MACs/cycle)	279585 (1.9 MACs/cycle)	279585 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=2	283681 (1.9 MACs/cycle)	283681 (1.9 MACs/cycle)	283681 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=3	48161 (1.0 MACs/cycle)	48161 (1.0 MACs/cycle)	48161 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=3	416801 (1.9 MACs/cycle)	416801 (1.9 MACs/cycle)	416801 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=3	422945 (1.9 MACs/cycle)	422945 (1.9 MACs/cycle)	422945 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=4	62497 (1.0 MACs/cycle)	62497 (1.0 MACs/cycle)	62497 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=4	554017 (1.9 MACs/cycle)	554017 (1.9 MACs/cycle)	554017 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=4	562209 (1.9 MACs/cycle)	562209 (1.9 MACs/cycle)	562209 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=5	691233 (1.9 MACs/cycle)	691233 (1.9 MACs/cycle)	691233 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=5	701473 (1.9 MACs/cycle)	701473 (1.9 MACs/cycle)	701473 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=7	965665 (1.9 MACs/cycle)	965665 (1.9 MACs/cycle)	965665 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=7	980001 (1.9 MACs/cycle)	980001 (1.9 MACs/cycle)	980001 (1.9 MACs/cycle)
firinterp32x16_process	N=80; M=204; D=2	17711 (1.8 MACs/cycle)	17711 (1.8 MACs/cycle)	17711 (1.8 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=2	33825 (1.0 MACs/cycle)	33825 (1.0 MACs/cycle)	33825 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=2	279585 (1.9 MACs/cycle)	279585 (1.9 MACs/cycle)	279585 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=2	283681 (1.9 MACs/cycle)	283681 (1.9 MACs/cycle)	283681 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=3	48161 (1.0 MACs/cycle)	48161 (1.0 MACs/cycle)	48161 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=3	416801 (1.9 MACs/cycle)	416801 (1.9 MACs/cycle)	416801 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=3	422945 (1.9 MACs/cycle)	422945 (1.9 MACs/cycle)	422945 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=4	62497 (1.0 MACs/cycle)	62497 (1.0 MACs/cycle)	62497 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=4	554017 (1.9 MACs/cycle)	554017 (1.9 MACs/cycle)	554017 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=4	562209 (1.9 MACs/cycle)	562209 (1.9 MACs/cycle)	562209 (1.9 MACs/cycle)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
firinterp24x24_process	N=1024; M=256; D=5	691233 (1.9 MACs/cycle)	691233 (1.9 MACs/cycle)	691233 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=5	701473 (1.9 MACs/cycle)	701473 (1.9 MACs/cycle)	701473 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=7	965665 (1.9 MACs/cycle)	965665 (1.9 MACs/cycle)	965665 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=7	980001 (1.9 MACs/cycle)	980001 (1.9 MACs/cycle)	980001 (1.9 MACs/cycle)
firinterp24x24_process	N=80; M=204; D=2	17711 (1.8 MACs/cycle)	17711 (1.8 MACs/cycle)	17711 (1.8 MACs/cycle)
fir_convolf32x16	N=80; M=56	2539 (1.8 MACs/cycle)	2539 (1.8 MACs/cycle)	2539 (1.8 MACs/cycle)
fir_convolf32x16	N=256; M=80	11154 (1.8 MACs/cycle)	11154 (1.8 MACs/cycle)	11154 (1.8 MACs/cycle)
fir_convolf24x24	N=80; M=56	2539 (1.8 MACs/cycle)	2539 (1.8 MACs/cycle)	2539 (1.8 MACs/cycle)
fir_convolf24x24	N=256; M=80	11154 (1.8 MACs/cycle)	11154 (1.8 MACs/cycle)	11154 (1.8 MACs/cycle)
fir_convola32x16	N=80; M=56	2786 (1.6 MACs/cycle)	2786 (1.6 MACs/cycle)	2786 (1.6 MACs/cycle)
fir_convola32x16	N=256; M=80	11658 (1.8 MACs/cycle)	11658 (1.8 MACs/cycle)	11658 (1.8 MACs/cycle)
fir_convola24x24	N=80; M=56	2854 (1.6 MACs/cycle)	2854 (1.6 MACs/cycle)	2854 (1.6 MACs/cycle)
fir_convola24x24	N=256; M=80	11826 (1.7 MACs/cycle)	11826 (1.7 MACs/cycle)	11826 (1.7 MACs/cycle)
cxfir_convolf32x16	N=80; M=56	9778 (1.8 MACs/cycle)	9778 (1.8 MACs/cycle)	9778 (1.8 MACs/cycle)
cxfir_convolf32x16	N=256; M=80	43538 (1.9 MACs/cycle)	43538 (1.9 MACs/cycle)	43538 (1.9 MACs/cycle)
cxfir_convola32x16	N=80; M=56	10230 (1.8 MACs/cycle)	10231 (1.8 MACs/cycle)	10231 (1.8 MACs/cycle)
cxfir_convola32x16	N=256; M=80	44590 (1.8 MACs/cycle)	44590 (1.8 MACs/cycle)	44590 (1.8 MACs/cycle)
fir_xcorr32x16	N=80; M=56	2559 (1.8 MACs/cycle)	2559 (1.8 MACs/cycle)	2559 (1.8 MACs/cycle)
fir_xcorr32x16	N=256; M=80	11219 (1.8 MACs/cycle)	11219 (1.8 MACs/cycle)	11219 (1.8 MACs/cycle)
fir_xcorr24x24	N=80; M=56	2560 (1.8 MACs/cycle)	2559 (1.8 MACs/cycle)	2559 (1.8 MACs/cycle)
fir_xcorr24x24	N=256; M=80	11219 (1.8 MACs/cycle)	11219 (1.8 MACs/cycle)	11219 (1.8 MACs/cycle)
fir_xcorra32x16	N=80; M=56	2783 (1.6 MACs/cycle)	2783 (1.6 MACs/cycle)	2783 (1.6 MACs/cycle)
fir_xcorra32x16	N=256; M=80	11655 (1.8 MACs/cycle)	11655 (1.8 MACs/cycle)	11655 (1.8 MACs/cycle)
fir_xcorra24x24	N=80; M=56	2849 (1.6 MACs/cycle)	2849 (1.6 MACs/cycle)	2849 (1.6 MACs/cycle)
fir_xcorra24x24	N=256; M=80	11821 (1.7 MACs/cycle)	11821 (1.7 MACs/cycle)	11821 (1.7 MACs/cycle)
fir_acorr24x24	N=80	3541 (1.8 MACs/cycle)	3541 (1.8 MACs/cycle)	3541 (1.8 MACs/cycle)
fir_acorr24x24	N=256	33752 (1.9 MACs/cycle)	33752 (1.9 MACs/cycle)	33752 (1.9 MACs/cycle)
fir_acorra24x24	N=80	3856 (1.7 MACs/cycle)	3856 (1.7 MACs/cycle)	3856 (1.7 MACs/cycle)
fir_acorra24x24	N=256	34746 (1.9 MACs/cycle)	34746 (1.9 MACs/cycle)	34745 (1.9 MACs/cycle)
fir_blms16x32	N=80; M=16	1931 (1.3 MACs/cycle)	1923 (1.3 MACs/cycle)	1923 (1.3 MACs/cycle)
fir_blms16x32	N=64; M=16	1585 (1.3 MACs/cycle)	1579 (1.3 MACs/cycle)	1579 (1.3 MACs/cycle)
fir_blms16x32	N=64; M=64	5029 (1.6 MACs/cycle)	5023 (1.6 MACs/cycle)	5023 (1.6 MACs/cycle)
fir_blms16x32	N=80; M=64	6143 (1.7 MACs/cycle)	6135 (1.7 MACs/cycle)	6135 (1.7 MACs/cycle)
fir_blms16x32	N=80; M=128	11759 (1.7 MACs/cycle)	11751 (1.7 MACs/cycle)	11751 (1.7 MACs/cycle)
fir_blms16x32	N=64; M=128	9621 (1.7 MACs/cycle)	9615 (1.7 MACs/cycle)	9615 (1.7 MACs/cycle)
fir_blms24x24	N=80; M=16	1953 (1.3 MACs/cycle)	1953 (1.3 MACs/cycle)	1955 (1.3 MACs/cycle)
fir_blms24x24	N=64; M=16	1609 (1.3 MACs/cycle)	1609 (1.3 MACs/cycle)	1611 (1.3 MACs/cycle)
fir_blms24x24	N=64; M=64	5101 (1.6 MACs/cycle)	5101 (1.6 MACs/cycle)	5101 (1.6 MACs/cycle)
fir_blms24x24	N=80; M=64	6213 (1.6 MACs/cycle)	6213 (1.6 MACs/cycle)	6215 (1.6 MACs/cycle)
fir_blms24x24	N=80; M=128	11893 (1.7 MACs/cycle)	11893 (1.7 MACs/cycle)	11895 (1.7 MACs/cycle)
fir_blms24x24	N=64; M=128	9757 (1.7 MACs/cycle)	9757 (1.7 MACs/cycle)	9757 (1.7 MACs/cycle)
bkfiraf_process	N=512; M=32	20509 (0.8 MACs/cycle)	20509 (0.8 MACs/cycle)	20509 (0.8 MACs/cycle)
bkfiraf_process	N=1024; M=32	40989 (0.8 MACs/cycle)	40989 (0.8 MACs/cycle)	40989 (0.8 MACs/cycle)
bkfiraf_process	N=1024; M=256	270365 (1.0 MACs/cycle)	270365 (1.0 MACs/cycle)	270365 (1.0 MACs/cycle)
bkfiraf_process	N=1024; M=512	532509 (1.0 MACs/cycle)	532509 (1.0 MACs/cycle)	532509 (1.0 MACs/cycle)
bkfirf_process	N=512; M=32	20377 (0.8 MACs/cycle)	20377 (0.8 MACs/cycle)	20377 (0.8 MACs/cycle)
bkfirf_process	N=1024; M=32	40729 (0.8 MACs/cycle)	40729 (0.8 MACs/cycle)	40729 (0.8 MACs/cycle)
bkfirf_process	N=1024; M=256	270105 (1.0 MACs/cycle)	270105 (1.0 MACs/cycle)	270105 (1.0 MACs/cycle)
bkfirf_process	N=1024; M=512	532249 (1.0 MACs/cycle)	532249 (1.0 MACs/cycle)	532249 (1.0 MACs/cycle)
cxfirf_process	N=512; M=32	72217 (0.9 MACs/cycle)	72217 (0.9 MACs/cycle)	72217 (0.9 MACs/cycle)
cxfirf_process	N=512; M=256	530969 (1.0 MACs/cycle)	530969 (1.0 MACs/cycle)	530969 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=2	277547 (0.9 MACs/cycle)	277547 (0.9 MACs/cycle)	277547 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=2	539691 (1.0 MACs/cycle)	539691 (1.0 MACs/cycle)	539691 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=3	283690 (0.9 MACs/cycle)	283690 (0.9 MACs/cycle)	283690 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=3	545834 (1.0 MACs/cycle)	545834 (1.0 MACs/cycle)	545834 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=4	288298 (0.9 MACs/cycle)	288298 (0.9 MACs/cycle)	288298 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=4	550442 (1.0 MACs/cycle)	550442 (1.0 MACs/cycle)	550442 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=8	310318 (0.8 MACs/cycle)	310318 (0.8 MACs/cycle)	310318 (0.8 MACs/cycle)
firdecf_process	N=1024; M=512; D=8	572462 (0.9 MACs/cycle)	572462 (0.9 MACs/cycle)	572462 (0.9 MACs/cycle)
firdecf_process	N=1024; M=256; D=11	316462 (0.8 MACs/cycle)	316462 (0.8 MACs/cycle)	316462 (0.8 MACs/cycle)
firdecf_process	N=1024; M=512; D=11	578606 (0.9 MACs/cycle)	578606 (0.9 MACs/cycle)	578606 (0.9 MACs/cycle)
firdecf_process	N=1024; M=256; D=23	341038 (0.8 MACs/cycle)	341038 (0.8 MACs/cycle)	341038 (0.8 MACs/cycle)
firdecf_process	N=1024; M=512; D=23	603180 (0.9 MACs/cycle)	603180 (0.9 MACs/cycle)	603180 (0.9 MACs/cycle)
firinterpf_process	N=1024; M=256; D=2	534060 (1.0 MACs/cycle)	534060 (1.0 MACs/cycle)	534060 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=2	1058348 (1.0 MACs/cycle)	1058348 (1.0 MACs/cycle)	1058348 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=3	798254 (1.0 MACs/cycle)	798254 (1.0 MACs/cycle)	798254 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=3	1584686 (1.0 MACs/cycle)	1584686 (1.0 MACs/cycle)	1584686 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=4	1066032 (1.0 MACs/cycle)	1066032 (1.0 MACs/cycle)	1066032 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=4	2114608 (1.0 MACs/cycle)	2114608 (1.0 MACs/cycle)	2114608 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=8	2146865 (1.0 MACs/cycle)	2146865 (1.0 MACs/cycle)	2146865 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=8	4244014 (1.0 MACs/cycle)	4244014 (1.0 MACs/cycle)	4244014 (1.0 MACs/cycle)
fir_convolf	N=80; M=56	4784 (0.9 MACs/cycle)	4784 (0.9 MACs/cycle)	4784 (0.9 MACs/cycle)
fir_convolf	N=256; M=80	21400 (1.0 MACs/cycle)	21400 (1.0 MACs/cycle)	21400 (1.0 MACs/cycle)
fir_convola	N=80; M=56	5202 (0.9 MACs/cycle)	5202 (0.9 MACs/cycle)	5202 (0.9 MACs/cycle)
fir_convola	N=256; M=80	22438 (0.9 MACs/cycle)	22438 (0.9 MACs/cycle)	22438 (0.9 MACs/cycle)
fir_xcorr	N=80; M=56	4802 (0.9 MACs/cycle)	4802 (0.9 MACs/cycle)	4802 (0.9 MACs/cycle)
fir_xcorr	N=256; M=80	21462 (1.0 MACs/cycle)	21462 (1.0 MACs/cycle)	21462 (1.0 MACs/cycle)
cxfir_xcorr	N=80; M=56	18461 (1.0 MACs/cycle)	18461 (1.0 MACs/cycle)	18460 (1.0 MACs/cycle)
cxfir_xcorr	N=256; M=80	83604 (1.0 MACs/cycle)	83604 (1.0 MACs/cycle)	83604 (1.0 MACs/cycle)
fir_xcorra	N=80; M=56	5145 (0.9 MACs/cycle)	5145 (0.9 MACs/cycle)	5145 (0.9 MACs/cycle)
fir_xcorra	N=256; M=80	22357 (0.9 MACs/cycle)	22357 (0.9 MACs/cycle)	22357 (0.9 MACs/cycle)
cxfir_xcorra	N=80; M=56	18506 (1.0 MACs/cycle)	18506 (1.0 MACs/cycle)	18506 (1.0 MACs/cycle)
cxfir_xcorra	N=256; M=80	83738 (1.0 MACs/cycle)	83738 (1.0 MACs/cycle)	83738 (1.0 MACs/cycle)
fir_acorr	N=80	6745 (0.9 MACs/cycle)	6745 (0.9 MACs/cycle)	6745 (0.9 MACs/cycle)
fir_acorr	N=256	66523 (1.0 MACs/cycle)	66523 (1.0 MACs/cycle)	66523 (1.0 MACs/cycle)
fir_acorra	N=80	7133 (0.9 MACs/cycle)	7133 (0.9 MACs/cycle)	7133 (0.9 MACs/cycle)
fir_acorra	N=256	67634 (1.0 MACs/cycle)	67634 (1.0 MACs/cycle)	67635 (1.0 MACs/cycle)
fir_blmsf	N=80; M=16	3183 (0.8 MACs/cycle)	3183 (0.8 MACs/cycle)	3183 (0.8 MACs/cycle)
fir_blmsf	N=64; M=16	2572 (0.8 MACs/cycle)	2572 (0.8 MACs/cycle)	2572 (0.8 MACs/cycle)
fir_blmsf	N=64; M=64	8956 (0.9 MACs/cycle)	8956 (0.9 MACs/cycle)	8956 (0.9 MACs/cycle)
fir_blmsf	N=80; M=64	11104 (0.9 MACs/cycle)	11104 (0.9 MACs/cycle)	11104 (0.9 MACs/cycle)
fir_blmsf	N=80; M=128	21662 (0.9 MACs/cycle)	21662 (0.9 MACs/cycle)	21662 (0.9 MACs/cycle)
fir_blmsf	N=64; M=128	17466 (0.9 MACs/cycle)	17466 (0.9 MACs/cycle)	17466 (0.9 MACs/cycle)
bkfir16x16_process	N=512; M=256	35043 (3.7 MACs/cycle)	35043 (3.7 MACs/cycle)	68248 (1.9 MACs/cycle)
bkfir16x16_process	N=512; M=32	6369 (2.6 MACs/cycle)	6369 (2.6 MACs/cycle)	10902 (1.5 MACs/cycle)
bkfira16x16_process	N=512; M=256	45229 (2.9 MACs/cycle)	45229 (2.9 MACs/cycle)	68771 (1.9 MACs/cycle)
bkfira16x16_process	N=512; M=32	9387 (1.7 MACs/cycle)	9387 (1.7 MACs/cycle)	11425 (1.4 MACs/cycle)
cxfir16x16_process	N=512; M=256	136993 (3.8 MACs/cycle)	136993 (3.8 MACs/cycle)	268440 (2.0 MACs/cycle)
cxfir16x16_process	N=512; M=32	22303 (2.9 MACs/cycle)	22303 (2.9 MACs/cycle)	39062 (1.7 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=2	9772 (1.7 MACs/cycle)	9772 (1.7 MACs/cycle)	16963 (1.0 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=2	71213 (3.7 MACs/cycle)	71213 (3.7 MACs/cycle)	139827 (1.9 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=2	72237 (3.7 MACs/cycle)	72237 (3.7 MACs/cycle)	141875 (1.9 MACs/cycle)



Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
firdec16x16_process	N=1024; M=261; D=2	73261 (3.6 MACs/cycle)	73261 (3.6 MACs/cycle)	143923 (1.9 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=3	13104 (1.3 MACs/cycle)	13104 (1.3 MACs/cycle)	20271 (0.8 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=3	89905 (2.9 MACs/cycle)	89905 (2.9 MACs/cycle)	158512 (1.7 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=3	91185 (2.9 MACs/cycle)	91185 (2.9 MACs/cycle)	160816 (1.7 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=3	92463 (2.9 MACs/cycle)	92463 (2.9 MACs/cycle)	163118 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=4	10540 (1.6 MACs/cycle)	10540 (1.6 MACs/cycle)	24626 (0.7 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=4	71980 (3.6 MACs/cycle)	71980 (3.6 MACs/cycle)	148018 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=4	73004 (3.6 MACs/cycle)	73004 (3.6 MACs/cycle)	150066 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=4	74028 (3.6 MACs/cycle)	74028 (3.6 MACs/cycle)	152114 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=5	91698 (2.9 MACs/cycle)	91698 (2.9 MACs/cycle)	161071 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=5	92978 (2.9 MACs/cycle)	92978 (2.9 MACs/cycle)	163375 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=7	92722 (2.8 MACs/cycle)	92722 (2.8 MACs/cycle)	163631 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=7	94002 (2.8 MACs/cycle)	94002 (2.8 MACs/cycle)	165935 (1.6 MACs/cycle)
firdec16x16_process	N=80; M=256; D=2	5602 (3.7 MACs/cycle)	5602 (3.7 MACs/cycle)	10968 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=2	17220 (1.9 MACs/cycle)	17220 (1.9 MACs/cycle)	38178 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=2	140082 (3.7 MACs/cycle)	140082 (3.7 MACs/cycle)	283938 (1.8 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=2	142130 (3.7 MACs/cycle)	142130 (3.7 MACs/cycle)	288034 (1.8 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=3	34612 (1.4 MACs/cycle)	34612 (1.4 MACs/cycle)	54562 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=3	218932 (3.6 MACs/cycle)	218932 (3.6 MACs/cycle)	423202 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=3	222004 (3.6 MACs/cycle)	222004 (3.6 MACs/cycle)	429346 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=4	39224 (1.7 MACs/cycle)	39224 (1.7 MACs/cycle)	70946 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=4	284984 (3.7 MACs/cycle)	284984 (3.7 MACs/cycle)	562466 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=4	289080 (3.7 MACs/cycle)	289080 (3.7 MACs/cycle)	570658 (1.8 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=5	362934 (3.6 MACs/cycle)	362934 (3.6 MACs/cycle)	701730 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=5	368054 (3.6 MACs/cycle)	368054 (3.6 MACs/cycle)	711970 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=7	506806 (3.6 MACs/cycle)	506806 (3.6 MACs/cycle)	980258 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=7	513974 (3.6 MACs/cycle)	513974 (3.6 MACs/cycle)	994594 (1.9 MACs/cycle)
firinterp16x16_process	N=80; M=204; D=2	8907 (3.7 MACs/cycle)	8907 (3.7 MACs/cycle)	18051 (1.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=2	46538 (1.4 MACs/cycle)	46538 (1.4 MACs/cycle)	78399 (0.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=2	292280 (3.6 MACs/cycle)	292280 (3.6 MACs/cycle)	569919 (1.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=2	296376 (3.6 MACs/cycle)	296376 (3.6 MACs/cycle)	578111 (1.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=3	78904 (1.2 MACs/cycle)	78904 (1.2 MACs/cycle)	111679 (0.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=3	447544 (3.5 MACs/cycle)	447544 (3.5 MACs/cycle)	848959 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=3	453688 (3.5 MACs/cycle)	453688 (3.5 MACs/cycle)	861247 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=4	87480 (1.5 MACs/cycle)	87480 (1.5 MACs/cycle)	144959 (0.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=4	579000 (3.6 MACs/cycle)	579000 (3.6 MACs/cycle)	1127999 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=4	587192 (3.6 MACs/cycle)	587192 (3.6 MACs/cycle)	1144383 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=5	732475 (3.6 MACs/cycle)	732475 (3.6 MACs/cycle)	1407039 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=5	742715 (3.6 MACs/cycle)	742715 (3.6 MACs/cycle)	1427519 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=7	1023035 (3.6 MACs/cycle)	1023035 (3.6 MACs/cycle)	1965119 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=7	1037371 (3.6 MACs/cycle)	1037371 (3.6 MACs/cycle)	1993791 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=80; M=204; D=2	18723 (3.5 MACs/cycle)	18723 (3.5 MACs/cycle)	36260 (1.8 MACs/cycle)
bkfira32x32_process	N=512; M=256	135591 (1.0 MACs/cycle)	135591 (1.0 MACs/cycle)	135591 (1.0 MACs/cycle)
bkfira32x32_process	N=512; M=32	20901 (0.8 MACs/cycle)	20901 (0.8 MACs/cycle)	20901 (0.8 MACs/cycle)
cxfir32x32_process	N=512; M=256	528926 (1.0 MACs/cycle)	528926 (1.0 MACs/cycle)	528926 (1.0 MACs/cycle)
cxfir32x32_process	N=512; M=32	70172 (0.9 MACs/cycle)	70172 (0.9 MACs/cycle)	70172 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=2	25644 (0.6 MACs/cycle)	25644 (0.6 MACs/cycle)	25644 (0.6 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=2	271404 (1.0 MACs/cycle)	271404 (1.0 MACs/cycle)	271404 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=2	275500 (1.0 MACs/cycle)	275500 (1.0 MACs/cycle)	275500 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=2	279596 (1.0 MACs/cycle)	279596 (1.0 MACs/cycle)	279596 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=3	27695 (0.6 MACs/cycle)	27695 (0.6 MACs/cycle)	27695 (0.6 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=3	273456 (1.0 MACs/cycle)	273456 (1.0 MACs/cycle)	273456 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=3	277552 (1.0 MACs/cycle)	277552 (1.0 MACs/cycle)	277552 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=3	281647 (0.9 MACs/cycle)	281647 (0.9 MACs/cycle)	281647 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=4	29997 (0.5 MACs/cycle)	29997 (0.5 MACs/cycle)	29997 (0.5 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=4	275757 (1.0 MACs/cycle)	275757 (1.0 MACs/cycle)	275757 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=4	279853 (1.0 MACs/cycle)	279853 (1.0 MACs/cycle)	279853 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=4	283949 (0.9 MACs/cycle)	283949 (0.9 MACs/cycle)	283949 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=5	277041 (0.9 MACs/cycle)	277041 (0.9 MACs/cycle)	277041 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=5	281137 (0.9 MACs/cycle)	281137 (0.9 MACs/cycle)	281137 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=7	279089 (0.9 MACs/cycle)	279089 (0.9 MACs/cycle)	279089 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=7	283185 (0.9 MACs/cycle)	283185 (0.9 MACs/cycle)	283185 (0.9 MACs/cycle)
firdec32x32_process	N=80; M=256; D=2	21241 (1.0 MACs/cycle)	21241 (1.0 MACs/cycle)	21241 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=16; D=2	47941 (0.7 MACs/cycle)	47941 (0.7 MACs/cycle)	47941 (0.7 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=2	539444 (1.0 MACs/cycle)	539444 (1.0 MACs/cycle)	539444 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=2	547636 (1.0 MACs/cycle)	547636 (1.0 MACs/cycle)	547636 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=16; D=3	81716 (0.6 MACs/cycle)	81716 (0.6 MACs/cycle)	81716 (0.6 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=3	818996 (1.0 MACs/cycle)	818996 (1.0 MACs/cycle)	818996 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=3	831284 (1.0 MACs/cycle)	831284 (1.0 MACs/cycle)	831284 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=16; D=4	105780 (0.6 MACs/cycle)	105780 (0.6 MACs/cycle)	105780 (0.6 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=4	1088820 (1.0 MACs/cycle)	1088820 (1.0 MACs/cycle)	1088820 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=4	1105204 (1.0 MACs/cycle)	1105204 (1.0 MACs/cycle)	1105204 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=5	1355831 (1.0 MACs/cycle)	1355831 (1.0 MACs/cycle)	1355831 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=5	1376310 (1.0 MACs/cycle)	1376310 (1.0 MACs/cycle)	1376310 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=7	1895990 (1.0 MACs/cycle)	1895990 (1.0 MACs/cycle)	1895990 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=7	1924662 (1.0 MACs/cycle)	1924662 (1.0 MACs/cycle)	1924662 (1.0 MACs/cycle)
firinterp32x32_process	N=80; M=204; D=2	33869 (1.0 MACs/cycle)	33869 (1.0 MACs/cycle)	33869 (1.0 MACs/cycle)
fir_acorr16x16	N=80	2005 (3.2 MACs/cycle)	2005 (3.2 MACs/cycle)	3663 (1.7 MACs/cycle)
fir_acorr16x16	N=256	17541 (3.7 MACs/cycle)	17541 (3.7 MACs/cycle)	34137 (1.9 MACs/cycle)
fir_xcorr16x16	N=80; M=56	1501 (3.0 MACs/cycle)	1501 (3.0 MACs/cycle)	2679 (1.7 MACs/cycle)
fir_xcorr16x16	N=256; M=80	6271 (3.3 MACs/cycle)	6271 (3.3 MACs/cycle)	11603 (1.8 MACs/cycle)
fir_convov16x16	N=80; M=56	1471 (3.0 MACs/cycle)	1471 (3.0 MACs/cycle)	2619 (1.7 MACs/cycle)
fir_convov16x16	N=256; M=80	6175 (3.3 MACs/cycle)	6175 (3.3 MACs/cycle)	11411 (1.8 MACs/cycle)
fir_acorra16x16	N=80	2126 (3.0 MACs/cycle)	2126 (3.0 MACs/cycle)	3835 (1.7 MACs/cycle)
fir_acorra16x16	N=256	17839 (3.7 MACs/cycle)	17839 (3.7 MACs/cycle)	34574 (1.9 MACs/cycle)
fir_xcorra16x16	N=80; M=56	1622 (2.8 MACs/cycle)	1622 (2.8 MACs/cycle)	2851 (1.6 MACs/cycle)
fir_xcorra16x16	N=256; M=80	6398 (3.2 MACs/cycle)	6398 (3.2 MACs/cycle)	11869 (1.7 MACs/cycle)
fir_convola16x16	N=80; M=56	1624 (2.8 MACs/cycle)	1624 (2.8 MACs/cycle)	2853 (1.6 MACs/cycle)
fir_convola16x16	N=256; M=80	6401 (3.2 MACs/cycle)	6401 (3.2 MACs/cycle)	11872 (1.7 MACs/cycle)
fir_lacorra16x16	N=80	1334 (2.4 MACs/cycle)	1334 (2.4 MACs/cycle)	2185 (1.5 MACs/cycle)
fir_lacorra16x16	N=256	9740 (3.4 MACs/cycle)	9740 (3.4 MACs/cycle)	18159 (1.8 MACs/cycle)
fir_lxcorra16x16	N=80; M=56	2052 (2.2 MACs/cycle)	2052 (2.2 MACs/cycle)	3636 (1.2 MACs/cycle)
fir_lxcorra16x16	N=256; M=80	6910 (3.0 MACs/cycle)	6910 (3.0 MACs/cycle)	12947 (1.6 MACs/cycle)
fir_lconvola16x16	N=80; M=56	2051 (2.2 MACs/cycle)	2051 (2.2 MACs/cycle)	3635 (1.2 MACs/cycle)
fir_lconvola16x16	N=256; M=80	6910 (3.0 MACs/cycle)	6910 (3.0 MACs/cycle)	12947 (1.6 MACs/cycle)
fir_lxcorra32x16	N=80; M=56	3177 (1.4 MACs/cycle)	3177 (1.4 MACs/cycle)	3177 (1.4 MACs/cycle)
fir_lxcorra32x16	N=256; M=80	12175 (1.7 MACs/cycle)	12175 (1.7 MACs/cycle)	12175 (1.7 MACs/cycle)
fir_lconvola32x16	N=80; M=56	3178 (1.4 MACs/cycle)	3178 (1.4 MACs/cycle)	3178 (1.4 MACs/cycle)
fir_lconvola32x16	N=256; M=80	12176 (1.7 MACs/cycle)	12176 (1.7 MACs/cycle)	12176 (1.7 MACs/cycle)
fir_acorr32x32	N=80	6637 (1.0 MACs/cycle)	6637 (1.0 MACs/cycle)	6637 (1.0 MACs/cycle)
fir_acorr32x32	N=256	66257 (1.0 MACs/cycle)	66257 (1.0 MACs/cycle)	66257 (1.0 MACs/cycle)
fir_xcorr32x32	N=80; M=56	4718 (0.9 MACs/cycle)	4718 (0.9 MACs/cycle)	4718 (0.9 MACs/cycle)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
fir_xcorr32x32	N=256; M=80	21202 (1.0 MACs/cycle)	21202 (1.0 MACs/cycle)	21202 (1.0 MACs/cycle)
fir_conv32x32	N=80; M=56	4719 (0.9 MACs/cycle)	4719 (0.9 MACs/cycle)	4719 (0.9 MACs/cycle)
fir_conv32x32	N=256; M=80	21203 (1.0 MACs/cycle)	21203 (1.0 MACs/cycle)	21203 (1.0 MACs/cycle)
fir_acorra32x32	N=80	6972 (0.9 MACs/cycle)	6972 (0.9 MACs/cycle)	6972 (0.9 MACs/cycle)
fir_acorra32x32	N=256	67254 (1.0 MACs/cycle)	67254 (1.0 MACs/cycle)	67254 (1.0 MACs/cycle)
fir_xcorr32x32	N=80; M=56	4983 (0.9 MACs/cycle)	4983 (0.9 MACs/cycle)	4983 (0.9 MACs/cycle)
fir_xcorr32x32	N=256; M=80	21673 (0.9 MACs/cycle)	21673 (0.9 MACs/cycle)	21673 (0.9 MACs/cycle)
fir_conv32x32	N=80; M=56	4984 (0.9 MACs/cycle)	4984 (0.9 MACs/cycle)	4984 (0.9 MACs/cycle)
fir_conv32x32	N=256; M=80	21675 (0.9 MACs/cycle)	21675 (0.9 MACs/cycle)	21675 (0.9 MACs/cycle)
fir_lacorra32x32	N=80	3801 (0.8 MACs/cycle)	3801 (0.8 MACs/cycle)	3801 (0.8 MACs/cycle)
fir_lacorra32x32	N=256	34603 (0.9 MACs/cycle)	34603 (0.9 MACs/cycle)	34603 (0.9 MACs/cycle)
fir_lxcorr32x32	N=80; M=56	5347 (0.8 MACs/cycle)	5347 (0.8 MACs/cycle)	5347 (0.8 MACs/cycle)
fir_lxcorr32x32	N=256; M=80	22151 (0.9 MACs/cycle)	22151 (0.9 MACs/cycle)	22151 (0.9 MACs/cycle)
fir_lconv32x32	N=80; M=56	5348 (0.8 MACs/cycle)	5348 (0.8 MACs/cycle)	5348 (0.8 MACs/cycle)
fir_lconv32x32	N=256; M=80	22153 (0.9 MACs/cycle)	22153 (0.9 MACs/cycle)	22153 (0.9 MACs/cycle)
fir_lacorr32	N=80	3672 (0.9 MACs/cycle)	3672 (0.9 MACs/cycle)	3672 (0.9 MACs/cycle)
fir_lacorr32	N=256	34166 (1.0 MACs/cycle)	34166 (1.0 MACs/cycle)	34166 (1.0 MACs/cycle)
fir_lxcorr32	N=80; M=56	5562 (0.8 MACs/cycle)	5562 (0.8 MACs/cycle)	5562 (0.8 MACs/cycle)
fir_lxcorr32	N=256; M=80	22702 (0.9 MACs/cycle)	22702 (0.9 MACs/cycle)	22702 (0.9 MACs/cycle)
fir_lconv32	N=80; M=56	5564 (0.8 MACs/cycle)	5564 (0.8 MACs/cycle)	5564 (0.8 MACs/cycle)
fir_lconv32	N=256; M=80	22705 (0.9 MACs/cycle)	22705 (0.9 MACs/cycle)	22705 (0.9 MACs/cycle)
fir_blms16x16	N=80; M=16	1223 (2.1 MACs/cycle)	1223 (2.1 MACs/cycle)	1954 (1.3 MACs/cycle)
fir_blms16x16	N=64; M=16	1018 (2.0 MACs/cycle)	1018 (2.0 MACs/cycle)	1601 (1.3 MACs/cycle)
fir_blms16x16	N=64; M=64	2878 (2.8 MACs/cycle)	2878 (2.8 MACs/cycle)	4997 (1.6 MACs/cycle)
fir_blms16x16	N=80; M=64	3467 (3.0 MACs/cycle)	3467 (3.0 MACs/cycle)	6118 (1.7 MACs/cycle)
fir_blms16x16	N=80; M=128	6458 (3.2 MACs/cycle)	6458 (3.2 MACs/cycle)	11669 (1.8 MACs/cycle)
fir_blms16x16	N=64; M=128	5358 (3.1 MACs/cycle)	5358 (3.1 MACs/cycle)	9525 (1.7 MACs/cycle)
fir_blms32x32	N=80; M=16	3004 (0.9 MACs/cycle)	3004 (0.9 MACs/cycle)	3004 (0.9 MACs/cycle)
fir_blms32x32	N=64; M=16	2432 (0.8 MACs/cycle)	2432 (0.8 MACs/cycle)	2432 (0.8 MACs/cycle)
fir_blms32x32	N=64; M=64	8804 (0.9 MACs/cycle)	8804 (0.9 MACs/cycle)	8804 (0.9 MACs/cycle)
fir_blms32x32	N=80; M=64	10912 (0.9 MACs/cycle)	10912 (0.9 MACs/cycle)	10912 (0.9 MACs/cycle)
fir_blms32x32	N=80; M=128	21456 (1.0 MACs/cycle)	21456 (1.0 MACs/cycle)	21456 (1.0 MACs/cycle)
fir_blms32x32	N=64; M=128	17299 (0.9 MACs/cycle)	17299 (0.9 MACs/cycle)	17299 (0.9 MACs/cycle)
IIR filters:				
bqriir32x16_df1	N=256, M=1, gain=0	1458 (5.7 cycles/(biquad*pts)	1458 (5.7 cycles/(biquad*pts)	1458 (5.7 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=2, gain=1	2633 (5.1 cycles/(biquad*pts)	2762 (5.4 cycles/(biquad*pts)	2762 (5.4 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=3, gain=0	3814 (5.0 cycles/(biquad*pts)	4071 (5.3 cycles/(biquad*pts)	4071 (5.3 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=4, gain=1	4995 (4.9 cycles/(biquad*pts)	5380 (5.3 cycles/(biquad*pts)	5380 (5.3 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=5, gain=0	6176 (4.8 cycles/(biquad*pts)	6689 (5.2 cycles/(biquad*pts)	6689 (5.2 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=6, gain=1	7356 (4.8 cycles/(biquad*pts)	7997 (5.2 cycles/(biquad*pts)	7997 (5.2 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=7, gain=0	8537 (4.8 cycles/(biquad*pts)	9306 (5.2 cycles/(biquad*pts)	9306 (5.2 cycles/(biquad*pts)
bqriir32x16_df1	N=256, M=8, gain=1	9718 (4.7 cycles/(biquad*pts)	10615 (5.2 cycles/(biquad*pts)	10615 (5.2 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=0	2040 (5.1 cycles/(biquad*pts)	2201 (5.5 cycles/(biquad*pts)	2201 (5.5 cycles/(biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=1	2040 (5.1 cycles/(biquad*pts)	2201 (5.5 cycles/(biquad*pts)	2201 (5.5 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=1, gain=0	1447 (5.7 cycles/(biquad*pts)	1447 (5.7 cycles/(biquad*pts)	1447 (5.7 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=2, gain=1	3003 (5.9 cycles/(biquad*pts)	3003 (5.9 cycles/(biquad*pts)	3003 (5.9 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=3, gain=0	4563 (5.9 cycles/(biquad*pts)	4563 (5.9 cycles/(biquad*pts)	4563 (5.9 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=4, gain=1	6123 (6.0 cycles/(biquad*pts)	6123 (6.0 cycles/(biquad*pts)	6123 (6.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=5, gain=0	7682 (6.0 cycles/(biquad*pts)	7682 (6.0 cycles/(biquad*pts)	7682 (6.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=6, gain=1	9242 (6.0 cycles/(biquad*pts)	9242 (6.0 cycles/(biquad*pts)	9242 (6.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=7, gain=0	10802 (6.0 cycles/(biquad*pts)	10802 (6.0 cycles/(biquad*pts)	10802 (6.0 cycles/(biquad*pts)
bqriir32x16_df2	N=256, M=8, gain=1	12362 (6.0 cycles/(biquad*pts)	12362 (6.0 cycles/(biquad*pts)	12362 (6.0 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=0	2490 (6.2 cycles/(biquad*pts)	2490 (6.2 cycles/(biquad*pts)	2490 (6.2 cycles/(biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=1	2490 (6.2 cycles/(biquad*pts)	2490 (6.2 cycles/(biquad*pts)	2490 (6.2 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=1, gain=0	1459 (5.7 cycles/(biquad*pts)	1459 (5.7 cycles/(biquad*pts)	1459 (5.7 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=2, gain=1	2766 (5.4 cycles/(biquad*pts)	2892 (5.6 cycles/(biquad*pts)	2892 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=3, gain=0	4078 (5.3 cycles/(biquad*pts)	4330 (5.6 cycles/(biquad*pts)	4330 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=4, gain=1	5390 (5.3 cycles/(biquad*pts)	5768 (5.6 cycles/(biquad*pts)	5768 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=5, gain=0	6703 (5.2 cycles/(biquad*pts)	7207 (5.6 cycles/(biquad*pts)	7207 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=6, gain=1	8015 (5.2 cycles/(biquad*pts)	8645 (5.6 cycles/(biquad*pts)	8645 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=7, gain=0	9327 (5.2 cycles/(biquad*pts)	10083 (5.6 cycles/(biquad*pts)	10083 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=256, M=8, gain=1	10638 (5.2 cycles/(biquad*pts)	11520 (5.6 cycles/(biquad*pts)	11520 (5.6 cycles/(biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=0	2214 (5.5 cycles/(biquad*pts)	2366 (5.9 cycles/(biquad*pts)	2366 (5.9 cycles/(biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=1	2214 (5.5 cycles/(biquad*pts)	2366 (5.9 cycles/(biquad*pts)	2366 (5.9 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=1, gain=0	1454 (5.7 cycles/(biquad*pts)	1454 (5.7 cycles/(biquad*pts)	1454 (5.7 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=2, gain=1	3008 (5.9 cycles/(biquad*pts)	3008 (5.9 cycles/(biquad*pts)	3008 (5.9 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=3, gain=0	4568 (5.9 cycles/(biquad*pts)	4568 (5.9 cycles/(biquad*pts)	4568 (5.9 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=4, gain=1	6128 (6.0 cycles/(biquad*pts)	6128 (6.0 cycles/(biquad*pts)	6128 (6.0 cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=5, gain=0	7688 (6.0 cycles/(biquad*pts)	7688 (6.0 cycles/(biquad*pts)	7688 (6.0 cycles/(biquad*pts)



Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
		cycles/(biquad*pts)	cycles/(biquad*pts)	cycles/(biquad*pts)
bqriir24x24_df2	N=256, M=6, gain=1	9248 (6.0 cycles/(biquad*pts))	9248 (6.0 cycles/(biquad*pts))	9248 (6.0 cycles/(biquad*pts))
bqriir24x24_df2	N=256, M=7, gain=0	10809 (6.0 cycles/(biquad*pts))	10809 (6.0 cycles/(biquad*pts))	10809 (6.0 cycles/(biquad*pts))
bqriir24x24_df2	N=256, M=8, gain=1	12369 (6.0 cycles/(biquad*pts))	12369 (6.0 cycles/(biquad*pts))	12369 (6.0 cycles/(biquad*pts))
bqriir24x24_df2	N=80, M=5, gain=0	2497 (6.2 cycles/(biquad*pts))	2497 (6.2 cycles/(biquad*pts))	2497 (6.2 cycles/(biquad*pts))
bqriir24x24_df2	N=80, M=5, gain=1	2497 (6.2 cycles/(biquad*pts))	2497 (6.2 cycles/(biquad*pts))	2497 (6.2 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=1, gain=0	1962 (7.7 cycles/(biquad*pts))	1962 (7.7 cycles/(biquad*pts))	1962 (7.7 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=2, gain=1	3899 (7.6 cycles/(biquad*pts))	3899 (7.6 cycles/(biquad*pts))	3899 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=3, gain=0	5841 (7.6 cycles/(biquad*pts))	5841 (7.6 cycles/(biquad*pts))	5841 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=4, gain=1	7783 (7.6 cycles/(biquad*pts))	7783 (7.6 cycles/(biquad*pts))	7783 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=5, gain=0	9725 (7.6 cycles/(biquad*pts))	9725 (7.6 cycles/(biquad*pts))	9725 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=6, gain=1	11667 (7.6 cycles/(biquad*pts))	11667 (7.6 cycles/(biquad*pts))	11667 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=7, gain=0	13609 (7.6 cycles/(biquad*pts))	13609 (7.6 cycles/(biquad*pts))	13609 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=256, M=8, gain=1	15551 (7.6 cycles/(biquad*pts))	15551 (7.6 cycles/(biquad*pts))	15551 (7.6 cycles/(biquad*pts))
bqriir32x32_df2	N=80, M=5, gain=0	3125 (7.8 cycles/(biquad*pts))	3125 (7.8 cycles/(biquad*pts))	3125 (7.8 cycles/(biquad*pts))
bqriir32x32_df2	N=80, M=5, gain=1	3126 (7.8 cycles/(biquad*pts))	3126 (7.8 cycles/(biquad*pts))	3126 (7.8 cycles/(biquad*pts))
latr32x16_process	N=256, M=1	1070 (4.2 cycles/(sample*M))	1070 (4.2 cycles/(sample*M))	1070 (4.2 cycles/(sample*M))
latr32x16_process	N=256, M=2	1324 (2.6 cycles/(sample*M))	1324 (2.6 cycles/(sample*M))	1324 (2.6 cycles/(sample*M))
latr32x16_process	N=256, M=3	2348 (3.1 cycles/(sample*M))	2348 (3.1 cycles/(sample*M))	2348 (3.1 cycles/(sample*M))
latr32x16_process	N=256, M=4	3113 (3.0 cycles/(sample*M))	3113 (3.0 cycles/(sample*M))	3113 (3.0 cycles/(sample*M))
latr32x16_process	N=256, M=5	3882 (3.0 cycles/(sample*M))	3882 (3.0 cycles/(sample*M))	3882 (3.0 cycles/(sample*M))
latr32x16_process	N=256, M=6	4653 (3.0 cycles/(sample*M))	4653 (3.0 cycles/(sample*M))	4653 (3.0 cycles/(sample*M))
latr32x16_process	N=256, M=7	6190 (3.5 cycles/(sample*M))	6190 (3.5 cycles/(sample*M))	6190 (3.5 cycles/(sample*M))
latr32x16_process	N=256, M=8	6702 (3.3 cycles/(sample*M))	6702 (3.3 cycles/(sample*M))	6702 (3.3 cycles/(sample*M))
latr32x16_process	N=256, M=9	13601 (5.9 cycles/(sample*M))	13601 (5.9 cycles/(sample*M))	13601 (5.9 cycles/(sample*M))
latr32x16_process	N=80, M=6	1485 (3.1 cycles/(sample*M))	1485 (3.1 cycles/(sample*M))	1485 (3.1 cycles/(sample*M))
latr24x24_process	N=256, M=1	813 (3.2 cycles/(sample*M))	813 (3.2 cycles/(sample*M))	813 (3.2 cycles/(sample*M))
latr24x24_process	N=256, M=2	1326 (2.6 cycles/(sample*M))	1326 (2.6 cycles/(sample*M))	1326 (2.6 cycles/(sample*M))
latr24x24_process	N=256, M=3	2347 (3.1 cycles/(sample*M))	2347 (3.1 cycles/(sample*M))	2347 (3.1 cycles/(sample*M))
latr24x24_process	N=256, M=4	3883 (3.8 cycles/(sample*M))	3883 (3.8 cycles/(sample*M))	3883 (3.8 cycles/(sample*M))
latr24x24_process	N=256, M=5	3631 (2.8 cycles/(sample*M))	3631 (2.8 cycles/(sample*M))	3631 (2.8 cycles/(sample*M))
latr24x24_process	N=256, M=6	4655 (3.0 cycles/(sample*M))	4655 (3.0 cycles/(sample*M))	4655 (3.0 cycles/(sample*M))
latr24x24_process	N=256, M=7	6443 (3.6 cycles/(sample*M))	6443 (3.6 cycles/(sample*M))	6443 (3.6 cycles/(sample*M))
latr24x24_process	N=256, M=8	8487 (4.1 cycles/(sample*M))	8487 (4.1 cycles/(sample*M))	8487 (4.1 cycles/(sample*M))
latr24x24_process	N=256, M=9	16426 (7.1 cycles/(sample*M))	16426 (7.1 cycles/(sample*M))	16426 (7.1 cycles/(sample*M))
latr24x24_process	N=80, M=6	1486 (3.1 cycles/(sample*M))	1486 (3.1 cycles/(sample*M))	1486 (3.1 cycles/(sample*M))
bqriirf_df2t	N=512, M=1	5214 (10.2 cycles/(biquad*pts))	5214 (10.2 cycles/(biquad*pts))	5214 (10.2 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=2	9586 (9.4 cycles/(biquad*pts))	9586 (9.4 cycles/(biquad*pts))	9586 (9.4 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=3	13958 (9.1 cycles/(biquad*pts))	13958 (9.1 cycles/(biquad*pts))	13958 (9.1 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=4	18330 (9.0 cycles/(biquad*pts))	18330 (9.0 cycles/(biquad*pts))	18330 (9.0 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=8	35818 (8.7 cycles/(biquad*pts))	35818 (8.7 cycles/(biquad*pts))	35818 (8.7 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=12	53306 (8.7 cycles/(biquad*pts))	53306 (8.7 cycles/(biquad*pts))	53306 (8.7 cycles/(biquad*pts))
bqriirf_df2t	N=512, M=16	70794 (8.6 cycles/(biquad*pts))	70794 (8.6 cycles/(biquad*pts))	70794 (8.6 cycles/(biquad*pts))
bqriirf_df1	N=512, M=1	4198 (8.2 cycles/(biquad*pts))	4198 (8.2 cycles/(biquad*pts))	4198 (8.2 cycles/(biquad*pts))
bqriirf_df1	N=512, M=2	7563 (7.4 cycles/(biquad*pts))	7563 (7.4 cycles/(biquad*pts))	7563 (7.4 cycles/(biquad*pts))
bqriirf_df1	N=512, M=3	10928 (7.1 cycles/(biquad*pts))	10928 (7.1 cycles/(biquad*pts))	10928 (7.1 cycles/(biquad*pts))
bqriirf_df1	N=512, M=4	14293 (7.0 cycles/(biquad*pts))	14293 (7.0 cycles/(biquad*pts))	14293 (7.0 cycles/(biquad*pts))
bqriirf_df1	N=512, M=8	27753 (6.8 cycles/(biquad*pts))	27753 (6.8 cycles/(biquad*pts))	27753 (6.8 cycles/(biquad*pts))
bqriirf_df1	N=512, M=12	41213 (6.7 cycles/(biquad*pts))	41213 (6.7 cycles/(biquad*pts))	41213 (6.7 cycles/(biquad*pts))
bqriirf_df1	N=512, M=16	54673 (6.7 cycles/(biquad*pts))	54673 (6.7 cycles/(biquad*pts))	54673 (6.7 cycles/(biquad*pts))
bqriirf_df2	N=512, M=1	3928 (7.7 cycles/(biquad*pts))	3928 (7.7 cycles/(biquad*pts))	3928 (7.7 cycles/(biquad*pts))
bqriirf_df2	N=512, M=2	7024 (6.9 cycles/(biquad*pts))	7024 (6.9 cycles/(biquad*pts))	7024 (6.9 cycles/(biquad*pts))
bqriirf_df2	N=512, M=3	10120 (6.6 cycles/(biquad*pts))	10120 (6.6 cycles/(biquad*pts))	10120 (6.6 cycles/(biquad*pts))
bqriirf_df2	N=512, M=4	13216 (6.5 cycles/(biquad*pts))	13216 (6.5 cycles/(biquad*pts))	13216 (6.5 cycles/(biquad*pts))
bqriirf_df2	N=512, M=8	25600 (6.3 cycles/(biquad*pts))	25600 (6.3 cycles/(biquad*pts))	25600 (6.3 cycles/(biquad*pts))
bqriirf_df2	N=512, M=12	37984 (6.2 cycles/(biquad*pts))	37984 (6.2 cycles/(biquad*pts))	37984 (6.2 cycles/(biquad*pts))
bqriirf_df2	N=512, M=16	50368 (6.1 cycles/(biquad*pts))	50368 (6.1 cycles/(biquad*pts))	50368 (6.1 cycles/(biquad*pts))
bqciirf_df1	N=512, M=1	8360 (16.3 cycles/(biquad*pts))	8360 (16.3 cycles/(biquad*pts))	8360 (16.3 cycles/(biquad*pts))
bqciirf_df1	N=512, M=2	15092 (14.7 cycles/(biquad*pts))	15092 (14.7 cycles/(biquad*pts))	15092 (14.7 cycles/(biquad*pts))
bqciirf_df1	N=512, M=3	21824 (14.2 cycles/(biquad*pts))	21824 (14.2 cycles/(biquad*pts))	21824 (14.2 cycles/(biquad*pts))
bqciirf_df1	N=512, M=4	28556 (13.9 cycles/(biquad*pts))	28556 (13.9 cycles/(biquad*pts))	28556 (13.9 cycles/(biquad*pts))
bqciirf_df1	N=512, M=8	55484 (13.5 cycles/(biquad*pts))	55484 (13.5 cycles/(biquad*pts))	55484 (13.5 cycles/(biquad*pts))
bqciirf_df1	N=512, M=12	82412 (13.4 cycles/(biquad*pts))	82412 (13.4 cycles/(biquad*pts))	82412 (13.4 cycles/(biquad*pts))
bqciirf_df1	N=512, M=16	109340 (13.3 cycles/(biquad*pts))	109340 (13.3 cycles/(biquad*pts))	109340 (13.3 cycles/(biquad*pts))

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
		cycles/(biquad*pts)	cycles/(biquad*pts)	cycles/(biquad*pts)
latrf_process	N=256, M=1	1067 (4.2 cycles/(sample*M))	1067 (4.2 cycles/(sample*M))	1067 (4.2 cycles/(sample*M))
latrf_process	N=256, M=2	3244 (6.3 cycles/(sample*M))	3244 (6.3 cycles/(sample*M))	3244 (6.3 cycles/(sample*M))
latrf_process	N=256, M=3	3507 (4.6 cycles/(sample*M))	3507 (4.6 cycles/(sample*M))	3507 (4.6 cycles/(sample*M))
latrf_process	N=256, M=4	3645 (3.6 cycles/(sample*M))	3645 (3.6 cycles/(sample*M))	3645 (3.6 cycles/(sample*M))
latrf_process	N=256, M=5	6064 (4.7 cycles/(sample*M))	6064 (4.7 cycles/(sample*M))	6064 (4.7 cycles/(sample*M))
latrf_process	N=256, M=6	10035 (6.5 cycles/(sample*M))	10035 (6.5 cycles/(sample*M))	10035 (6.5 cycles/(sample*M))
latrf_process	N=256, M=7	8917 (5.0 cycles/(sample*M))	8917 (5.0 cycles/(sample*M))	8917 (5.0 cycles/(sample*M))
latrf_process	N=256, M=8	12062 (5.9 cycles/(sample*M))	12062 (5.9 cycles/(sample*M))	12062 (5.9 cycles/(sample*M))
latrf_process	N=256, M=9	13886 (6.0 cycles/(sample*M))	13886 (6.0 cycles/(sample*M))	13886 (6.0 cycles/(sample*M))
latrf_process	N=80, M=6	3171 (6.6 cycles/(sample*M))	3171 (6.6 cycles/(sample*M))	3171 (6.6 cycles/(sample*M))
bqriir16x16_df1	N=256, M=1, gain=0	1325 (5.2 cycles/(biquad*pts))	1325 (5.2 cycles/(biquad*pts))	1457 (5.7 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=2, gain=1	2641 (5.2 cycles/(biquad*pts))	2641 (5.2 cycles/(biquad*pts))	2755 (5.4 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=3, gain=0	3953 (5.1 cycles/(biquad*pts))	3953 (5.1 cycles/(biquad*pts))	4058 (5.3 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=4, gain=1	5265 (5.1 cycles/(biquad*pts))	5265 (5.1 cycles/(biquad*pts))	5361 (5.2 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=5, gain=0	6577 (5.1 cycles/(biquad*pts))	6577 (5.1 cycles/(biquad*pts))	6664 (5.2 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=6, gain=1	7889 (5.1 cycles/(biquad*pts))	7889 (5.1 cycles/(biquad*pts))	7967 (5.2 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=7, gain=0	9201 (5.1 cycles/(biquad*pts))	9201 (5.1 cycles/(biquad*pts))	9270 (5.2 cycles/(biquad*pts))
bqriir16x16_df1	N=256, M=8, gain=1	10513 (5.1 cycles/(biquad*pts))	10513 (5.1 cycles/(biquad*pts))	10573 (5.2 cycles/(biquad*pts))
bqriir16x16_df1	N=80, M=5, gain=0	2177 (5.4 cycles/(biquad*pts))	2177 (5.4 cycles/(biquad*pts))	2176 (5.4 cycles/(biquad*pts))
bqriir16x16_df1	N=80, M=5, gain=1	2177 (5.4 cycles/(biquad*pts))	2177 (5.4 cycles/(biquad*pts))	2176 (5.4 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=1, gain=0	1325 (5.2 cycles/(biquad*pts))	1325 (5.2 cycles/(biquad*pts))	1833 (7.2 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=2, gain=1	2628 (5.1 cycles/(biquad*pts))	2628 (5.1 cycles/(biquad*pts))	3649 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=3, gain=0	3931 (5.1 cycles/(biquad*pts))	3931 (5.1 cycles/(biquad*pts))	5459 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=4, gain=1	5235 (5.1 cycles/(biquad*pts))	5235 (5.1 cycles/(biquad*pts))	7270 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=5, gain=0	6539 (5.1 cycles/(biquad*pts))	6539 (5.1 cycles/(biquad*pts))	9081 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=6, gain=1	7843 (5.1 cycles/(biquad*pts))	7843 (5.1 cycles/(biquad*pts))	10892 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=7, gain=0	9147 (5.1 cycles/(biquad*pts))	9147 (5.1 cycles/(biquad*pts))	12703 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=256, M=8, gain=1	10451 (5.1 cycles/(biquad*pts))	10451 (5.1 cycles/(biquad*pts))	14514 (7.1 cycles/(biquad*pts))
bqriir16x16_df2	N=80, M=5, gain=0	2139 (5.3 cycles/(biquad*pts))	2139 (5.3 cycles/(biquad*pts))	2921 (7.3 cycles/(biquad*pts))
bqriir16x16_df2	N=80, M=5, gain=1	2139 (5.3 cycles/(biquad*pts))	2139 (5.3 cycles/(biquad*pts))	2921 (7.3 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=1, gain=0	1322 (5.2 cycles/(biquad*pts))	1322 (5.2 cycles/(biquad*pts))	1322 (5.2 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=2, gain=1	2612 (5.1 cycles/(biquad*pts))	2612 (5.1 cycles/(biquad*pts))	2612 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=3, gain=0	3907 (5.1 cycles/(biquad*pts))	3907 (5.1 cycles/(biquad*pts))	3907 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=4, gain=1	5203 (5.1 cycles/(biquad*pts))	5203 (5.1 cycles/(biquad*pts))	5203 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=5, gain=0	6497 (5.1 cycles/(biquad*pts))	6497 (5.1 cycles/(biquad*pts))	6497 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=6, gain=1	7792 (5.1 cycles/(biquad*pts))	7792 (5.1 cycles/(biquad*pts))	7792 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=7, gain=0	9087 (5.1 cycles/(biquad*pts))	9087 (5.1 cycles/(biquad*pts))	9087 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=256, M=8, gain=1	10382 (5.1 cycles/(biquad*pts))	10382 (5.1 cycles/(biquad*pts))	10382 (5.1 cycles/(biquad*pts))
bqriir32x32_df1	N=80, M=5, gain=0	2097 (5.2 cycles/(biquad*pts))	2097 (5.2 cycles/(biquad*pts))	2097 (5.2 cycles/(biquad*pts))
bqriir32x32_df1	N=80, M=5, gain=1	2097 (5.2 cycles/(biquad*pts))	2097 (5.2 cycles/(biquad*pts))	2097 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=1, gain=0	4334 (5.6 cycles/(biquad*pts))	4334 (5.6 cycles/(biquad*pts))	4343 (5.7 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=2, gain=1	8255 (5.4 cycles/(biquad*pts))	8255 (5.4 cycles/(biquad*pts))	8243 (5.4 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=3, gain=0	12185 (5.3 cycles/(biquad*pts))	12185 (5.3 cycles/(biquad*pts))	12152 (5.3 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=4, gain=1	16115 (5.2 cycles/(biquad*pts))	16115 (5.2 cycles/(biquad*pts))	16061 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=5, gain=0	20045 (5.2 cycles/(biquad*pts))	20045 (5.2 cycles/(biquad*pts))	19970 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=6, gain=1	23975 (5.2 cycles/(biquad*pts))	23975 (5.2 cycles/(biquad*pts))	23879 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=7, gain=0	27906 (5.2 cycles/(biquad*pts))	27906 (5.2 cycles/(biquad*pts))	27789 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=256, M=8, gain=1	31835 (5.2 cycles/(biquad*pts))	31835 (5.2 cycles/(biquad*pts))	31697 (5.2 cycles/(biquad*pts))
bq3iir16x16_df1	N=80, M=5, gain=0	6581 (5.5 cycles/(biquad*pts))	6581 (5.5 cycles/(biquad*pts))	6506 (5.4 cycles/(biquad*pts))
bq3iir16x16_df1	N=80, M=5, gain=1	6581 (5.5 cycles/(biquad*pts))	6581 (5.5 cycles/(biquad*pts))	6506 (5.4 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=1, gain=0	3945 (5.1 cycles/(biquad*pts))	3945 (5.1 cycles/(biquad*pts))	5460 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=2, gain=1	7851 (5.1 cycles/(biquad*pts))	7851 (5.1 cycles/(biquad*pts))	10878 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=3, gain=0	11766 (5.1 cycles/(biquad*pts))	11766 (5.1 cycles/(biquad*pts))	16305 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=4, gain=1	15681 (5.1 cycles/(biquad*pts))	15681 (5.1 cycles/(biquad*pts))	21732 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=5, gain=0	19596 (5.1 cycles/(biquad*pts))	19596 (5.1 cycles/(biquad*pts))	27159 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=6, gain=1	23512 (5.1 cycles/(biquad*pts))	23512 (5.1 cycles/(biquad*pts))	32587 (7.1 cycles/(biquad*pts))
bq3iir16x16_df2	N=256, M=7, gain=0	27426 (5.1 cycles/(biquad*pts))	27426 (5.1 cycles/(biquad*pts))	38013 (7.1 cycles/(biquad*pts))

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS//FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
bq3iir16x16_df2	N=256, M=8, gain=1	31341 (5.1 cycles/ (biquad*pts)	31341 (5.1 cycles/ (biquad*pts)	43440 (7.1 cycles/ (biquad*pts)
bq3iir16x16_df2	N=80, M=5, gain=0	6396 (5.3 cycles/ (biquad*pts)	6396 (5.3 cycles/ (biquad*pts)	8679 (7.2 cycles/ (biquad*pts)
bq3iir16x16_df2	N=80, M=5, gain=1	6396 (5.3 cycles/ (biquad*pts)	6396 (5.3 cycles/ (biquad*pts)	8679 (7.2 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=1, gain=0	3766 (4.9 cycles/ (biquad*pts)	3766 (4.9 cycles/ (biquad*pts)	3766 (4.9 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=2, gain=1	7276 (4.7 cycles/ (biquad*pts)	7276 (4.7 cycles/ (biquad*pts)	7276 (4.7 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=3, gain=0	10795 (4.7 cycles/ (biquad*pts)	10795 (4.7 cycles/ (biquad*pts)	10795 (4.7 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=4, gain=1	14314 (4.7 cycles/ (biquad*pts)	14314 (4.7 cycles/ (biquad*pts)	14314 (4.7 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=5, gain=0	17833 (4.6 cycles/ (biquad*pts)	17833 (4.6 cycles/ (biquad*pts)	17833 (4.6 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=6, gain=1	21352 (4.6 cycles/ (biquad*pts)	21352 (4.6 cycles/ (biquad*pts)	21352 (4.6 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=7, gain=0	24871 (4.6 cycles/ (biquad*pts)	24871 (4.6 cycles/ (biquad*pts)	24871 (4.6 cycles/ (biquad*pts)
bq3iir32x16_df1	N=256, M=8, gain=1	28390 (4.6 cycles/ (biquad*pts)	28390 (4.6 cycles/ (biquad*pts)	28390 (4.6 cycles/ (biquad*pts)
bq3iir32x16_df1	N=80, M=5, gain=0	5821 (4.9 cycles/ (biquad*pts)	5821 (4.9 cycles/ (biquad*pts)	5821 (4.9 cycles/ (biquad*pts)
bq3iir32x16_df1	N=80, M=5, gain=1	5821 (4.9 cycles/ (biquad*pts)	5821 (4.9 cycles/ (biquad*pts)	5821 (4.9 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=1, gain=0	3875 (5.0 cycles/ (biquad*pts)	3875 (5.0 cycles/ (biquad*pts)	3875 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=2, gain=1	7725 (5.0 cycles/ (biquad*pts)	7725 (5.0 cycles/ (biquad*pts)	7725 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=3, gain=0	11578 (5.0 cycles/ (biquad*pts)	11578 (5.0 cycles/ (biquad*pts)	11578 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=3, gain=0	15429 (5.0 cycles/ (biquad*pts)	15429 (5.0 cycles/ (biquad*pts)	15429 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=4, gain=1	19281 (5.0 cycles/ (biquad*pts)	19281 (5.0 cycles/ (biquad*pts)	19281 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=5, gain=0	23133 (5.0 cycles/ (biquad*pts)	23133 (5.0 cycles/ (biquad*pts)	23133 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=6, gain=1	26985 (5.0 cycles/ (biquad*pts)	26985 (5.0 cycles/ (biquad*pts)	26985 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=7, gain=0	30837 (5.0 cycles/ (biquad*pts)	30837 (5.0 cycles/ (biquad*pts)	30837 (5.0 cycles/ (biquad*pts)
bq3iir32x16_df2	N=256, M=8, gain=1	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)
bq3iir32x16_df2	N=80, M=5, gain=0	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)
bq3iir32x16_df2	N=80, M=5, gain=1	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)	6081 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=1, gain=0	3937 (5.1 cycles/ (biquad*pts)	3937 (5.1 cycles/ (biquad*pts)	3937 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=2, gain=1	7816 (5.1 cycles/ (biquad*pts)	7816 (5.1 cycles/ (biquad*pts)	7816 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=3, gain=0	11704 (5.1 cycles/ (biquad*pts)	11704 (5.1 cycles/ (biquad*pts)	11704 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=4, gain=1	15592 (5.1 cycles/ (biquad*pts)	15592 (5.1 cycles/ (biquad*pts)	15592 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=5, gain=0	19481 (5.1 cycles/ (biquad*pts)	19481 (5.1 cycles/ (biquad*pts)	19481 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=6, gain=1	23368 (5.1 cycles/ (biquad*pts)	23368 (5.1 cycles/ (biquad*pts)	23368 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=7, gain=0	27256 (5.1 cycles/ (biquad*pts)	27256 (5.1 cycles/ (biquad*pts)	27256 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=256, M=8, gain=1	31144 (5.1 cycles/ (biquad*pts)	31144 (5.1 cycles/ (biquad*pts)	31144 (5.1 cycles/ (biquad*pts)
bq3iir32x32_df1	N=80, M=5, gain=0	6280 (5.2 cycles/ (biquad*pts)	6280 (5.2 cycles/ (biquad*pts)	6280 (5.2 cycles/ (biquad*pts)
bq3iir32x32_df1	N=80, M=5, gain=1	6280 (5.2 cycles/ (biquad*pts)	6280 (5.2 cycles/ (biquad*pts)	6280 (5.2 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=1, gain=0	4706 (6.1 cycles/ (biquad*pts)	4706 (6.1 cycles/ (biquad*pts)	4706 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=2, gain=1	9347 (6.1 cycles/ (biquad*pts)	9347 (6.1 cycles/ (biquad*pts)	9347 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=3, gain=0	13997 (6.1 cycles/ (biquad*pts)	13997 (6.1 cycles/ (biquad*pts)	13997 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=4, gain=1	18647 (6.1 cycles/ (biquad*pts)	18647 (6.1 cycles/ (biquad*pts)	18647 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=5, gain=0	23297 (6.1 cycles/ (biquad*pts)	23297 (6.1 cycles/ (biquad*pts)	23297 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=6, gain=1	27947 (6.1 cycles/ (biquad*pts)	27947 (6.1 cycles/ (biquad*pts)	27947 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=7, gain=0	32597 (6.1 cycles/ (biquad*pts)	32597 (6.1 cycles/ (biquad*pts)	32597 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=256, M=8, gain=1	37248 (6.1 cycles/ (biquad*pts)	37248 (6.1 cycles/ (biquad*pts)	37248 (6.1 cycles/ (biquad*pts)
bq3iir32x32_df2	N=80, M=5, gain=0	7458 (6.2 cycles/ (biquad*pts)	7458 (6.2 cycles/ (biquad*pts)	7458 (6.2 cycles/ (biquad*pts)
bq3iir32x32_df2	N=80, M=5, gain=1	7457 (6.2 cycles/ (biquad*pts)	7457 (6.2 cycles/ (biquad*pts)	7457 (6.2 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=1	12533 (8.2 cycles/ (biquad*pts)	12533 (8.2 cycles/ (biquad*pts)	12533 (8.2 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=2	22637 (7.4 cycles/ (biquad*pts)	22637 (7.4 cycles/ (biquad*pts)	22637 (7.4 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=3	32741 (7.1 cycles/ (biquad*pts)	32741 (7.1 cycles/ (biquad*pts)	32741 (7.1 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=4	42845 (7.0 cycles/ (biquad*pts)	42845 (7.0 cycles/ (biquad*pts)	42845 (7.0 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=8	83261 (6.8 cycles/ (biquad*pts)	83261 (6.8 cycles/ (biquad*pts)	83261 (6.8 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=12	123677 (6.7 cycles/ (biquad*pts)	123677 (6.7 cycles/ (biquad*pts)	123677 (6.7 cycles/ (biquad*pts)
bq3iirf_df1	N=512, M=16	164093 (6.7 cycles/ (biquad*pts)	164093 (6.7 cycles/ (biquad*pts)	164093 (6.7 cycles/ (biquad*pts)
bq3iirf_df2	N=512, M=1	11699 (7.6 cycles/ (biquad*pts)	11699 (7.6 cycles/ (biquad*pts)	11699 (7.6 cycles/ (biquad*pts)
bq3iirf_df2	N=512, M=2	20966 (6.8 cycles/ (biquad*pts)	20966 (6.8 cycles/ (biquad*pts)	20966 (6.8 cycles/ (biquad*pts)
bq3iirf_df2	N=512, M=3	30233 (6.6 cycles/ (biquad*pts)	30233 (6.6 cycles/ (biquad*pts)	30233 (6.6 cycles/ (biquad*pts)
bq3iirf_df2	N=512, M=4	39500 (6.4 cycles/ (biquad*pts)	39500 (6.4 cycles/ (biquad*pts)	39500 (6.4 cycles/ (biquad*pts)



Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
		cycles/(biquad*pts)	cycles/(biquad*pts)	cycles/(biquad*pts)
bq3iirf_df2	N=512, M=8	76568 (6.2 cycles/(biquad*pts))	76568 (6.2 cycles/(biquad*pts))	76568 (6.2 cycles/(biquad*pts))
bq3iirf_df2	N=512, M=12	113636 (6.2 cycles/(biquad*pts))	113636 (6.2 cycles/(biquad*pts))	113636 (6.2 cycles/(biquad*pts))
bq3iirf_df2	N=512, M=16	150704 (6.1 cycles/(biquad*pts))	150704 (6.1 cycles/(biquad*pts))	150704 (6.1 cycles/(biquad*pts))
latr16x16_process	N=256, M=1	820 (3.2 cycles/(sample*M))	820 (3.2 cycles/(sample*M))	820 (3.2 cycles/(sample*M))
latr16x16_process	N=256, M=2	1588 (3.1 cycles/(sample*M))	1588 (3.1 cycles/(sample*M))	1588 (3.1 cycles/(sample*M))
latr16x16_process	N=256, M=3	2109 (2.7 cycles/(sample*M))	2109 (2.7 cycles/(sample*M))	2109 (2.7 cycles/(sample*M))
latr16x16_process	N=256, M=4	2745 (2.7 cycles/(sample*M))	2745 (2.7 cycles/(sample*M))	2745 (2.7 cycles/(sample*M))
latr16x16_process	N=256, M=5	3634 (2.8 cycles/(sample*M))	3634 (2.8 cycles/(sample*M))	3634 (2.8 cycles/(sample*M))
latr16x16_process	N=256, M=6	4661 (3.0 cycles/(sample*M))	4661 (3.0 cycles/(sample*M))	4660 (3.0 cycles/(sample*M))
latr16x16_process	N=256, M=7	5428 (3.0 cycles/(sample*M))	5428 (3.0 cycles/(sample*M))	5943 (3.3 cycles/(sample*M))
latr16x16_process	N=256, M=8	6456 (3.2 cycles/(sample*M))	6456 (3.2 cycles/(sample*M))	6453 (3.2 cycles/(sample*M))
latr16x16_process	N=256, M=9	12580 (5.5 cycles/(sample*M))	12580 (5.5 cycles/(sample*M))	13092 (5.7 cycles/(sample*M))
latr16x16_process	N=80, M=6	1493 (3.1 cycles/(sample*M))	1493 (3.1 cycles/(sample*M))	1492 (3.1 cycles/(sample*M))
latr32x32_process	N=256, M=1	812 (3.2 cycles/(sample*M))	813 (3.2 cycles/(sample*M))	813 (3.2 cycles/(sample*M))
latr32x32_process	N=256, M=2	1588 (3.1 cycles/(sample*M))	1588 (3.1 cycles/(sample*M))	1588 (3.1 cycles/(sample*M))
latr32x32_process	N=256, M=3	2349 (3.1 cycles/(sample*M))	2349 (3.1 cycles/(sample*M))	2349 (3.1 cycles/(sample*M))
latr32x32_process	N=256, M=4	3121 (3.0 cycles/(sample*M))	3121 (3.0 cycles/(sample*M))	3121 (3.0 cycles/(sample*M))
latr32x32_process	N=256, M=5	3895 (3.0 cycles/(sample*M))	3895 (3.0 cycles/(sample*M))	3895 (3.0 cycles/(sample*M))
latr32x32_process	N=256, M=6	4907 (3.2 cycles/(sample*M))	4907 (3.2 cycles/(sample*M))	4907 (3.2 cycles/(sample*M))
latr32x32_process	N=256, M=7	6704 (3.7 cycles/(sample*M))	6704 (3.7 cycles/(sample*M))	6704 (3.7 cycles/(sample*M))
latr32x32_process	N=256, M=8	7217 (3.5 cycles/(sample*M))	7217 (3.5 cycles/(sample*M))	7217 (3.5 cycles/(sample*M))
latr32x32_process	N=256, M=9	14116 (6.1 cycles/(sample*M))	14116 (6.1 cycles/(sample*M))	14116 (6.1 cycles/(sample*M))
latr32x32_process	N=80, M=6	1563 (3.3 cycles/(sample*M))	1563 (3.3 cycles/(sample*M))	1563 (3.3 cycles/(sample*M))
<b>Matrix operations:</b>				
mtx_mpy16x16	40x80 x 80x8	10998 (2.3 MACs/cycle)	10999 (2.3 MACs/cycle)	30004 (0.9 MACs/cycle)
mtx_mpy16x16	40x81 x 81x8	11347 (2.3 MACs/cycle)	11347 (2.3 MACs/cycle)	30414 (0.9 MACs/cycle)
mtx_mpy16x16	40x82 x 82x8	11365 (2.3 MACs/cycle)	11365 (2.3 MACs/cycle)	30664 (0.9 MACs/cycle)
mtx_mpy16x16	40x83 x 83x8	11387 (2.3 MACs/cycle)	11387 (2.3 MACs/cycle)	31074 (0.9 MACs/cycle)
mtx_mpy16x16	2x100 x 100x8	2738 (0.6 MACs/cycle)	2739 (0.6 MACs/cycle)	2860 (0.6 MACs/cycle)
mtx_mpy16x16	8x80 x 80x2	956 (1.3 MACs/cycle)	957 (1.3 MACs/cycle)	3330 (0.4 MACs/cycle)
mtx_mpy16x16	8x4 x 4x2	276 (0.2 MACs/cycle)	277 (0.2 MACs/cycle)	510 (0.1 MACs/cycle)
mtx_mpy16x16	8x16 x 16x2	380 (0.7 MACs/cycle)	381 (0.7 MACs/cycle)	962 (0.3 MACs/cycle)
mtx_mpy16x16	8x32 x 32x2	524 (1.0 MACs/cycle)	525 (1.0 MACs/cycle)	1554 (0.3 MACs/cycle)
mtx_mpy16x16_fast	8x80 x 80x2	848 (1.5 MACs/cycle)	848 (1.5 MACs/cycle)	1303 (1.0 MACs/cycle)
mtx_mpy16x16_fast	8x84 x 84x2	884 (1.5 MACs/cycle)	884 (1.5 MACs/cycle)	1363 (1.0 MACs/cycle)
mtx_mpy16x16_fast	8x4 x 4x2	168 (0.4 MACs/cycle)	168 (0.4 MACs/cycle)	166 (0.4 MACs/cycle)
mtx_mpy16x16_fast	8x16 x 16x2	272 (0.9 MACs/cycle)	272 (0.9 MACs/cycle)	343 (0.7 MACs/cycle)
mtx_mpy16x16_fast	8x32 x 32x2	416 (1.2 MACs/cycle)	416 (1.2 MACs/cycle)	583 (0.9 MACs/cycle)
mtx_mpy24x24	40x80 x 80x8	24618 (1.0 MACs/cycle)	24618 (1.0 MACs/cycle)	24618 (1.0 MACs/cycle)
mtx_mpy24x24	40x81 x 81x8	25126 (1.0 MACs/cycle)	25126 (1.0 MACs/cycle)	25126 (1.0 MACs/cycle)
mtx_mpy24x24	40x82 x 82x8	25134 (1.0 MACs/cycle)	25134 (1.0 MACs/cycle)	25134 (1.0 MACs/cycle)
mtx_mpy24x24	40x83 x 83x8	25642 (1.0 MACs/cycle)	25642 (1.0 MACs/cycle)	25642 (1.0 MACs/cycle)
mtx_mpy24x24	2x100 x 100x8	3330 (0.5 MACs/cycle)	3330 (0.5 MACs/cycle)	3330 (0.5 MACs/cycle)
mtx_mpy24x24	8x80 x 80x2	1572 (0.8 MACs/cycle)	1572 (0.8 MACs/cycle)	1572 (0.8 MACs/cycle)
mtx_mpy24x24	8x4 x 4x2	309 (0.2 MACs/cycle)	309 (0.2 MACs/cycle)	309 (0.2 MACs/cycle)
mtx_mpy24x24	8x16 x 16x2	516 (0.5 MACs/cycle)	516 (0.5 MACs/cycle)	516 (0.5 MACs/cycle)
mtx_mpy24x24	8x32 x 32x2	780 (0.7 MACs/cycle)	780 (0.7 MACs/cycle)	780 (0.7 MACs/cycle)
mtx_mpy24x24_fast	8x80 x 80x2	1232 (1.0 MACs/cycle)	1232 (1.0 MACs/cycle)	1232 (1.0 MACs/cycle)
mtx_mpy24x24_fast	8x84 x 84x2	1288 (1.0 MACs/cycle)	1288 (1.0 MACs/cycle)	1288 (1.0 MACs/cycle)
mtx_mpy24x24_fast	8x4 x 4x2	169 (0.4 MACs/cycle)	169 (0.4 MACs/cycle)	169 (0.4 MACs/cycle)
mtx_mpy24x24_fast	8x16 x 16x2	336 (0.8 MACs/cycle)	336 (0.8 MACs/cycle)	336 (0.8 MACs/cycle)
mtx_mpy24x24_fast	8x32 x 32x2	560 (0.9 MACs/cycle)	560 (0.9 MACs/cycle)	560 (0.9 MACs/cycle)
mtx_vecmpy16x16	16x100 x 100x1	832 (1.9 MACs/cycle)	832 (1.9 MACs/cycle)	1911 (0.8 MACs/cycle)
mtx_vecmpy16x16	16x104 x 104x1	857 (1.9 MACs/cycle)	857 (1.9 MACs/cycle)	1976 (0.8 MACs/cycle)
mtx_vecmpy16x16	40x40 x 40x1	1121 (1.4 MACs/cycle)	1121 (1.4 MACs/cycle)	2344 (0.7 MACs/cycle)
mtx_vecmpy16x16_fast	16x100 x 100x1	595 (2.7 MACs/cycle)	595 (2.7 MACs/cycle)	1821 (0.9 MACs/cycle)
mtx_vecmpy16x16_fast	16x104 x 104x1	616 (2.7 MACs/cycle)	616 (2.7 MACs/cycle)	1886 (0.9 MACs/cycle)
mtx_vecmpy16x16_fast	40x40 x 40x1	710 (2.3 MACs/cycle)	710 (2.3 MACs/cycle)	2134 (0.7 MACs/cycle)
mtx_vecmpy24x24	16x100 x 100x1	1950 (0.8 MACs/cycle)	1950 (0.8 MACs/cycle)	1950 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x101 x 101x1	1983 (0.8 MACs/cycle)	1983 (0.8 MACs/cycle)	1983 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x102 x 102x1	1983 (0.8 MACs/cycle)	1983 (0.8 MACs/cycle)	1983 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x103 x 103x1	2015 (0.8 MACs/cycle)	2015 (0.8 MACs/cycle)	2015 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x104 x 104x1	2015 (0.8 MACs/cycle)	2015 (0.8 MACs/cycle)	2015 (0.8 MACs/cycle)
mtx_vecmpy24x24	40x40 x 40x1	2455 (0.7 MACs/cycle)	2455 (0.7 MACs/cycle)	2455 (0.7 MACs/cycle)
mtx_vecmpy24x24_fast	16x100 x 100x1	1342 (1.2 MACs/cycle)	1342 (1.2 MACs/cycle)	1342 (1.2 MACs/cycle)
mtx_vecmpy24x24_fast	16x104 x 104x1	1391 (1.2 MACs/cycle)	1391 (1.2 MACs/cycle)	1391 (1.2 MACs/cycle)
mtx_vecmpy24x24_fast	40x40 x 40x1	1535 (1.0 MACs/cycle)	1535 (1.0 MACs/cycle)	1535 (1.0 MACs/cycle)
mtx_mpyf	40x80 x 80x8	27205 (0.9 MACs/cycle)	27205 (0.9 MACs/cycle)	27205 (0.9 MACs/cycle)
mtx_mpyf	40x81 x 81x8	27526 (0.9 MACs/cycle)	27526 (0.9 MACs/cycle)	27526 (0.9 MACs/cycle)
mtx_mpyf	40x82 x 82x8	27846 (0.9 MACs/cycle)	27846 (0.9 MACs/cycle)	27846 (0.9 MACs/cycle)
mtx_mpyf	40x83 x 83x8	28166 (0.9 MACs/cycle)	28166 (0.9 MACs/cycle)	28166 (0.9 MACs/cycle)
mtx_mpyf	2x100 x 100x8	1724 (0.9 MACs/cycle)	1724 (0.9 MACs/cycle)	1724 (0.9 MACs/cycle)
mtx_mpyf	8x80 x 80x2	1482 (0.9 MACs/cycle)	1482 (0.9 MACs/cycle)	1482 (0.9 MACs/cycle)
mtx_mpyf	8x4 x 4x2	266 (0.2 MACs/cycle)	266 (0.2 MACs/cycle)	266 (0.2 MACs/cycle)
mtx_mpyf	8x16 x 16x2	458 (0.6 MACs/cycle)	458 (0.6 MACs/cycle)	458 (0.6 MACs/cycle)
mtx_mpyf	8x32 x 32x2	714 (0.7 MACs/cycle)	714 (0.7 MACs/cycle)	714 (0.7 MACs/cycle)
mtx_mpyf_fast	8x80 x 80x2	1365 (0.9 MACs/cycle)	1365 (0.9 MACs/cycle)	1365 (0.9 MACs/cycle)
mtx_mpyf_fast	8x84 x 84x2	1430 (0.9 MACs/cycle)	1430 (0.9 MACs/cycle)	1430 (0.9 MACs/cycle)
mtx_mpyf_fast	8x4 x 4x2	150 (0.4 MACs/cycle)	150 (0.4 MACs/cycle)	150 (0.4 MACs/cycle)
mtx_mpyf_fast	8x16 x 16x2	342 (0.7 MACs/cycle)	342 (0.7 MACs/cycle)	342 (0.7 MACs/cycle)
mtx_mpyf_fast	8x32 x 32x2	598 (0.9 MACs/cycle)	598 (0.9 MACs/cycle)	598 (0.9 MACs/cycle)
mtx_vecmpyf	16x100 x 100x1	1877 (0.9 MACs/cycle)	1877 (0.9 MACs/cycle)	1877 (0.9 MACs/cycle)
mtx_vecmpyf	16x101 x 101x1	1909 (0.8 MACs/cycle)	1909 (0.8 MACs/cycle)	1909 (0.8 MACs/cycle)
mtx_vecmpyf	16x102 x 102x1	1909 (0.9 MACs/cycle)	1909 (0.9 MACs/cycle)	1909 (0.9 MACs/cycle)
mtx_vecmpyf	16x103 x 103x1	1941 (0.8 MACs/cycle)	1941 (0.8 MACs/cycle)	1941 (0.8 MACs/cycle)
mtx_vecmpyf	16x104 x 104x1	1941 (0.9 MACs/cycle)	1941 (0.9 MACs/cycle)	1941 (0.9 MACs/cycle)
mtx_vecmpyf	40x40 x 40x1	2248 (0.7 MACs/cycle)	2248 (0.7 MACs/cycle)	2248 (0.7 MACs/cycle)
mtx_vecmpyf_fast	16x100 x 100x1	1724 (0.9 MACs/cycle)	1724 (0.9 MACs/cycle)	1724 (0.9 MACs/cycle)
mtx_vecmpyf_fast	16x104 x 104x1	1788 (0.9 MACs/cycle)	1788 (0.9 MACs/cycle)	1788 (0.9 MACs/cycle)
mtx_vecmpyf_fast	40x40 x 40x1	1868 (0.9 MACs/cycle)	1868 (0.9 MACs/cycle)	1868 (0.9 MACs/cycle)
mtx_mpy32x32	40x80 x 80x8	31814 (0.8 MACs/cycle)	31814 (0.8 MACs/cycle)	31814 (0.8 MACs/cycle)
mtx_mpy32x32	40x81 x 81x8	32486 (0.8 MACs/cycle)	32486 (0.8 MACs/cycle)	32486 (0.8 MACs/cycle)
mtx_mpy32x32	40x82 x 82x8	32490 (0.8 MACs/cycle)	32490 (0.8 MACs/cycle)	32490 (0.8 MACs/cycle)
mtx_mpy32x32	40x83 x 83x8	33162 (0.8 MACs/cycle)	33162 (0.8 MACs/cycle)	33162 (0.8 MACs/cycle)
mtx_mpy32x32	2x100 x 100x8	3766 (0.4 MACs/cycle)	3766 (0.4 MACs/cycle)	3766 (0.4 MACs/cycle)
mtx_mpy32x32	8x80 x 80x2	1931 (0.7 MACs/cycle)	1931 (0.7 MACs/cycle)	1931 (0.7 MACs/cycle)
mtx_mpy32x32	8x4 x 4x2	380 (0.2 MACs/cycle)	380 (0.2 MACs/cycle)	380 (0.2 MACs/cycle)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
mtx_mpy32x32	8x16 x 16x2	619 (0.4 MACs/cycle)	619 (0.4 MACs/cycle)	619 (0.4 MACs/cycle)
mtx_mpy32x32	8x32 x 32x2	947 (0.5 MACs/cycle)	947 (0.5 MACs/cycle)	947 (0.5 MACs/cycle)
mtx_mpy32x32_fast	8x80 x 80x2	1400 (0.9 MACs/cycle)	1400 (0.9 MACs/cycle)	1400 (0.9 MACs/cycle)
mtx_mpy32x32_fast	8x84 x 84x2	1464 (0.9 MACs/cycle)	1464 (0.9 MACs/cycle)	1464 (0.9 MACs/cycle)
mtx_mpy32x32_fast	8x4 x 4x2	185 (0.3 MACs/cycle)	185 (0.3 MACs/cycle)	185 (0.3 MACs/cycle)
mtx_mpy32x32_fast	8x16 x 16x2	376 (0.7 MACs/cycle)	376 (0.7 MACs/cycle)	376 (0.7 MACs/cycle)
mtx_mpy32x32_fast	8x32 x 32x2	632 (0.8 MACs/cycle)	632 (0.8 MACs/cycle)	632 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x100 x 100x1	2014 (0.8 MACs/cycle)	2014 (0.8 MACs/cycle)	2014 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x101 x 101x1	2046 (0.8 MACs/cycle)	2046 (0.8 MACs/cycle)	2046 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x102 x 102x1	2046 (0.8 MACs/cycle)	2046 (0.8 MACs/cycle)	2046 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x103 x 103x1	2078 (0.8 MACs/cycle)	2078 (0.8 MACs/cycle)	2078 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x104 x 104x1	2078 (0.8 MACs/cycle)	2078 (0.8 MACs/cycle)	2078 (0.8 MACs/cycle)
mtx_vecmpy32x32	40x40 x 40x1	2614 (0.6 MACs/cycle)	2614 (0.6 MACs/cycle)	2614 (0.6 MACs/cycle)
mtx_vecmpy32x32_fast	16x100 x 100x1	1725 (0.9 MACs/cycle)	1725 (0.9 MACs/cycle)	1725 (0.9 MACs/cycle)
mtx_vecmpy32x32_fast	16x104 x 104x1	1789 (0.9 MACs/cycle)	1789 (0.9 MACs/cycle)	1789 (0.9 MACs/cycle)
mtx_vecmpy32x32_fast	40x40 x 40x1	1893 (0.8 MACs/cycle)	1893 (0.8 MACs/cycle)	1893 (0.8 MACs/cycle)
mtx_add2x2_16x16	2x2, L=256	801 (3.1 cycles/matrix)	801 (3.1 cycles/matrix)	801 (3.1 cycles/matrix)
mtx_add3x3_16x16	3x3, L=256	1761 (6.9 cycles/matrix)	1761 (6.9 cycles/matrix)	1761 (6.9 cycles/matrix)
mtx_add4x4_16x16	4x4, L=256	3105 (12.1 cycles/matrix)	3105 (12.1 cycles/matrix)	3105 (12.1 cycles/matrix)
mtx_add2x2_32x32	2x2, L=256	1566 (6.1 cycles/matrix)	1566 (6.1 cycles/matrix)	1566 (6.1 cycles/matrix)
mtx_add3x3_32x32	3x3, L=256	3486 (13.6 cycles/matrix)	3486 (13.6 cycles/matrix)	3486 (13.6 cycles/matrix)
mtx_add4x4_32x32	4x4, L=256	6174 (24.1 cycles/matrix)	6174 (24.1 cycles/matrix)	6174 (24.1 cycles/matrix)
mtx_add2x2f	2x2, L=256	1583 (6.2 cycles/matrix)	1583 (6.2 cycles/matrix)	1583 (6.2 cycles/matrix)
mtx_add3x3f	3x3, L=256	3503 (13.7 cycles/matrix)	3503 (13.7 cycles/matrix)	3503 (13.7 cycles/matrix)
mtx_add4x4f	4x4, L=256	6191 (24.2 cycles/matrix)	6191 (24.2 cycles/matrix)	6191 (24.2 cycles/matrix)
cmtx_add2x2_16x16	2x2, L=256	1569 (6.1 cycles/matrix)	1569 (6.1 cycles/matrix)	1569 (6.1 cycles/matrix)
cmtx_add3x3_16x16	3x3, L=256	3489 (13.6 cycles/matrix)	3489 (13.6 cycles/matrix)	3489 (13.6 cycles/matrix)
cmtx_add4x4_16x16	4x4, L=256	6177 (24.1 cycles/matrix)	6177 (24.1 cycles/matrix)	6177 (24.1 cycles/matrix)
cmtx_add2x2_32x32	2x2, L=256	3095 (12.1 cycles/matrix)	3095 (12.1 cycles/matrix)	3095 (12.1 cycles/matrix)
cmtx_add3x3_32x32	3x3, L=256	6935 (27.1 cycles/matrix)	6935 (27.1 cycles/matrix)	6935 (27.1 cycles/matrix)
cmtx_add4x4_32x32	4x4, L=256	12311 (48.1 cycles/matrix)	12311 (48.1 cycles/matrix)	12311 (48.1 cycles/matrix)
cmtx_add2x2f	2x2, L=256	3119 (12.2 cycles/matrix)	3119 (12.2 cycles/matrix)	3119 (12.2 cycles/matrix)
cmtx_add3x3f	3x3, L=256	6959 (27.2 cycles/matrix)	6959 (27.2 cycles/matrix)	6959 (27.2 cycles/matrix)
cmtx_add4x4f	4x4, L=256	12335 (48.2 cycles/matrix)	12335 (48.2 cycles/matrix)	12335 (48.2 cycles/matrix)
mtx_sub2x2_16x16	2x2, L=256	801 (3.1 cycles/matrix)	801 (3.1 cycles/matrix)	801 (3.1 cycles/matrix)
mtx_sub3x3_16x16	3x3, L=256	1761 (6.9 cycles/matrix)	1761 (6.9 cycles/matrix)	1761 (6.9 cycles/matrix)
mtx_sub4x4_16x16	4x4, L=256	3105 (12.1 cycles/matrix)	3105 (12.1 cycles/matrix)	3105 (12.1 cycles/matrix)
mtx_sub2x2_32x32	2x2, L=256	1566 (6.1 cycles/matrix)	1566 (6.1 cycles/matrix)	1566 (6.1 cycles/matrix)
mtx_sub3x3_32x32	3x3, L=256	3486 (13.6 cycles/matrix)	3486 (13.6 cycles/matrix)	3486 (13.6 cycles/matrix)
mtx_sub4x4_32x32	4x4, L=256	6174 (24.1 cycles/matrix)	6174 (24.1 cycles/matrix)	6174 (24.1 cycles/matrix)
mtx_sub2x2f	2x2, L=256	1583 (6.2 cycles/matrix)	1583 (6.2 cycles/matrix)	1583 (6.2 cycles/matrix)
mtx_sub3x3f	3x3, L=256	3503 (13.7 cycles/matrix)	3503 (13.7 cycles/matrix)	3503 (13.7 cycles/matrix)
mtx_sub4x4f	4x4, L=256	6191 (24.2 cycles/matrix)	6191 (24.2 cycles/matrix)	6191 (24.2 cycles/matrix)
cmtx_sub2x2_16x16	2x2, L=256	1569 (6.1 cycles/matrix)	1569 (6.1 cycles/matrix)	1569 (6.1 cycles/matrix)
cmtx_sub3x3_16x16	3x3, L=256	3489 (13.6 cycles/matrix)	3489 (13.6 cycles/matrix)	3489 (13.6 cycles/matrix)
cmtx_sub4x4_16x16	4x4, L=256	6177 (24.1 cycles/matrix)	6177 (24.1 cycles/matrix)	6177 (24.1 cycles/matrix)
cmtx_sub2x2_32x32	2x2, L=256	3102 (12.1 cycles/matrix)	3102 (12.1 cycles/matrix)	3102 (12.1 cycles/matrix)
cmtx_sub3x3_32x32	3x3, L=256	6942 (27.1 cycles/matrix)	6942 (27.1 cycles/matrix)	6942 (27.1 cycles/matrix)
cmtx_sub4x4_32x32	4x4, L=256	12318 (48.1 cycles/matrix)	12318 (48.1 cycles/matrix)	12318 (48.1 cycles/matrix)
cmtx_sub2x2f	2x2, L=256	3119 (12.2 cycles/matrix)	3119 (12.2 cycles/matrix)	3119 (12.2 cycles/matrix)
cmtx_sub3x3f	3x3, L=256	6959 (27.2 cycles/matrix)	6959 (27.2 cycles/matrix)	6959 (27.2 cycles/matrix)
cmtx_sub4x4f	4x4, L=256	12335 (48.2 cycles/matrix)	12335 (48.2 cycles/matrix)	12335 (48.2 cycles/matrix)
mtx_mul2x2_16x16	2x2, L=256	2076 (8.1 cycles/matrix)	2076 (8.1 cycles/matrix)	2076 (8.1 cycles/matrix)
mtx_mul3x3_16x16	3x3, L=256	11092 (43.3 cycles/matrix)	11092 (43.3 cycles/matrix)	11092 (43.3 cycles/matrix)
mtx_mul4x4_16x16	4x4, L=256	10731 (41.9 cycles/matrix)	10731 (41.9 cycles/matrix)	16221 (63.4 cycles/matrix)
mtx_mul2x2_32x32	2x2, L=256	2583 (10.1 cycles/matrix)	2583 (10.1 cycles/matrix)	2583 (10.1 cycles/matrix)
mtx_mul3x3_32x32	3x3, L=256	11289 (44.1 cycles/matrix)	11289 (44.1 cycles/matrix)	11289 (44.1 cycles/matrix)
mtx_mul4x4_32x32	4x4, L=256	26896 (105.1 cycles/matrix)	26896 (105.1 cycles/matrix)	26896 (105.1 cycles/matrix)
mtx_mul2x2f	2x2, L=256	2075 (8.1 cycles/matrix)	2075 (8.1 cycles/matrix)	2075 (8.1 cycles/matrix)
mtx_mul3x3f	3x3, L=256	9245 (36.1 cycles/matrix)	9245 (36.1 cycles/matrix)	9245 (36.1 cycles/matrix)
mtx_mul4x4f	4x4, L=256	24336 (95.1 cycles/matrix)	24336 (95.1 cycles/matrix)	24336 (95.1 cycles/matrix)
cmtx_mul2x2_16x16	2x2, L=256	5657 (22.1 cycles/matrix)	5657 (22.1 cycles/matrix)	5657 (22.1 cycles/matrix)
cmtx_mul3x3_16x16	3x3, L=256	25360 (99.1 cycles/matrix)	25360 (99.1 cycles/matrix)	25360 (99.1 cycles/matrix)
cmtx_mul4x4_16x16	4x4, L=256	54545 (213.1 cycles/matrix)	54545 (213.1 cycles/matrix)	54545 (213.1 cycles/matrix)
cmtx_mul2x2_32x32	2x2, L=256	9238 (36.1 cycles/matrix)	9238 (36.1 cycles/matrix)	9238 (36.1 cycles/matrix)
cmtx_mul3x3_32x32	3x3, L=256	35859 (140.1 cycles/matrix)	35859 (140.1 cycles/matrix)	35859 (140.1 cycles/matrix)
cmtx_mul4x4_32x32	4x4, L=256	82447 (322.1 cycles/matrix)	82447 (322.1 cycles/matrix)	82447 (322.1 cycles/matrix)
cmtx_mul2x2f	2x2, L=256	8230 (32.1 cycles/matrix)	8230 (32.1 cycles/matrix)	8230 (32.1 cycles/matrix)
cmtx_mul3x3f	3x3, L=256	32050 (125.2 cycles/matrix)	32050 (125.2 cycles/matrix)	32050 (125.2 cycles/matrix)
cmtx_mul4x4f	4x4, L=256	83985 (328.1 cycles/matrix)	83985 (328.1 cycles/matrix)	83985 (328.1 cycles/matrix)
mtx_tran2x2_16x16	2x2, L=256	537 (2.1 cycles/matrix)	537 (2.1 cycles/matrix)	537 (2.1 cycles/matrix)
mtx_tran3x3_16x16	3x3, L=256	2332 (9.1 cycles/matrix)	2332 (9.1 cycles/matrix)	2332 (9.1 cycles/matrix)
mtx_tran4x4_16x16	4x4, L=256	2325 (9.1 cycles/matrix)	2325 (9.1 cycles/matrix)	2325 (9.1 cycles/matrix)
mtx_tran2x2_32x32	2x2, L=256	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)
mtx_tran3x3_32x32	3x3, L=256	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)
mtx_tran4x4_32x32	4x4, L=256	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)
mtx_tran2x2f	2x2, L=256	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)
mtx_tran3x3f	3x3, L=256	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)
mtx_tran4x4f	4x4, L=256	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)
cmtx_tran2x2_16x16	2x2, L=256	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)	1042 (4.1 cycles/matrix)
cmtx_tran3x3_16x16	3x3, L=256	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)	2322 (9.1 cycles/matrix)
cmtx_tran4x4_16x16	4x4, L=256	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)	4111 (16.1 cycles/matrix)
cmtx_tran2x2_32x32	2x2, L=256	2062 (8.1 cycles/matrix)	2062 (8.1 cycles/matrix)	2062 (8.1 cycles/matrix)
cmtx_tran3x3_32x32	3x3, L=256	4622 (18.1 cycles/matrix)	4622 (18.1 cycles/matrix)	4622 (18.1 cycles/matrix)
cmtx_tran4x4_32x32	4x4, L=256	8206 (32.1 cycles/matrix)	8206 (32.1 cycles/matrix)	8206 (32.1 cycles/matrix)
cmtx_tran2x2f	2x2, L=256	2062 (8.1 cycles/matrix)	2062 (8.1 cycles/matrix)	2062 (8.1 cycles/matrix)
cmtx_tran3x3f	3x3, L=256	4622 (18.1 cycles/matrix)	4622 (18.1 cycles/matrix)	4622 (18.1 cycles/matrix)
cmtx_tran4x4f	4x4, L=256	8206 (32.1 cycles/matrix)	8206 (32.1 cycles/matrix)	8206 (32.1 cycles/matrix)
mtx_det2x2_16x16	2x2, L=256	1048 (4.1 cycles/matrix)	1048 (4.1 cycles/matrix)	1048 (4.1 cycles/matrix)
mtx_det3x3_16x16	3x3, L=256	5504 (21.5 cycles/matrix)	5504 (21.5 cycles/matrix)	5504 (21.5 cycles/matrix)
mtx_det4x4_16x16	4x4, L=256	12025 (47.0 cycles/matrix)	12025 (47.0 cycles/matrix)	12025 (47.0 cycles/matrix)
mtx_det2x2_32x32	2x2, L=256	1305 (5.1 cycles/matrix)	1305 (5.1 cycles/matrix)	1305 (5.1 cycles/matrix)
mtx_det3x3_32x32	3x3, L=256	2844 (11.1 cycles/matrix)	2844 (11.1 cycles/matrix)	2844 (11.1 cycles/matrix)
mtx_det4x4_32x32	4x4, L=256	8727 (34.1 cycles/matrix)	8727 (34.1 cycles/matrix)	8727 (34.1 cycles/matrix)
mtx_det2x2f	2x2, L=256	796 (3.1 cycles/matrix)	796 (3.1 cycles/matrix)	796 (3.1 cycles/matrix)
mtx_det3x3f	3x3, L=256	2726 (10.6 cycles/matrix)	2726 (10.6 cycles/matrix)	2726 (10.6 cycles/matrix)
mtx_det4x4f	4x4, L=256	7970 (31.1 cycles/matrix)	7970 (31.1 cycles/matrix)	7970 (31.1 cycles/matrix)
cmtx_det2x2_16x16	2x2, L=256	1692 (6.6 cycles/matrix)	1692 (6.6 cycles/matrix)	1692 (6.6 cycles/matrix)
cmtx_det3x3_16x16	3x3, L=256	9952 (38.9 cycles/matrix)	9952 (38.9 cycles/matrix)	9952 (38.9 cycles/matrix)
cmtx_det4x4_16x16	4x4, L=256	25611 (100.0 cycles/matrix)	25611 (100.0 cycles/matrix)	25611 (100.0 cycles/matrix)
cmtx_det2x2_32x32	2x2, L=256	2321 (9.1 cycles/matrix)	2321 (9.1 cycles/matrix)	2321 (9.1 cycles/matrix)
cmtx_det3x3_32x32	3x3, L=256	10267 (40.1 cycles/matrix)	10267 (40.1 cycles/matrix)	10267 (40.1 cycles/matrix)



Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
cmtx_det4x4_32x32	4x4, L=256	70420 (275.1 cycles/matrix)	70420 (275.1 cycles/matrix)	70420 (275.1 cycles/matrix)
cmtx_det2x2f	2x2, L=256	2078 (8.1 cycles/matrix)	2078 (8.1 cycles/matrix)	2078 (8.1 cycles/matrix)
cmtx_det3x3f	3x3, L=256	10771 (42.1 cycles/matrix)	10771 (42.1 cycles/matrix)	10771 (42.1 cycles/matrix)
cmtx_det4x4f	4x4, L=256	80403 (314.1 cycles/matrix)	80403 (314.1 cycles/matrix)	80403 (314.1 cycles/matrix)
q2rot_16x16	L=256	5273 (20.6 cycles/matrix)	5273 (20.6 cycles/matrix)	5273 (20.6 cycles/matrix)
q2rot_32x32	L=256	6163 (24.1 cycles/matrix)	6163 (24.1 cycles/matrix)	6163 (24.1 cycles/matrix)
q2rotf	L=256	5676 (22.2 cycles/matrix)	5676 (22.2 cycles/matrix)	5676 (22.2 cycles/matrix)
Matrix inversion				
mtx_inv2x2f		46 (46.0 cycles/matrix)	46 (46.0 cycles/matrix)	46 (46.0 cycles/matrix)
mtx_inv3x3f		272 (272.0 cycles/matrix)	272 (272.0 cycles/matrix)	272 (272.0 cycles/matrix)
mtx_inv4x4f		566 (566.0 cycles/matrix)	566 (566.0 cycles/matrix)	566 (566.0 cycles/matrix)
cmtx_inv2x2f		81 (81.0 cycles/matrix)	81 (81.0 cycles/matrix)	81 (81.0 cycles/matrix)
cmtx_inv3x3f		643 (643.0 cycles/matrix)	643 (643.0 cycles/matrix)	643 (643.0 cycles/matrix)
cmtx_inv4x4f		1205 (1205.0 cycles/matrix)	1205 (1205.0 cycles/matrix)	1205 (1205.0 cycles/matrix)
Vector operations:				
vec_add16x16	N=200	174 (0.9 cycles/pts)	174 (0.9 cycles/pts)	174 (0.9 cycles/pts)
vec_add24x24	N=200	322 (1.6 cycles/pts)	322 (1.6 cycles/pts)	322 (1.6 cycles/pts)
vec_add32x32	N=200	321 (1.6 cycles/pts)	321 (1.6 cycles/pts)	321 (1.6 cycles/pts)
vec_add16x16_fast	N=200	164 (0.8 cycles/pts)	164 (0.8 cycles/pts)	164 (0.8 cycles/pts)
vec_add24x24_fast	N=200	314 (1.6 cycles/pts)	314 (1.6 cycles/pts)	314 (1.6 cycles/pts)
vec_add32x32_fast	N=200	314 (1.6 cycles/pts)	314 (1.6 cycles/pts)	314 (1.6 cycles/pts)
vec_power16x16	N=200	82 (0.4 cycles/pts)	82 (0.4 cycles/pts)	184 (0.9 cycles/pts)
vec_power24x24	N=200	133 (0.7 cycles/pts)	133 (0.7 cycles/pts)	133 (0.7 cycles/pts)
vec_power32x32	N=200	231 (1.2 cycles/pts)	231 (1.2 cycles/pts)	231 (1.2 cycles/pts)
vec_power16x16_fast	N=200	70 (0.3 cycles/pts)	70 (0.3 cycles/pts)	170 (0.8 cycles/pts)
vec_power24x24_fast	N=200	121 (0.6 cycles/pts)	121 (0.6 cycles/pts)	121 (0.6 cycles/pts)
vec_power32x32_fast	N=200	223 (1.1 cycles/pts)	223 (1.1 cycles/pts)	223 (1.1 cycles/pts)
vec_scale16x16	N=200	129 (0.6 cycles/pts)	182 (0.9 cycles/pts)	182 (0.9 cycles/pts)
vec_scale24x24	N=200	329 (1.6 cycles/pts)	329 (1.6 cycles/pts)	329 (1.6 cycles/pts)
vec_scale32x24	N=200	228 (1.1 cycles/pts)	327 (1.6 cycles/pts)	327 (1.6 cycles/pts)
vec_shift16x16	N=200	180 (0.9 cycles/pts)	175 (0.9 cycles/pts)	175 (0.9 cycles/pts)
vec_shift24x24	N=200	328 (1.6 cycles/pts)	328 (1.6 cycles/pts)	328 (1.6 cycles/pts)
vec_shift32x32	N=200	327 (1.6 cycles/pts)	327 (1.6 cycles/pts)	327 (1.6 cycles/pts)
vec_scale16x16_fast	N=200	124 (0.6 cycles/pts)	174 (0.9 cycles/pts)	174 (0.9 cycles/pts)
vec_scale24x24_fast	N=200	320 (1.6 cycles/pts)	325 (1.6 cycles/pts)	325 (1.6 cycles/pts)
vec_scale32x24_fast	N=200	223 (1.1 cycles/pts)	323 (1.6 cycles/pts)	323 (1.6 cycles/pts)
vec_shift16x16_fast	N=200	175 (0.9 cycles/pts)	165 (0.8 cycles/pts)	165 (0.8 cycles/pts)
vec_shift24x24_fast	N=200	321 (1.6 cycles/pts)	321 (1.6 cycles/pts)	321 (1.6 cycles/pts)
vec_shift32x32_fast	N=200	320 (1.6 cycles/pts)	320 (1.6 cycles/pts)	320 (1.6 cycles/pts)
vec_dot16x16	N=200	136 (0.7 cycles/pts)	136 (0.7 cycles/pts)	327 (1.6 cycles/pts)
vec_dot24x24	N=200	230 (1.1 cycles/pts)	230 (1.1 cycles/pts)	230 (1.1 cycles/pts)
vec_dot32x16	N=200	177 (0.9 cycles/pts)	177 (0.9 cycles/pts)	177 (0.9 cycles/pts)
vec_dot16x16_fast	N=200	120 (0.6 cycles/pts)	120 (0.6 cycles/pts)	222 (1.1 cycles/pts)
vec_dot24x24_fast	N=200	219 (1.1 cycles/pts)	219 (1.1 cycles/pts)	219 (1.1 cycles/pts)
vec_dot32x16_fast	N=200	169 (0.8 cycles/pts)	169 (0.8 cycles/pts)	169 (0.8 cycles/pts)
vec_max16x16	N=200	144 (0.7 cycles/pts)	144 (0.7 cycles/pts)	144 (0.7 cycles/pts)
vec_min16x16	N=200	145 (0.7 cycles/pts)	145 (0.7 cycles/pts)	145 (0.7 cycles/pts)
vec_max24x24	N=200	131 (0.7 cycles/pts)	131 (0.7 cycles/pts)	131 (0.7 cycles/pts)
vec_min24x24	N=200	132 (0.7 cycles/pts)	132 (0.7 cycles/pts)	132 (0.7 cycles/pts)
vec_max32x32	N=200	129 (0.6 cycles/pts)	129 (0.6 cycles/pts)	129 (0.6 cycles/pts)
vec_min32x32	N=200	130 (0.6 cycles/pts)	130 (0.6 cycles/pts)	130 (0.6 cycles/pts)
vec_max16x16_fast	N=200	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_min16x16_fast	N=200	125 (0.6 cycles/pts)	125 (0.6 cycles/pts)	125 (0.6 cycles/pts)
vec_max24x24_fast	N=200	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_min24x24_fast	N=200	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_max32x32_fast	N=200	122 (0.6 cycles/pts)	122 (0.6 cycles/pts)	122 (0.6 cycles/pts)
vec_min32x32_fast	N=200	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)	123 (0.6 cycles/pts)
vec_poly4_24x24	N=200	850 (4.3 cycles/pts)	850 (4.3 cycles/pts)	850 (4.3 cycles/pts)
vec_poly8_24x24	N=200	1691 (8.5 cycles/pts)	1691 (8.5 cycles/pts)	1691 (8.5 cycles/pts)
vec_poly4_32x32	N=200	846 (4.2 cycles/pts)	1640 (8.2 cycles/pts)	1640 (8.2 cycles/pts)
vec_poly8_32x32	N=200	2084 (10.4 cycles/pts)	3931 (19.7 cycles/pts)	3931 (19.7 cycles/pts)
vec_dotf	N=200	234 (1.2 cycles/pts)	234 (1.2 cycles/pts)	234 (1.2 cycles/pts)
vec_addf	N=200	339 (1.7 cycles/pts)	339 (1.7 cycles/pts)	339 (1.7 cycles/pts)
vec_powerf	N=200	233 (1.2 cycles/pts)	233 (1.2 cycles/pts)	233 (1.2 cycles/pts)
vec_shifff	N=200	433 (2.2 cycles/pts)	433 (2.2 cycles/pts)	433 (2.2 cycles/pts)
vec_scalef	N=200	327 (1.6 cycles/pts)	327 (1.6 cycles/pts)	327 (1.6 cycles/pts)
vec_scale_sf	N=200	1132 (5.7 cycles/pts)	1132 (5.7 cycles/pts)	1132 (5.7 cycles/pts)
vec_minf	N=200	419 (2.1 cycles/pts)	419 (2.1 cycles/pts)	419 (2.1 cycles/pts)
vec_maxf	N=200	419 (2.1 cycles/pts)	419 (2.1 cycles/pts)	419 (2.1 cycles/pts)
vec_poly4f	N=200	1171 (5.9 cycles/pts)	1171 (5.9 cycles/pts)	1171 (5.9 cycles/pts)
vec_poly8f	N=200	2072 (10.4 cycles/pts)	2072 (10.4 cycles/pts)	2072 (10.4 cycles/pts)
vec_dot32x32	N=200	234 (1.2 cycles/pts)	234 (1.2 cycles/pts)	234 (1.2 cycles/pts)
vec_dot32x32_fast	N=200	221 (1.1 cycles/pts)	221 (1.1 cycles/pts)	221 (1.1 cycles/pts)
vec_poly4_16x16	N=200	852 (4.3 cycles/pts)	852 (4.3 cycles/pts)	852 (4.3 cycles/pts)
vec_poly8_16x16	N=200	1851 (9.3 cycles/pts)	1851 (9.3 cycles/pts)	1851 (9.3 cycles/pts)
Vector mathematics:				
vec_recip16x16	N=256	3763 (14.7 cycles/pts)	3763 (14.7 cycles/pts)	3763 (14.7 cycles/pts)
vec_recip24x24	N=256	3816 (14.9 cycles/pts)	3816 (14.9 cycles/pts)	3816 (14.9 cycles/pts)
vec_recip32x32	N=256	6430 (25.1 cycles/pts)	7544 (29.5 cycles/pts)	7544 (29.5 cycles/pts)
vec_divide16x16	N=256	4792 (18.7 cycles/pts)	4792 (18.7 cycles/pts)	4792 (18.7 cycles/pts)
vec_divide24x24	N=256	2855 (11.2 cycles/pts)	3364 (13.1 cycles/pts)	3364 (13.1 cycles/pts)
vec_divide32x32	N=256	4386 (17.1 cycles/pts)	6075 (23.7 cycles/pts)	6075 (23.7 cycles/pts)
vec_divide16x16_fast	N=256	3590 (14.0 cycles/pts)	3590 (14.0 cycles/pts)	3590 (14.0 cycles/pts)
vec_divide24x24_fast	N=256	2843 (11.1 cycles/pts)	2843 (11.1 cycles/pts)	2843 (11.1 cycles/pts)
vec_divide32x32_fast	N=256	4379 (17.1 cycles/pts)	6048 (23.6 cycles/pts)	6048 (23.6 cycles/pts)
vec_bexp16	N=256	286 (1.1 cycles/pts)	286 (1.1 cycles/pts)	286 (1.1 cycles/pts)
vec_bexp24	N=256	288 (1.1 cycles/pts)	288 (1.1 cycles/pts)	288 (1.1 cycles/pts)
vec_bexp32	N=256	287 (1.1 cycles/pts)	287 (1.1 cycles/pts)	287 (1.1 cycles/pts)
vec_bexp16_fast	N=256	152 (0.6 cycles/pts)	152 (0.6 cycles/pts)	152 (0.6 cycles/pts)
vec_bexp24_fast	N=256	148 (0.6 cycles/pts)	148 (0.6 cycles/pts)	148 (0.6 cycles/pts)
vec_bexp32_fast	N=256	147 (0.6 cycles/pts)	147 (0.6 cycles/pts)	147 (0.6 cycles/pts)
vec_log2_32x32	N=256	3357 (13.1 cycles/pts)	3357 (13.1 cycles/pts)	3357 (13.1 cycles/pts)
vec_logn_32x32	N=256	3614 (14.1 cycles/pts)	3868 (15.1 cycles/pts)	3868 (15.1 cycles/pts)
vec_log10_32x32	N=256	3614 (14.1 cycles/pts)	3868 (15.1 cycles/pts)	3868 (15.1 cycles/pts)
vec_log2_24x24	N=256	3356 (13.1 cycles/pts)	3356 (13.1 cycles/pts)	3356 (13.1 cycles/pts)
vec_logn_24x24	N=256	3614 (14.1 cycles/pts)	3868 (15.1 cycles/pts)	3868 (15.1 cycles/pts)
vec_log10_24x24	N=256	3614 (14.1 cycles/pts)	3868 (15.1 cycles/pts)	3868 (15.1 cycles/pts)
vec_antilog2_24x24	N=256	1577 (6.2 cycles/pts)	2594 (10.1 cycles/pts)	2594 (10.1 cycles/pts)
vec_antilogn_24x24	N=256	1963 (7.7 cycles/pts)	2982 (11.6 cycles/pts)	2982 (11.6 cycles/pts)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
vec_antilog10_24x24	N=256	1963 (7.7 cycles/pts)	2982 (11.6 cycles/pts)	2982 (11.6 cycles/pts)
vec_antilog2_32x32	N=256	1577 (6.2 cycles/pts)	2594 (10.1 cycles/pts)	2594 (10.1 cycles/pts)
vec_antilogn_32x32	N=256	1963 (7.7 cycles/pts)	2982 (11.6 cycles/pts)	2982 (11.6 cycles/pts)
vec_antilog10_32x32	N=256	1963 (7.7 cycles/pts)	2982 (11.6 cycles/pts)	2982 (11.6 cycles/pts)
vec_sine32x32	N=256	1832 (7.2 cycles/pts)	2335 (9.1 cycles/pts)	2335 (9.1 cycles/pts)
vec_cosine32x32	N=256	1834 (7.2 cycles/pts)	2335 (9.1 cycles/pts)	2335 (9.1 cycles/pts)
vec_sine24x24	N=256	1454 (5.7 cycles/pts)	1454 (5.7 cycles/pts)	1454 (5.7 cycles/pts)
vec_cosine24x24	N=256	1711 (6.7 cycles/pts)	1711 (6.7 cycles/pts)	1711 (6.7 cycles/pts)
vec_sine32x32_fast	N=256	1822 (7.1 cycles/pts)	2330 (9.1 cycles/pts)	2330 (9.1 cycles/pts)
vec_cosine32x32_fast	N=256	1821 (7.1 cycles/pts)	2331 (9.1 cycles/pts)	2331 (9.1 cycles/pts)
vec_sine24x24_fast	N=256	1444 (5.6 cycles/pts)	1444 (5.6 cycles/pts)	1444 (5.6 cycles/pts)
vec_cosine24x24_fast	N=256	1699 (6.6 cycles/pts)	1699 (6.6 cycles/pts)	1699 (6.6 cycles/pts)
vec_tan32x32	N=256	7091 (27.7 cycles/pts)	8885 (34.7 cycles/pts)	8885 (34.7 cycles/pts)
vec_atan32x32	N=256	3100 (12.1 cycles/pts)	3187 (12.4 cycles/pts)	3187 (12.4 cycles/pts)
vec_tan24x24	N=256	6250 (24.4 cycles/pts)	6250 (24.4 cycles/pts)	6250 (24.4 cycles/pts)
vec_atan24x24	N=256	1631 (6.4 cycles/pts)	1889 (7.4 cycles/pts)	1889 (7.4 cycles/pts)
vec_sqrt24x24	N=256	2852 (11.1 cycles/pts)	3635 (14.2 cycles/pts)	3635 (14.2 cycles/pts)
vec_sqrt24x24_fast	N=256	3103 (12.1 cycles/pts)	3998 (15.6 cycles/pts)	3998 (15.6 cycles/pts)
vec_sqrt32x32	N=256	2723 (10.6 cycles/pts)	3637 (14.2 cycles/pts)	3637 (14.2 cycles/pts)
vec_sqrt32x32_fast	N=256	2850 (11.1 cycles/pts)	3745 (14.6 cycles/pts)	3745 (14.6 cycles/pts)
scl_recip16x16		43 (cycles)	43 (cycles)	43 (cycles)
scl_recip32x32		48 (cycles)	59 (cycles)	59 (cycles)
scl_recip24x24		57 (cycles)	68 (cycles)	68 (cycles)
scl_divide16x16		55 (cycles)	83 (cycles)	83 (cycles)
scl_divide32x32		51 (cycles)	63 (cycles)	63 (cycles)
scl_divide24x24		59 (cycles)	71 (cycles)	71 (cycles)
scl_log2_32x32		34 (cycles)	34 (cycles)	34 (cycles)
scl_logn_32x32		37 (cycles)	38 (cycles)	38 (cycles)
scl_log10_32x32		37 (cycles)	38 (cycles)	38 (cycles)
scl_log2_24x24		36 (cycles)	36 (cycles)	36 (cycles)
scl_logn_24x24		38 (cycles)	39 (cycles)	39 (cycles)
scl_log10_24x24		38 (cycles)	39 (cycles)	39 (cycles)
scl_antilog2_32x32		35 (cycles)	41 (cycles)	41 (cycles)
scl_antilogn_32x32		37 (cycles)	44 (cycles)	44 (cycles)
scl_antilog10_32x32		37 (cycles)	44 (cycles)	44 (cycles)
scl_antilog2_24x24		36 (cycles)	42 (cycles)	42 (cycles)
scl_antilogn_24x24		38 (cycles)	44 (cycles)	44 (cycles)
scl_antilog10_24x24		38 (cycles)	44 (cycles)	44 (cycles)
scl_sqrt32x32		38 (cycles)	48 (cycles)	48 (cycles)
scl_sqrt24x24		39 (cycles)	49 (cycles)	49 (cycles)
scl_sine32x32		34 (cycles)	36 (cycles)	36 (cycles)
scl_cosine32x32		34 (cycles)	37 (cycles)	37 (cycles)
scl_sine24x24		34 (cycles)	34 (cycles)	34 (cycles)
scl_cosine24x24		35 (cycles)	35 (cycles)	35 (cycles)
scl_tan32x32		65 (cycles)	76 (cycles)	76 (cycles)
scl_atan32x32		39 (cycles)	42 (cycles)	42 (cycles)
scl_tan24x24		63 (cycles)	63 (cycles)	63 (cycles)
scl_atan24x24		29 (cycles)	31 (cycles)	31 (cycles)
scl_bexp16		19 (cycles)	19 (cycles)	19 (cycles)
scl_bexp24		18 (cycles)	18 (cycles)	18 (cycles)
scl_bexp32		17 (cycles)	17 (cycles)	17 (cycles)
vec_bexpf	N=256	801 (3.1 cycles/pts)	801 (3.1 cycles/pts)	801 (3.1 cycles/pts)
vec_int2float	N=256	794 (3.1 cycles/pts)	794 (3.1 cycles/pts)	794 (3.1 cycles/pts)
vec_float2int	N=256	663 (2.6 cycles/pts)	663 (2.6 cycles/pts)	663 (2.6 cycles/pts)
vec_complex2mag	N=256	11287 (44.1 cycles/pts)	11287 (44.1 cycles/pts)	11287 (44.1 cycles/pts)
vec_complex2invmag	N=256	8470 (33.1 cycles/pts)	8470 (33.1 cycles/pts)	8470 (33.1 cycles/pts)
vec_sinef	N=256	13223 (51.7 cycles/pts)	13223 (51.7 cycles/pts)	13223 (51.7 cycles/pts)
vec_cosinef	N=256	12966 (50.6 cycles/pts)	12966 (50.6 cycles/pts)	12966 (50.6 cycles/pts)
vec_tanf	N=256	14580 (57.0 cycles/pts)	14580 (57.0 cycles/pts)	14580 (57.0 cycles/pts)
vec_log2f	N=256	8468 (33.1 cycles/pts)	8468 (33.1 cycles/pts)	8468 (33.1 cycles/pts)
vec_log10f	N=256	8711 (34.0 cycles/pts)	8711 (34.0 cycles/pts)	8711 (34.0 cycles/pts)
vec_lognf	N=256	8683 (33.9 cycles/pts)	8683 (33.9 cycles/pts)	8683 (33.9 cycles/pts)
vec_antilog2f	N=256	4254 (16.6 cycles/pts)	4513 (17.6 cycles/pts)	4513 (17.6 cycles/pts)
vec_antilognf	N=256	4400 (17.2 cycles/pts)	4661 (18.2 cycles/pts)	4661 (18.2 cycles/pts)
vec_antilog10f	N=256	4633 (18.1 cycles/pts)	5149 (20.1 cycles/pts)	5149 (20.1 cycles/pts)
vec_atanf	N=256	10247 (40.0 cycles/pts)	10247 (40.0 cycles/pts)	10247 (40.0 cycles/pts)
vec_atan2f	N=256	15256 (59.6 cycles/pts)	15256 (59.6 cycles/pts)	15256 (59.6 cycles/pts)
scl_bexpf		23 (cycles)	23 (cycles)	23 (cycles)
scl_int2float		14 (cycles)	14 (cycles)	14 (cycles)
scl_float2int		23 (cycles)	23 (cycles)	23 (cycles)
scl_complex2mag		81 (cycles)	81 (cycles)	81 (cycles)
scl_complex2invmag		76 (cycles)	76 (cycles)	76 (cycles)
scl_sinef		92 (cycles)	92 (cycles)	92 (cycles)
scl_cosinef		91 (cycles)	91 (cycles)	91 (cycles)
scl_tanf	x=0.4	97 (cycles)	97 (cycles)	97 (cycles)
scl_tanf	x=1.2	113 (cycles)	113 (cycles)	113 (cycles)
scl_log2f		77 (cycles)	77 (cycles)	77 (cycles)
scl_log10f		77 (cycles)	77 (cycles)	77 (cycles)
scl_lognf		78 (cycles)	78 (cycles)	78 (cycles)
scl_antilog2f		58 (cycles)	62 (cycles)	62 (cycles)
scl_antilog10f		57 (cycles)	62 (cycles)	62 (cycles)
scl_antilognf		53 (cycles)	58 (cycles)	58 (cycles)
scl_atanf	x=0.7	58 (cycles)	58 (cycles)	58 (cycles)
scl_atanf	x=1.3	74 (cycles)	74 (cycles)	74 (cycles)
scl_atan2f		94 (cycles)	94 (cycles)	94 (cycles)
vec_atan16x16	N=256	739 (2.9 cycles/pts)	739 (2.9 cycles/pts)	739 (2.9 cycles/pts)
vec_atan2_16x16	N=256	4585 (17.9 cycles/pts)	4585 (17.9 cycles/pts)	4585 (17.9 cycles/pts)
vec_log2_16x16	N=256	2342 (9.1 cycles/pts)	2342 (9.1 cycles/pts)	2342 (9.1 cycles/pts)
vec_logn_16x16	N=256	2343 (9.2 cycles/pts)	2343 (9.2 cycles/pts)	2343 (9.2 cycles/pts)
vec_log10_16x16	N=256	2591 (10.1 cycles/pts)	2591 (10.1 cycles/pts)	2591 (10.1 cycles/pts)
vec_antilog2_16x16	N=256	1569 (6.1 cycles/pts)	1569 (6.1 cycles/pts)	1569 (6.1 cycles/pts)
vec_antilogn_16x16	N=256	1824 (7.1 cycles/pts)	1824 (7.1 cycles/pts)	1824 (7.1 cycles/pts)
vec_antilog10_16x16	N=256	1824 (7.1 cycles/pts)	1824 (7.1 cycles/pts)	1824 (7.1 cycles/pts)
vec_sine16x16	N=256	1509 (5.9 cycles/pts)	1509 (5.9 cycles/pts)	1509 (5.9 cycles/pts)
vec_cosine16x16	N=256	1635 (6.4 cycles/pts)	1635 (6.4 cycles/pts)	1635 (6.4 cycles/pts)
vec_tan16x16	N=256	4303 (16.8 cycles/pts)	4303 (16.8 cycles/pts)	4303 (16.8 cycles/pts)
vec_sqrt16x16	N=256	2614 (10.2 cycles/pts)	2614 (10.2 cycles/pts)	2614 (10.2 cycles/pts)
vec_dividef	N=256	7442 (29.1 cycles/pts)	7442 (29.1 cycles/pts)	7442 (29.1 cycles/pts)
vec_recipf	N=256	3612 (14.1 cycles/pts)	3612 (14.1 cycles/pts)	3612 (14.1 cycles/pts)
vec_asinf	N=256	11949 (46.7 cycles/pts)	11949 (46.7 cycles/pts)	11949 (46.7 cycles/pts)
vec_acosf	N=256	11955 (46.7 cycles/pts)	11955 (46.7 cycles/pts)	11955 (46.7 cycles/pts)
vec_sqrtf	N=256	5339 (20.9 cycles/pts)	5339 (20.9 cycles/pts)	5339 (20.9 cycles/pts)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
vec_rsqrtf	N=256	4541 (17.7 cycles/pts)	4541 (17.7 cycles/pts)	4541 (17.7 cycles/pts)
vec_float2floor	N=256	782 (3.1 cycles/pts)	782 (3.1 cycles/pts)	782 (3.1 cycles/pts)
vec_float2ceil	N=256	781 (3.1 cycles/pts)	781 (3.1 cycles/pts)	781 (3.1 cycles/pts)
scl_atan16x16		24 (cycles)	24 (cycles)	24 (cycles)
scl_atan2_16x16		51 (cycles)	51 (cycles)	51 (cycles)
scl_log2_16x16		34 (cycles)	34 (cycles)	34 (cycles)
scl_logn_16x16		35 (cycles)	35 (cycles)	35 (cycles)
scl_log10_16x16		34 (cycles)	34 (cycles)	34 (cycles)
scl_antilog2_16x16		28 (cycles)	28 (cycles)	28 (cycles)
scl_antilogn_16x16		31 (cycles)	31 (cycles)	31 (cycles)
scl_antilog10_16x16		31 (cycles)	31 (cycles)	31 (cycles)
scl_sine16x16		31 (cycles)	31 (cycles)	31 (cycles)
scl_cosine16x16		29 (cycles)	29 (cycles)	29 (cycles)
scl_tan16x16		51 (cycles)	51 (cycles)	51 (cycles)
scl_sqrt16x16		40 (cycles)	40 (cycles)	40 (cycles)
scl_dividef		43 (cycles)	43 (cycles)	43 (cycles)
scl_recipf		36 (cycles)	36 (cycles)	36 (cycles)
scl_asinf	x=0.25	58 (cycles)	58 (cycles)	58 (cycles)
scl_asinf	x=0.75	89 (cycles)	89 (cycles)	89 (cycles)
scl_acosf	x=0.25	62 (cycles)	62 (cycles)	62 (cycles)
scl_acosf	x=0.75	85 (cycles)	85 (cycles)	85 (cycles)
scl_sqrtf		51 (cycles)	51 (cycles)	51 (cycles)
scl_rsqrtf		54 (cycles)	54 (cycles)	54 (cycles)
scl_float2floor		13 (cycles)	13 (cycles)	13 (cycles)
scl_float2ceil		13 (cycles)	13 (cycles)	13 (cycles)
<b>Fixed point complex FFT:</b>				
fft_cplx16x16	N=16	131 (0.122 pts/cycle)	131 (0.122 pts/cycle)	184 (0.087 pts/cycle)
fft_cplx16x16	N=32	330 (0.097 pts/cycle)	330 (0.097 pts/cycle)	371 (0.086 pts/cycle)
fft_cplx16x16	N=64	515 (0.124 pts/cycle)	515 (0.124 pts/cycle)	748 (0.086 pts/cycle)
fft_cplx16x16	N=128	1157 (0.111 pts/cycle)	1157 (0.111 pts/cycle)	1691 (0.076 pts/cycle)
fft_cplx16x16	N=256	2153 (0.119 pts/cycle)	2153 (0.119 pts/cycle)	3562 (0.072 pts/cycle)
fft_cplx16x16	N=512	5145 (0.100 pts/cycle)	5145 (0.100 pts/cycle)	8165 (0.063 pts/cycle)
fft_cplx16x16	N=1024	9981 (0.103 pts/cycle)	9981 (0.103 pts/cycle)	17284 (0.059 pts/cycle)
fft_cplx16x16	N=2048	23167 (0.088 pts/cycle)	23167 (0.088 pts/cycle)	39119 (0.052 pts/cycle)
fft_cplx16x16	N=4096	46370 (0.088 pts/cycle)	46370 (0.088 pts/cycle)	82414 (0.050 pts/cycle)
fft_cplx24x24	N=512, scaling=0	8893 (0.058 pts/cycle)	10434 (0.049 pts/cycle)	10434 (0.049 pts/cycle)
fft_cplx24x24	N=512, scaling=1	14583 (0.035 pts/cycle)	15293 (0.033 pts/cycle)	15294 (0.033 pts/cycle)
fft_cplx24x24	N=512, scaling=2	14582 (0.035 pts/cycle)	15293 (0.033 pts/cycle)	15293 (0.033 pts/cycle)
fft_cplx24x24	N=512, scaling=3	9908 (0.052 pts/cycle)	11084 (0.046 pts/cycle)	11084 (0.046 pts/cycle)
fft_cplx24x24	N=16, scaling=0	211 (0.076 pts/cycle)	222 (0.072 pts/cycle)	222 (0.072 pts/cycle)
fft_cplx24x24	N=32, scaling=0	430 (0.074 pts/cycle)	487 (0.066 pts/cycle)	487 (0.066 pts/cycle)
fft_cplx24x24	N=64, scaling=0	756 (0.085 pts/cycle)	838 (0.076 pts/cycle)	838 (0.076 pts/cycle)
fft_cplx24x24	N=128, scaling=0	1850 (0.069 pts/cycle)	2163 (0.059 pts/cycle)	2163 (0.059 pts/cycle)
fft_cplx24x24	N=256, scaling=0	3612 (0.071 pts/cycle)	4082 (0.063 pts/cycle)	4082 (0.063 pts/cycle)
fft_cplx24x24	N=16, scaling=3	235 (0.068 pts/cycle)	242 (0.066 pts/cycle)	242 (0.066 pts/cycle)
fft_cplx24x24	N=32, scaling=3	478 (0.067 pts/cycle)	518 (0.062 pts/cycle)	518 (0.062 pts/cycle)
fft_cplx24x24	N=64, scaling=3	843 (0.076 pts/cycle)	898 (0.071 pts/cycle)	898 (0.071 pts/cycle)
fft_cplx24x24	N=128, scaling=3	2068 (0.062 pts/cycle)	2294 (0.056 pts/cycle)	2294 (0.056 pts/cycle)
fft_cplx24x24	N=256, scaling=3	4009 (0.064 pts/cycle)	4366 (0.059 pts/cycle)	4366 (0.059 pts/cycle)
fft_cplx24x24	N=512, scaling=1	13046 (0.039 pts/cycle)	13756 (0.037 pts/cycle)	13756 (0.037 pts/cycle)
fft_cplx24x24	N=1024, scaling=2	29637 (0.035 pts/cycle)	30215 (0.034 pts/cycle)	33290 (0.031 pts/cycle)
fft_cplx24x24	N=2048, scaling=3	47436 (0.043 pts/cycle)	53354 (0.038 pts/cycle)	53354 (0.038 pts/cycle)
fft_cplx24x24	N=4096, scaling=0	86499 (0.047 pts/cycle)	98545 (0.042 pts/cycle)	98545 (0.042 pts/cycle)
fft_cplx32x16	N=16	193 (0.083 pts/cycle)	193 (0.083 pts/cycle)	193 (0.083 pts/cycle)
fft_cplx32x16	N=32	424 (0.075 pts/cycle)	424 (0.075 pts/cycle)	427 (0.075 pts/cycle)
fft_cplx32x16	N=64	801 (0.080 pts/cycle)	801 (0.080 pts/cycle)	802 (0.080 pts/cycle)
fft_cplx32x16	N=128	1977 (0.065 pts/cycle)	1977 (0.065 pts/cycle)	1991 (0.064 pts/cycle)
fft_cplx32x16	N=256	4010 (0.064 pts/cycle)	4010 (0.064 pts/cycle)	4010 (0.064 pts/cycle)
fft_cplx32x16	N=512	9756 (0.052 pts/cycle)	9756 (0.052 pts/cycle)	9818 (0.052 pts/cycle)
fft_cplx32x16	N=1024	20069 (0.051 pts/cycle)	20069 (0.051 pts/cycle)	20069 (0.051 pts/cycle)
fft_cplx32x16	N=2048	47415 (0.043 pts/cycle)	47415 (0.043 pts/cycle)	47669 (0.043 pts/cycle)
fft_cplx32x16	N=4096	97472 (0.042 pts/cycle)	97472 (0.042 pts/cycle)	97472 (0.042 pts/cycle)
fft_cplx32x32	N=16	179 (0.089 pts/cycle)	179 (0.089 pts/cycle)	179 (0.089 pts/cycle)
fft_cplx32x32	N=32	586 (0.055 pts/cycle)	586 (0.055 pts/cycle)	586 (0.055 pts/cycle)
fft_cplx32x32	N=64	1042 (0.061 pts/cycle)	1042 (0.061 pts/cycle)	1042 (0.061 pts/cycle)
fft_cplx32x32	N=128	2838 (0.045 pts/cycle)	2838 (0.045 pts/cycle)	2838 (0.045 pts/cycle)
fft_cplx32x32	N=256	5467 (0.047 pts/cycle)	5467 (0.047 pts/cycle)	5467 (0.047 pts/cycle)
fft_cplx32x32	N=512	14004 (0.037 pts/cycle)	14004 (0.037 pts/cycle)	14004 (0.037 pts/cycle)
fft_cplx32x32	N=1024	27710 (0.037 pts/cycle)	27710 (0.037 pts/cycle)	27710 (0.037 pts/cycle)
fft_cplx32x32	N=2048	67996 (0.030 pts/cycle)	67996 (0.030 pts/cycle)	67996 (0.030 pts/cycle)
fft_cplx32x32	N=4096	135595 (0.030 pts/cycle)	135595 (0.030 pts/cycle)	135595 (0.030 pts/cycle)
ifft_cplx16x16	N=16	126 (0.127 pts/cycle)	126 (0.127 pts/cycle)	180 (0.089 pts/cycle)
ifft_cplx16x16	N=32	331 (0.097 pts/cycle)	331 (0.097 pts/cycle)	387 (0.083 pts/cycle)
ifft_cplx16x16	N=64	515 (0.124 pts/cycle)	515 (0.124 pts/cycle)	792 (0.081 pts/cycle)
ifft_cplx16x16	N=128	1157 (0.111 pts/cycle)	1157 (0.111 pts/cycle)	1808 (0.071 pts/cycle)
ifft_cplx16x16	N=256	2153 (0.119 pts/cycle)	2153 (0.119 pts/cycle)	3901 (0.066 pts/cycle)
ifft_cplx16x16	N=512	5145 (0.100 pts/cycle)	5145 (0.100 pts/cycle)	8929 (0.057 pts/cycle)
ifft_cplx16x16	N=1024	9981 (0.103 pts/cycle)	9981 (0.103 pts/cycle)	19310 (0.053 pts/cycle)
ifft_cplx16x16	N=2048	23167 (0.088 pts/cycle)	23167 (0.088 pts/cycle)	43458 (0.047 pts/cycle)
ifft_cplx16x16	N=4096	46370 (0.088 pts/cycle)	46370 (0.088 pts/cycle)	93135 (0.044 pts/cycle)
ifft_cplx24x24	N=512, scaling=0	8890 (0.058 pts/cycle)	10431 (0.049 pts/cycle)	10431 (0.049 pts/cycle)
ifft_cplx24x24	N=512, scaling=1	13041 (0.039 pts/cycle)	15289 (0.033 pts/cycle)	13752 (0.037 pts/cycle)
ifft_cplx24x24	N=512, scaling=2	14579 (0.035 pts/cycle)	15291 (0.033 pts/cycle)	15291 (0.033 pts/cycle)
ifft_cplx24x24	N=512, scaling=3	9905 (0.052 pts/cycle)	11082 (0.046 pts/cycle)	11082 (0.046 pts/cycle)
ifft_cplx24x24	N=16, scaling=0	208 (0.077 pts/cycle)	219 (0.073 pts/cycle)	219 (0.073 pts/cycle)
ifft_cplx24x24	N=32, scaling=0	427 (0.075 pts/cycle)	484 (0.066 pts/cycle)	484 (0.066 pts/cycle)
ifft_cplx24x24	N=64, scaling=0	753 (0.085 pts/cycle)	835 (0.077 pts/cycle)	835 (0.077 pts/cycle)
ifft_cplx24x24	N=128, scaling=0	1847 (0.069 pts/cycle)	2160 (0.059 pts/cycle)	2160 (0.059 pts/cycle)
ifft_cplx24x24	N=256, scaling=0	3609 (0.071 pts/cycle)	4079 (0.063 pts/cycle)	4079 (0.063 pts/cycle)
ifft_cplx24x24	N=16, scaling=3	232 (0.069 pts/cycle)	240 (0.067 pts/cycle)	240 (0.067 pts/cycle)
ifft_cplx24x24	N=32, scaling=3	475 (0.067 pts/cycle)	516 (0.062 pts/cycle)	516 (0.062 pts/cycle)
ifft_cplx24x24	N=64, scaling=3	840 (0.076 pts/cycle)	896 (0.071 pts/cycle)	896 (0.071 pts/cycle)
ifft_cplx24x24	N=128, scaling=3	2065 (0.062 pts/cycle)	2292 (0.056 pts/cycle)	2292 (0.056 pts/cycle)
ifft_cplx24x24	N=256, scaling=3	4006 (0.064 pts/cycle)	4364 (0.059 pts/cycle)	4364 (0.059 pts/cycle)
ifft_cplx24x24	N=512, scaling=1	14580 (0.035 pts/cycle)	15290 (0.033 pts/cycle)	15290 (0.033 pts/cycle)
ifft_cplx24x24	N=1024, scaling=2	29634 (0.035 pts/cycle)	30213 (0.034 pts/cycle)	30213 (0.034 pts/cycle)
ifft_cplx24x24	N=2048, scaling=3	47433 (0.043 pts/cycle)	53352 (0.038 pts/cycle)	53352 (0.038 pts/cycle)
ifft_cplx24x24	N=4096, scaling=0	86496 (0.047 pts/cycle)	98542 (0.042 pts/cycle)	98542 (0.042 pts/cycle)
ifft_cplx32x16	N=16	194 (0.082 pts/cycle)	194 (0.082 pts/cycle)	196 (0.082 pts/cycle)
ifft_cplx32x16	N=32	421 (0.076 pts/cycle)	421 (0.076 pts/cycle)	426 (0.075 pts/cycle)
ifft_cplx32x16	N=64	798 (0.080 pts/cycle)	798 (0.080 pts/cycle)	801 (0.080 pts/cycle)



Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
ifft_cplx32x16	N=128	1974 (0.065 pts/cycle)	1974 (0.065 pts/cycle)	1990 (0.064 pts/cycle)
ifft_cplx32x16	N=256	4007 (0.064 pts/cycle)	4007 (0.064 pts/cycle)	4009 (0.064 pts/cycle)
ifft_cplx32x16	N=512	9753 (0.052 pts/cycle)	9753 (0.052 pts/cycle)	9817 (0.052 pts/cycle)
ifft_cplx32x16	N=1024	20066 (0.051 pts/cycle)	20066 (0.051 pts/cycle)	20068 (0.051 pts/cycle)
ifft_cplx32x16	N=2048	47412 (0.043 pts/cycle)	47412 (0.043 pts/cycle)	47668 (0.043 pts/cycle)
ifft_cplx32x16	N=4096	97469 (0.042 pts/cycle)	97469 (0.042 pts/cycle)	97471 (0.042 pts/cycle)
ifft_cplx32x32	N=16	179 (0.089 pts/cycle)	179 (0.089 pts/cycle)	179 (0.089 pts/cycle)
ifft_cplx32x32	N=32	586 (0.055 pts/cycle)	586 (0.055 pts/cycle)	586 (0.055 pts/cycle)
ifft_cplx32x32	N=64	1042 (0.061 pts/cycle)	1042 (0.061 pts/cycle)	1042 (0.061 pts/cycle)
ifft_cplx32x32	N=128	2838 (0.045 pts/cycle)	2838 (0.045 pts/cycle)	2838 (0.045 pts/cycle)
ifft_cplx32x32	N=256	5467 (0.047 pts/cycle)	5467 (0.047 pts/cycle)	5467 (0.047 pts/cycle)
ifft_cplx32x32	N=512	14004 (0.037 pts/cycle)	14004 (0.037 pts/cycle)	14004 (0.037 pts/cycle)
ifft_cplx32x32	N=1024	27710 (0.037 pts/cycle)	27710 (0.037 pts/cycle)	27710 (0.037 pts/cycle)
ifft_cplx32x32	N=2048	67996 (0.030 pts/cycle)	67996 (0.030 pts/cycle)	67996 (0.030 pts/cycle)
ifft_cplx32x32	N=4096	135595 (0.030 pts/cycle)	135595 (0.030 pts/cycle)	135595 (0.030 pts/cycle)
Fixed point real FFT:				
fft_real16x16	N=32	270 (0.119 pts/cycle)	270 (0.119 pts/cycle)	345 (0.093 pts/cycle)
fft_real16x16	N=64	527 (0.121 pts/cycle)	527 (0.121 pts/cycle)	641 (0.100 pts/cycle)
fft_real16x16	N=128	815 (0.157 pts/cycle)	815 (0.157 pts/cycle)	1226 (0.104 pts/cycle)
fft_real16x16	N=256	1665 (0.154 pts/cycle)	1665 (0.154 pts/cycle)	2585 (0.099 pts/cycle)
fft_real16x16	N=512	3077 (0.166 pts/cycle)	3077 (0.166 pts/cycle)	5288 (0.097 pts/cycle)
fft_real16x16	N=1024	6901 (0.148 pts/cycle)	6901 (0.148 pts/cycle)	11555 (0.089 pts/cycle)
fft_real16x16	N=2048	13401 (0.153 pts/cycle)	13401 (0.153 pts/cycle)	24002 (0.085 pts/cycle)
fft_real16x16	N=4096	29915 (0.137 pts/cycle)	29915 (0.137 pts/cycle)	52493 (0.078 pts/cycle)
fft_real24x24	N=512, scaling=0	5209 (0.098 pts/cycle)	5805 (0.088 pts/cycle)	5805 (0.088 pts/cycle)
fft_real24x24	N=512, scaling=1	8261 (0.062 pts/cycle)	8546 (0.060 pts/cycle)	8546 (0.060 pts/cycle)
fft_real24x24	N=512, scaling=2	9030 (0.057 pts/cycle)	9316 (0.055 pts/cycle)	10086 (0.051 pts/cycle)
fft_real24x24	N=512, scaling=3	6922 (0.074 pts/cycle)	7406 (0.069 pts/cycle)	7406 (0.069 pts/cycle)
fft_real24x24	N=32, scaling=0	368 (0.087 pts/cycle)	385 (0.083 pts/cycle)	385 (0.083 pts/cycle)
fft_real24x24	N=64, scaling=0	683 (0.094 pts/cycle)	754 (0.085 pts/cycle)	754 (0.085 pts/cycle)
fft_real24x24	N=128, scaling=0	1201 (0.107 pts/cycle)	1313 (0.097 pts/cycle)	1313 (0.097 pts/cycle)
fft_real24x24	N=256, scaling=0	2679 (0.096 pts/cycle)	3054 (0.084 pts/cycle)	3054 (0.084 pts/cycle)
fft_real24x24	N=32, scaling=3	508 (0.063 pts/cycle)	522 (0.061 pts/cycle)	522 (0.061 pts/cycle)
fft_real24x24	N=64, scaling=3	927 (0.069 pts/cycle)	982 (0.065 pts/cycle)	982 (0.065 pts/cycle)
fft_real24x24	N=128, scaling=3	1644 (0.078 pts/cycle)	1730 (0.074 pts/cycle)	1730 (0.074 pts/cycle)
fft_real24x24	N=256, scaling=3	3573 (0.072 pts/cycle)	3862 (0.066 pts/cycle)	3862 (0.066 pts/cycle)
fft_real24x24	N=512, scaling=1	8261 (0.062 pts/cycle)	8546 (0.060 pts/cycle)	8546 (0.060 pts/cycle)
fft_real24x24	N=1024, scaling=2	21851 (0.047 pts/cycle)	22815 (0.045 pts/cycle)	21277 (0.048 pts/cycle)
fft_real24x24	N=2048, scaling=3	31074 (0.066 pts/cycle)	33596 (0.061 pts/cycle)	33596 (0.061 pts/cycle)
fft_real24x24	N=4096, scaling=0	55191 (0.074 pts/cycle)	63518 (0.064 pts/cycle)	63518 (0.064 pts/cycle)
fft_real24x24	N=1024, scaling=3	15637 (0.065 pts/cycle)	17068 (0.060 pts/cycle)	17068 (0.060 pts/cycle)
fft_real32x16	N=32	358 (0.089 pts/cycle)	358 (0.089 pts/cycle)	359 (0.089 pts/cycle)
fft_real32x16	N=64	694 (0.092 pts/cycle)	694 (0.092 pts/cycle)	698 (0.092 pts/cycle)
fft_real32x16	N=128	1279 (0.100 pts/cycle)	1279 (0.100 pts/cycle)	1281 (0.100 pts/cycle)
fft_real32x16	N=256	2871 (0.089 pts/cycle)	2871 (0.089 pts/cycle)	2886 (0.089 pts/cycle)
fft_real32x16	N=512	5736 (0.089 pts/cycle)	5736 (0.089 pts/cycle)	5737 (0.089 pts/cycle)
fft_real32x16	N=1024	13146 (0.078 pts/cycle)	13146 (0.078 pts/cycle)	13209 (0.078 pts/cycle)
fft_real32x16	N=2048	26787 (0.076 pts/cycle)	26787 (0.076 pts/cycle)	26788 (0.076 pts/cycle)
fft_real32x16	N=4096	60789 (0.067 pts/cycle)	60789 (0.067 pts/cycle)	61044 (0.067 pts/cycle)
fft_real32x32	N=32	324 (0.099 pts/cycle)	324 (0.099 pts/cycle)	324 (0.099 pts/cycle)
fft_real32x32	N=64	885 (0.072 pts/cycle)	885 (0.072 pts/cycle)	885 (0.072 pts/cycle)
fft_real32x32	N=128	1581 (0.081 pts/cycle)	1581 (0.081 pts/cycle)	1581 (0.081 pts/cycle)
fft_real32x32	N=256	3857 (0.066 pts/cycle)	3857 (0.066 pts/cycle)	3857 (0.066 pts/cycle)
fft_real32x32	N=512	7446 (0.069 pts/cycle)	7446 (0.069 pts/cycle)	7446 (0.069 pts/cycle)
fft_real32x32	N=1024	17903 (0.057 pts/cycle)	17903 (0.057 pts/cycle)	17903 (0.057 pts/cycle)
fft_real32x32	N=2048	35449 (0.058 pts/cycle)	35449 (0.058 pts/cycle)	35449 (0.058 pts/cycle)
fft_real32x32	N=4096	83415 (0.049 pts/cycle)	83415 (0.049 pts/cycle)	83415 (0.049 pts/cycle)
ifft_real16x16	N=32	284 (0.113 pts/cycle)	284 (0.113 pts/cycle)	358 (0.089 pts/cycle)
ifft_real16x16	N=64	553 (0.116 pts/cycle)	553 (0.116 pts/cycle)	677 (0.095 pts/cycle)
ifft_real16x16	N=128	865 (0.148 pts/cycle)	865 (0.148 pts/cycle)	1306 (0.098 pts/cycle)
ifft_real16x16	N=256	1763 (0.145 pts/cycle)	1763 (0.145 pts/cycle)	2770 (0.092 pts/cycle)
ifft_real16x16	N=512	3271 (0.157 pts/cycle)	3271 (0.157 pts/cycle)	5759 (0.089 pts/cycle)
ifft_real16x16	N=1024	7287 (0.141 pts/cycle)	7287 (0.141 pts/cycle)	12579 (0.081 pts/cycle)
ifft_real16x16	N=2048	14171 (0.145 pts/cycle)	14171 (0.145 pts/cycle)	26544 (0.077 pts/cycle)
ifft_real16x16	N=4096	31453 (0.130 pts/cycle)	31453 (0.130 pts/cycle)	57860 (0.071 pts/cycle)
ifft_real24x24	N=512, scaling=0	5336 (0.096 pts/cycle)	5932 (0.086 pts/cycle)	5932 (0.086 pts/cycle)
ifft_real24x24	N=512, scaling=1	9167 (0.056 pts/cycle)	9452 (0.054 pts/cycle)	9452 (0.054 pts/cycle)
ifft_real24x24	N=512, scaling=2	9165 (0.056 pts/cycle)	9450 (0.054 pts/cycle)	8680 (0.059 pts/cycle)
ifft_real24x24	N=512, scaling=3	5743 (0.089 pts/cycle)	6227 (0.082 pts/cycle)	6227 (0.082 pts/cycle)
ifft_real24x24	N=32, scaling=0	375 (0.085 pts/cycle)	392 (0.082 pts/cycle)	392 (0.082 pts/cycle)
ifft_real24x24	N=64, scaling=0	699 (0.092 pts/cycle)	770 (0.083 pts/cycle)	770 (0.083 pts/cycle)
ifft_real24x24	N=128, scaling=0	1232 (0.104 pts/cycle)	1344 (0.095 pts/cycle)	1344 (0.095 pts/cycle)
ifft_real24x24	N=256, scaling=0	2743 (0.093 pts/cycle)	3118 (0.082 pts/cycle)	3118 (0.082 pts/cycle)
ifft_real24x24	N=32, scaling=3	408 (0.078 pts/cycle)	422 (0.076 pts/cycle)	422 (0.076 pts/cycle)
ifft_real24x24	N=64, scaling=3	756 (0.085 pts/cycle)	811 (0.079 pts/cycle)	811 (0.079 pts/cycle)
ifft_real24x24	N=128, scaling=3	1329 (0.096 pts/cycle)	1415 (0.090 pts/cycle)	1415 (0.090 pts/cycle)
ifft_real24x24	N=256, scaling=3	2970 (0.086 pts/cycle)	3259 (0.079 pts/cycle)	3259 (0.079 pts/cycle)
ifft_real24x24	N=512, scaling=1	9168 (0.056 pts/cycle)	9453 (0.054 pts/cycle)	8683 (0.059 pts/cycle)
ifft_real24x24	N=1024, scaling=2	20577 (0.050 pts/cycle)	21540 (0.048 pts/cycle)	21540 (0.048 pts/cycle)
ifft_real24x24	N=2048, scaling=3	26439 (0.077 pts/cycle)	28961 (0.071 pts/cycle)	28961 (0.071 pts/cycle)
ifft_real24x24	N=4096, scaling=0	56215 (0.073 pts/cycle)	64542 (0.063 pts/cycle)	64542 (0.063 pts/cycle)
ifft_real24x24	N=1024, scaling=3	13305 (0.077 pts/cycle)	14736 (0.069 pts/cycle)	14736 (0.069 pts/cycle)
ifft_real32x16	N=32	371 (0.086 pts/cycle)	371 (0.086 pts/cycle)	371 (0.086 pts/cycle)
ifft_real32x16	N=64	715 (0.090 pts/cycle)	715 (0.089 pts/cycle)	724 (0.089 pts/cycle)
ifft_real32x16	N=128	1316 (0.097 pts/cycle)	1316 (0.097 pts/cycle)	1320 (0.097 pts/cycle)
ifft_real32x16	N=256	2940 (0.087 pts/cycle)	2940 (0.087 pts/cycle)	2957 (0.087 pts/cycle)
ifft_real32x16	N=512	5869 (0.087 pts/cycle)	5869 (0.087 pts/cycle)	5872 (0.087 pts/cycle)
ifft_real32x16	N=1024	13407 (0.076 pts/cycle)	13407 (0.076 pts/cycle)	13472 (0.076 pts/cycle)
ifft_real32x16	N=2048	27304 (0.075 pts/cycle)	27304 (0.075 pts/cycle)	27307 (0.075 pts/cycle)
ifft_real32x16	N=4096	61817 (0.066 pts/cycle)	61817 (0.066 pts/cycle)	62074 (0.066 pts/cycle)
ifft_real32x32	N=32	335 (0.096 pts/cycle)	335 (0.096 pts/cycle)	335 (0.096 pts/cycle)
ifft_real32x32	N=64	904 (0.071 pts/cycle)	904 (0.071 pts/cycle)	904 (0.071 pts/cycle)
ifft_real32x32	N=128	1616 (0.079 pts/cycle)	1616 (0.079 pts/cycle)	1616 (0.079 pts/cycle)
ifft_real32x32	N=256	3924 (0.065 pts/cycle)	3924 (0.065 pts/cycle)	3924 (0.065 pts/cycle)
ifft_real32x32	N=512	7577 (0.068 pts/cycle)	7577 (0.068 pts/cycle)	7577 (0.068 pts/cycle)
ifft_real32x32	N=1024	18162 (0.056 pts/cycle)	18162 (0.056 pts/cycle)	18162 (0.056 pts/cycle)
ifft_real32x32	N=2048	35964 (0.057 pts/cycle)	35964 (0.057 pts/cycle)	35964 (0.057 pts/cycle)
ifft_real32x32	N=4096	84441 (0.049 pts/cycle)	84441 (0.049 pts/cycle)	84441 (0.049 pts/cycle)
DCT:				
dct_16x16	N=32, scalingOpt=3	319 (cycles)	319 (cycles)	420 (cycles)

Function name	Invocation parameters	Cycle count		
		AVS/FP/ 16-bit Quad MAC	NO AVS/FP/ 16-bit Quad MAC	NO AVS / FPU/ NO 16-bit Quad MAC16
dct_24x24	N=32, scalingOpt=3	335 (cycles)	363 (cycles)	363 (cycles)
dct_32x16	N=32, scalingOpt=3	301 (cycles)	301 (cycles)	301 (cycles)
dct_32x32	N=32, scalingOpt=3	443 (cycles)	446 (cycles)	446 (cycles)
dcdf	N=32	502 (cycles)	502 (cycles)	502 (cycles)
dcdf	N=64	1273 (cycles)	1273 (cycles)	1273 (cycles)
Complex FFT with memory improved usage:				
fft_cplx32x16_ie	N=256	4259 (0.060 pts/cycle)	4259 (0.060 pts/cycle)	4260 (0.060 pts/cycle)
fft_cplx32x16_ie	N=512	10559 (0.048 pts/cycle)	10559 (0.048 pts/cycle)	10559 (0.048 pts/cycle)
fft_cplx32x16_ie	N=1024	20931 (0.049 pts/cycle)	20931 (0.049 pts/cycle)	20932 (0.049 pts/cycle)
fft_cplx24x24_ie	N=256	4254 (0.060 pts/cycle)	4446 (0.058 pts/cycle)	4447 (0.058 pts/cycle)
fft_cplx24x24_ie	N=512	10553 (0.049 pts/cycle)	11065 (0.046 pts/cycle)	11065 (0.046 pts/cycle)
fft_cplx24x24_ie	N=1024	20925 (0.049 pts/cycle)	21949 (0.047 pts/cycle)	21950 (0.047 pts/cycle)
ifft_cplx32x16_ie	N=256	4830 (0.053 pts/cycle)	4830 (0.053 pts/cycle)	4831 (0.053 pts/cycle)
ifft_cplx32x16_ie	N=512	11642 (0.044 pts/cycle)	11642 (0.044 pts/cycle)	11642 (0.044 pts/cycle)
ifft_cplx32x16_ie	N=1024	23038 (0.044 pts/cycle)	23038 (0.044 pts/cycle)	23039 (0.044 pts/cycle)
ifft_cplx24x24_ie	N=256	4825 (0.053 pts/cycle)	5017 (0.051 pts/cycle)	5018 (0.051 pts/cycle)
ifft_cplx24x24_ie	N=512	11636 (0.044 pts/cycle)	12148 (0.042 pts/cycle)	12148 (0.042 pts/cycle)
ifft_cplx24x24_ie	N=1024	23032 (0.044 pts/cycle)	24056 (0.043 pts/cycle)	24057 (0.043 pts/cycle)
fft_cplx1f_ie	N=8	152 (0.053 pts/cycle)	152 (0.053 pts/cycle)	152 (0.053 pts/cycle)
fft_cplx1f_ie	N=16	245 (0.065 pts/cycle)	245 (0.065 pts/cycle)	245 (0.065 pts/cycle)
fft_cplx1f_ie	N=32	778 (0.041 pts/cycle)	778 (0.041 pts/cycle)	778 (0.041 pts/cycle)
fft_cplx1f_ie	N=64	1389 (0.046 pts/cycle)	1389 (0.046 pts/cycle)	1389 (0.046 pts/cycle)
fft_cplx1f_ie	N=128	3960 (0.032 pts/cycle)	3960 (0.032 pts/cycle)	3960 (0.032 pts/cycle)
fft_cplx1f_ie	N=256	7336 (0.035 pts/cycle)	7336 (0.035 pts/cycle)	7336 (0.035 pts/cycle)
fft_cplx1f_ie	N=512	19444 (0.026 pts/cycle)	19444 (0.026 pts/cycle)	19444 (0.026 pts/cycle)
fft_cplx1f_ie	N=1024	36658 (0.028 pts/cycle)	36658 (0.028 pts/cycle)	36658 (0.028 pts/cycle)
fft_cplx1f_ie	N=2048	92479 (0.022 pts/cycle)	92479 (0.022 pts/cycle)	92479 (0.022 pts/cycle)
fft_cplx1f_ie	N=4096	176190 (0.023 pts/cycle)	176190 (0.023 pts/cycle)	176190 (0.023 pts/cycle)
ifft_cplx1f_ie	N=8	145 (0.055 pts/cycle)	145 (0.055 pts/cycle)	145 (0.055 pts/cycle)
ifft_cplx1f_ie	N=16	263 (0.061 pts/cycle)	263 (0.061 pts/cycle)	263 (0.061 pts/cycle)
ifft_cplx1f_ie	N=32	739 (0.043 pts/cycle)	739 (0.043 pts/cycle)	739 (0.043 pts/cycle)
ifft_cplx1f_ie	N=64	1458 (0.044 pts/cycle)	1458 (0.044 pts/cycle)	1458 (0.044 pts/cycle)
ifft_cplx1f_ie	N=128	3794 (0.034 pts/cycle)	3794 (0.034 pts/cycle)	3794 (0.034 pts/cycle)
ifft_cplx1f_ie	N=256	7613 (0.034 pts/cycle)	7613 (0.034 pts/cycle)	7613 (0.034 pts/cycle)
ifft_cplx1f_ie	N=512	18765 (0.027 pts/cycle)	18765 (0.027 pts/cycle)	18765 (0.027 pts/cycle)
ifft_cplx1f_ie	N=1024	37768 (0.027 pts/cycle)	37768 (0.027 pts/cycle)	37768 (0.027 pts/cycle)
ifft_cplx1f_ie	N=2048	89752 (0.023 pts/cycle)	89752 (0.023 pts/cycle)	89752 (0.023 pts/cycle)
ifft_cplx1f_ie	N=4096	180627 (0.023 pts/cycle)	180627 (0.023 pts/cycle)	180627 (0.023 pts/cycle)
Real FFT with memory improved usage:				
fft_real32x16_ie	N=256	3163 (0.081 pts/cycle)	3163 (0.081 pts/cycle)	3163 (0.081 pts/cycle)
fft_real32x16_ie	N=512	6111 (0.084 pts/cycle)	6111 (0.084 pts/cycle)	6112 (0.084 pts/cycle)
fft_real32x16_ie	N=1024	14203 (0.072 pts/cycle)	14203 (0.072 pts/cycle)	14203 (0.072 pts/cycle)
fft_real32x16_ie_24p	N=256	4014 (0.064 pts/cycle)	4014 (0.064 pts/cycle)	4014 (0.064 pts/cycle)
fft_real32x16_ie_24p	N=512	7730 (0.066 pts/cycle)	7730 (0.066 pts/cycle)	7731 (0.066 pts/cycle)
fft_real32x16_ie_24p	N=1024	17358 (0.059 pts/cycle)	17358 (0.059 pts/cycle)	17358 (0.059 pts/cycle)
fft_real24x24_ie	N=256	3093 (0.083 pts/cycle)	3254 (0.079 pts/cycle)	3254 (0.079 pts/cycle)
fft_real24x24_ie	N=512	5977 (0.086 pts/cycle)	6298 (0.081 pts/cycle)	6299 (0.081 pts/cycle)
fft_real24x24_ie	N=1024	13940 (0.073 pts/cycle)	14709 (0.070 pts/cycle)	14709 (0.070 pts/cycle)
fft_real24x24_ie_24p	N=256	4402 (0.058 pts/cycle)	4755 (0.054 pts/cycle)	4755 (0.054 pts/cycle)
fft_real24x24_ie_24p	N=512	8533 (0.060 pts/cycle)	9238 (0.055 pts/cycle)	9238 (0.055 pts/cycle)
fft_real24x24_ie_24p	N=1024	19639 (0.052 pts/cycle)	21432 (0.048 pts/cycle)	21432 (0.048 pts/cycle)
ifft_real32x16_ie	N=256	3543 (0.072 pts/cycle)	3543 (0.072 pts/cycle)	3543 (0.072 pts/cycle)
ifft_real32x16_ie	N=512	6811 (0.075 pts/cycle)	6811 (0.075 pts/cycle)	6812 (0.075 pts/cycle)
ifft_real32x16_ie	N=1024	15543 (0.066 pts/cycle)	15543 (0.066 pts/cycle)	15543 (0.066 pts/cycle)
ifft_real32x16_ie_24p	N=256	4394 (0.058 pts/cycle)	4394 (0.058 pts/cycle)	4394 (0.058 pts/cycle)
ifft_real32x16_ie_24p	N=512	8430 (0.061 pts/cycle)	8430 (0.061 pts/cycle)	8431 (0.061 pts/cycle)
ifft_real32x16_ie_24p	N=1024	18698 (0.055 pts/cycle)	18698 (0.055 pts/cycle)	18698 (0.055 pts/cycle)
ifft_real24x24_ie	N=256	3474 (0.074 pts/cycle)	3635 (0.070 pts/cycle)	3635 (0.070 pts/cycle)
ifft_real24x24_ie	N=512	6678 (0.077 pts/cycle)	6999 (0.073 pts/cycle)	7000 (0.073 pts/cycle)
ifft_real24x24_ie	N=1024	15281 (0.067 pts/cycle)	16050 (0.064 pts/cycle)	16050 (0.064 pts/cycle)
ifft_real24x24_ie_24p	N=256	4817 (0.053 pts/cycle)	5164 (0.050 pts/cycle)	5164 (0.050 pts/cycle)
ifft_real24x24_ie_24p	N=512	9332 (0.055 pts/cycle)	10031 (0.051 pts/cycle)	10031 (0.051 pts/cycle)
ifft_real24x24_ie_24p	N=1024	21206 (0.048 pts/cycle)	22993 (0.045 pts/cycle)	22993 (0.045 pts/cycle)
fft_real1f_ie	N=8	75 (0.107 pts/cycle)	75 (0.107 pts/cycle)	75 (0.107 pts/cycle)
fft_real1f_ie	N=16	237 (0.068 pts/cycle)	237 (0.068 pts/cycle)	237 (0.068 pts/cycle)
fft_real1f_ie	N=32	402 (0.080 pts/cycle)	402 (0.080 pts/cycle)	402 (0.080 pts/cycle)
fft_real1f_ie	N=64	1078 (0.059 pts/cycle)	1078 (0.059 pts/cycle)	1078 (0.059 pts/cycle)
fft_real1f_ie	N=128	1978 (0.065 pts/cycle)	1978 (0.065 pts/cycle)	1978 (0.065 pts/cycle)
fft_real1f_ie	N=256	5125 (0.050 pts/cycle)	5125 (0.050 pts/cycle)	5125 (0.050 pts/cycle)
fft_real1f_ie	N=512	9652 (0.053 pts/cycle)	9652 (0.053 pts/cycle)	9652 (0.053 pts/cycle)
fft_real1f_ie	N=1024	24065 (0.043 pts/cycle)	24065 (0.043 pts/cycle)	24065 (0.043 pts/cycle)
fft_real1f_ie	N=2048	45887 (0.045 pts/cycle)	45887 (0.045 pts/cycle)	45887 (0.045 pts/cycle)
fft_real1f_ie	N=4096	110923 (0.037 pts/cycle)	110923 (0.037 pts/cycle)	110923 (0.037 pts/cycle)
ifft_real1f_ie	N=8	82 (0.098 pts/cycle)	82 (0.098 pts/cycle)	82 (0.098 pts/cycle)
ifft_real1f_ie	N=16	230 (0.070 pts/cycle)	230 (0.070 pts/cycle)	230 (0.070 pts/cycle)
ifft_real1f_ie	N=32	420 (0.076 pts/cycle)	420 (0.076 pts/cycle)	420 (0.076 pts/cycle)
ifft_real1f_ie	N=64	1040 (0.062 pts/cycle)	1040 (0.062 pts/cycle)	1040 (0.062 pts/cycle)
ifft_real1f_ie	N=128	2047 (0.063 pts/cycle)	2047 (0.063 pts/cycle)	2047 (0.063 pts/cycle)
ifft_real1f_ie	N=256	4959 (0.052 pts/cycle)	4959 (0.052 pts/cycle)	4959 (0.052 pts/cycle)
ifft_real1f_ie	N=512	9930 (0.052 pts/cycle)	9930 (0.052 pts/cycle)	9930 (0.052 pts/cycle)
ifft_real1f_ie	N=1024	23386 (0.044 pts/cycle)	23386 (0.044 pts/cycle)	23386 (0.044 pts/cycle)
ifft_real1f_ie	N=2048	46997 (0.044 pts/cycle)	46997 (0.044 pts/cycle)	46997 (0.044 pts/cycle)
ifft_real1f_ie	N=4096	108197 (0.038 pts/cycle)	108197 (0.038 pts/cycle)	108197 (0.038 pts/cycle)

## 1.2 Functions Code and Data Size

Detailed code/data size information might be taken by `xt-size` and `xt-nm` utilities from Cadence toolchain. The spreadsheet below summarizes that information in a one table for `FusionIT_q16_fpu_avs` configuration.

Most modules are located in a one file and are not referencing to other modules, so code/data size for such modules is defined by number from the second column. However, some modules (i.e. ffts) may share common data/functions. So, they are referenced to another modules and total code/data size usage will be defined by the sum of corresponding cells from the second column.



Object file	Code size	Data size	Symbols	
			Global	Referenced
alog10f tbl.o		12	NatureDSP Signal 206, NatureDSP Signal 207	
alog2f tbl.o		8	NatureDSP Signal 208	
asinf tbl.o		20	NatureDSP Signal 295	
atanf tbl.o		64	NatureDSP Signal 209, NatureDSP Signal 210	
alog10f tbl.o		12	NatureDSP Signal 206, NatureDSP Signal 207	
bkfir16x16 fusion.o	608		bkfir16x16_alloc, bkfir16x16_init, bkfir16x16_process	
bkfir24x24 fusion.o	347		bkfir24x24_alloc, bkfir24x24_init, bkfir24x24_process	
bkfir24x24p fusion.o	391		bkfir24x24p_alloc, bkfir24x24p_init, bkfir24x24p_process	
bkfir32x16 fusion.o	355		bkfir32x16_alloc, bkfir32x16_init, bkfir32x16_process	
bkfir32x32 fusion.o	510		bkfir32x32_alloc, bkfir32x32_init, bkfir32x32_process	
bkfira16x16 fusion.o	776		bkfira16x16_alloc, bkfira16x16_init, bkfira16x16_process	
bkfira24x24 fusion.o	631		bkfira24x24_alloc, bkfira24x24_init, bkfira24x24_process	
bkfira32x16 fusion.o	688		bkfira32x16_alloc, bkfira32x16_init, bkfira32x16_process	
bkfira32x32 fusion.o	991		bkfira32x32_alloc, bkfira32x32_init, bkfira32x32_process	
bkfiraf fusion.o	169		bkfiraf_alloc, bkfiraf_init	
bkfiraf process fusion.o	398		bkfiraf_process	
bkfirf fusion.o	117		bkfirf_alloc, bkfirf_init	
bkfirf process fusion.o	291		bkfirf_process	
cxfir convol32x16 fusion.o	125		cxfir_conv32x16	
cxfir convola32x16 fusion.o	325		cxfir_convola32x16	
cxfir xcorraf fusion.o	272		cxfir_xcorraf	
cxfir xcorrff fusion.o	188		cxfir_xcorrff	
cxfir16x16 fusion.o	460		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir24x24 fusion.o	629		cxfir24x24_alloc, cxfir24x24_init, cxfir24x24_process	
cxfir32x16 fusion.o	604		cxfir32x16_alloc, cxfir32x16_init, cxfir32x16_process	
cxfir32x32 fusion.o	541		cxfir32x32_alloc, cxfir32x32_init, cxfir32x32_process	
cxfirf fusion.o	80		cxfirf_alloc, cxfirf_init	
cxfirf process fusion.o	246		cxfirf_process	
cxfirinterp16x16 fusion.o	358		cxfirinterp16x16_alloc, cxfirinterp16x16_init, cxfirinterp16x16_process	NatureDSP_Signal_320, NatureDSP_Signal_321, NatureDSP_Signal_322, NatureDSP_Signal_323
cxfirinterp16x16 D2 fusion.o	852		NatureDSP Signal 320	
cxfirinterp16x16 D3 fusion.o	1061		NatureDSP Signal 321	
cxfirinterp16x16 D4 fusion.o	852		NatureDSP Signal 322	
cxfirinterp16x16 DX fusion.o	974		NatureDSP Signal 323	
bq3iir16x16 df1 fusion.o	851		bq3iir16x16_df1, bq3iir16x16_df1_alloc, bq3iir16x16_df1_init	
bq3iir16x16 df2 fusion.o	654		bq3iir16x16_df2, bq3iir16x16_df2_alloc, bq3iir16x16_df2_init	
bq3iir32x16 df1 fusion.o	954		bq3iir32x16_df1, bq3iir32x16_df1_alloc, bq3iir32x16_df1_init	
bq3iir32x16 df2 fusion.o	658		bq3iir32x16_df2, bq3iir32x16_df2_alloc, bq3iir32x16_df2_init	
bq3iir32x32 df1 fusion.o	636		bq3iir32x32_df1, bq3iir32x32_df1_alloc, bq3iir32x32_df1_init	
bq3iir32x32 df2 fusion.o	679		bq3iir32x32_df2, bq3iir32x32_df2_alloc, bq3iir32x32_df2_init	
bq3iirf df1 fusion.o	135		bq3iirf_df1_alloc, bq3iirf_df1_init	
bq3iirf df1 process fusion.o	830		bq3iirf_df1	
bq3iirf df2 fusion.o	128		bq3iirf_df2_alloc, bq3iirf_df2_init	
bq3iirf df2 process fusion.o	515		bq3iirf_df2	
bqciirf df1 fusion.o	131		bqciirf_df1_alloc, bqciirf_df1_init	
bqciirf df1 process fusion.o	743		bqciirf_df1	
bqriir16x16 df1 fusion.o	867		bqriir16x16_df1, bqriir16x16_df1_alloc, bqriir16x16_df1_init	
bqriir16x16 df2 fusion.o	621		bqriir16x16_df2, bqriir16x16_df2_alloc, bqriir16x16_df2_init	
bqriir24x24 df1 fusion.o	818		bqriir24x24_df1, bqriir24x24_df1_alloc, bqriir24x24_df1_init	
bqriir24x24 df2 fusion.o	716		bqriir24x24_df2, bqriir24x24_df2_alloc, bqriir24x24_df2_init	
bqriir32x16 df1 fusion.o	754		bqriir32x16_df1, bqriir32x16_df1_alloc, bqriir32x16_df1_init	
bqriir32x16 df2 fusion.o	713		bqriir32x16_df2, bqriir32x16_df2_alloc, bqriir32x16_df2_init	
bqriir32x32 df1 fusion.o	567		bqriir32x32_df1, bqriir32x32_df1_alloc, bqriir32x32_df1_init	
bqriir32x32 df2 fusion.o	740		bqriir32x32_df2, bqriir32x32_df2_alloc, bqriir32x32_df2_init	
bqriirf df1 fusion.o	129		bqriirf_df1_alloc, bqriirf_df1_init	
bqriirf df1 process fusion.o	720		bqriirf_df1	
bqriirf df2 fusion.o	123		bqriirf_df2_alloc, bqriirf_df2_init	
bqriirf df2 process fusion.o	472		bqriirf_df2	
bqriirf df2t fusion.o	123		bqriirf_df2t_alloc, bqriirf_df2t_init	
bqriirf df2t process fusion.o	806		bqriirf_df2t	
cmtx add2x2 16x16 fusion.o	22		cmtx_add2x2_16x16	vec add16x16
cmtx add2x2 32x32 fusion.o	22		cmtx_add2x2_32x32	vec add32x32 fast
cmtx add2x2f fusion.o	22		cmtx_add2x2f	vec addf
cmtx add3x3 16x16 fusion.o	26		cmtx_add3x3_16x16	vec add16x16
cmtx add3x3 32x32 fusion.o	26		cmtx_add3x3_32x32	vec add32x32 fast
cmtx add3x3f fusion.o	26		cmtx_add3x3f	vec addf
cmtx add4x4 16x16 fusion.o	22		cmtx_add4x4_16x16	vec add16x16
cmtx add4x4 32x32 fusion.o	22		cmtx_add4x4_32x32	vec add32x32 fast
cmtx add4x4f fusion.o	22		cmtx_add4x4f	vec addf
cmtx det2x2 16x16 fusion.o	290		cmtx_det2x2_16x16	
cmtx det2x2 32x32 fusion.o	133		cmtx_det2x2_32x32	
cmtx det2x2f fusion.o	293		cmtx_det2x2f	
cmtx det3x3 16x16 fusion.o	802		cmtx_det3x3_16x16	divsi3
cmtx det3x3 32x32 fusion.o	532		cmtx_det3x3_32x32	
cmtx det3x3f fusion.o	754		cmtx_det3x3f	divsi3
cmtx det4x4 16x16 fusion.o	1415		cmtx_det4x4_16x16	divsi3
cmtx det4x4 32x32 fusion.o	914		cmtx_det4x4_32x32	cmtx_det3x3_32x32
cmtx det4x4f fusion.o	731		cmtx_det4x4f	
cmtx inv2x2f fusion.o	199		cmtx_inv2x2f	
cmtx inv3x3f fusion.o	541		cmtx_inv3x3f	
cmtx inv4x4f fusion.o	570		cmtx_inv4x4f	
cmtx mul2x2 16x16 fusion.o	317		cmtx_mul2x2_16x16	
cmtx mul2x2 32x32 fusion.o	246		cmtx_mul2x2_32x32	
cmtx mul2x2f fusion.o	442		cmtx_mul2x2f	
cmtx mul3x3 16x16 fusion.o	405		cmtx_mul3x3_16x16	
cmtx mul3x3 32x32 fusion.o	605		cmtx_mul3x3_32x32	
cmtx mul3x3f fusion.o	867		cmtx_mul3x3f	
cmtx mul4x4 16x16 fusion.o	327		cmtx_mul4x4_16x16	
cmtx mul4x4 32x32 fusion.o	314		cmtx_mul4x4_32x32	
cmtx mul4x4f fusion.o	351		cmtx_mul4x4f	

Object file	Code size	Data size	Symbols	
			Global	Referenced
cmtx_sub2x2_16x16_fusion.o	22		cmtx_sub2x2_16x16	NatureDSP_Signal_298
cmtx_sub2x2_32x32_fusion.o	22		cmtx_sub2x2_32x32	NatureDSP_Signal_299
cmtx_sub2x2f_fusion.o	22		cmtx_sub2x2f	NatureDSP_Signal_300
cmtx_sub3x3_16x16_fusion.o	26		cmtx_sub3x3_16x16	NatureDSP_Signal_298
cmtx_sub3x3_32x32_fusion.o	26		cmtx_sub3x3_32x32	NatureDSP_Signal_299
cmtx_sub3x3f_fusion.o	26		cmtx_sub3x3f	NatureDSP_Signal_300
cmtx_sub4x4_16x16_fusion.o	22		cmtx_sub4x4_16x16	NatureDSP_Signal_298
cmtx_sub4x4_32x32_fusion.o	22		cmtx_sub4x4_32x32	NatureDSP_Signal_299
cmtx_sub4x4f_fusion.o	22		cmtx_sub4x4f	NatureDSP_Signal_300
cmtx_tran2x2_16x16_fusion.o	68		cmtx_tran2x2_16x16	
cmtx_tran2x2_32x32_fusion.o	42		cmtx_tran2x2_32x32	
cmtx_tran2x2f_fusion.o	42		cmtx_tran2x2f	
cmtx_tran3x3_16x16_fusion.o	163		cmtx_tran3x3_16x16	
cmtx_tran3x3_32x32_fusion.o	72		cmtx_tran3x3_32x32	
cmtx_tran3x3f_fusion.o	72		cmtx_tran3x3f	
cmtx_tran4x4_16x16_fusion.o	98		cmtx_tran4x4_16x16	
cmtx_tran4x4_32x32_fusion.o	114		cmtx_tran4x4_32x32	
cmtx_tran4x4f_fusion.o	114		cmtx_tran4x4f	
cxfir_convola32x16_fusion.o	125		cxfir_convola32x16	
cxfir_convola32x16_fusion.o	325		cxfir_convola32x16	
cxfir_xcorraf_fusion.o	272		cxfir_xcorraf	
cxfir_xcorrff_fusion.o	188		cxfir_xcorrff	
cxfir16x16_fusion.o	460		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir24x24_fusion.o	629		cxfir24x24_alloc, cxfir24x24_init, cxfir24x24_process	
cxfir32x16_fusion.o	604		cxfir32x16_alloc, cxfir32x16_init, cxfir32x16_process	
cxfir32x32_fusion.o	541		cxfir32x32_alloc, cxfir32x32_init, cxfir32x32_process	
cxfirf_fusion.o	80		cxfirf_alloc, cxfirf_init	
cxfirf_process_fusion.o	246		cxfirf_process	
cxfirinterp16x16_fusion.o	358		cxfirinterp16x16_alloc, cxfirinterp16x16_init, cxfirinterp16x16_process	NatureDSP_Signal_320, NatureDSP_Signal_321, NatureDSP_Signal_322, NatureDSP_Signal_323
dct_24x24_fusion.o	1434	256	dct_24x24	
dct_32x16_fusion.o	1291	136	dct_32x16	
dct_16x16_fusion.o	740	100	dct_16x16	cffft16x16_16, fft_cplx16x16
dct_32x32_fusion.o	815	192	dct_32x32	cffft32_16, fft_cplx32x32
dctf_fusion.o	479	708	dctf	fft_cplx16_ie
expf_tbl.o		48	NatureDSP_Signal_211, NatureDSP_Signal_213, NatureDSP_Signal_272	
fft_cplx16x16_fusion.o	1440		fft_cplx16x16	
fft_cplx24x24_fusion.o	8915		fft_cplx24x24	
fft_cplx24x24_ie_fusion.o	459		fft_cplx24x24_ie	NatureDSP_Signal_188
fft_cplx_24x24_s1_ie_fusion.o	927		NatureDSP_Signal_201	
fft_cplx32x16_fusion.o	3381	24	fft_cplx32x16	
fft_cplx32x16_ie_fusion.o	458		fft_cplx32x16_ie	NatureDSP_Signal_188
fft_cplx_incl024_fusion.o		384	NatureDSP_Signal_104	
fft_cplx_incl128_fusion.o		16	NatureDSP_Signal_101	
fft_cplx_inc2048_fusion.o		768	NatureDSP_Signal_105	
fft_cplx_inc256_fusion.o		64	NatureDSP_Signal_102	
fft_cplx_inc4096_fusion.o		2048	NatureDSP_Signal_106	
fft_cplx_inc512_fusion.o		128	NatureDSP_Signal_103	
fft_cplx_inc64_fusion.o		8	NatureDSP_Signal_100	
fft_cplx_twd1024_24x24_fusion.o		6164	cffft24_1024, NatureDSP_Signal_135, rfft24_2048	NatureDSP_Signal_104
fft_cplx_twd1024_fusion.o		3108	cffft16_1024, NatureDSP_Signal_113, rfft16_2048	NatureDSP_Signal_104, NatureDSP_Signal_107, NatureDSP_Signal_109, NatureDSP_Signal_111
fft_cplx_twd128_24x24_fusion.o		788	cffft24_128, NatureDSP_Signal_132, rfft24_256	NatureDSP_Signal_101
fft_cplx_twd128_fusion.o		412	cffft16_128, NatureDSP_Signal_110, rfft16_256	NatureDSP_Signal_101, NatureDSP_Signal_108
fft_cplx_twd16_24x24_fusion.o		116	cffft24_16, NatureDSP_Signal_129, rfft24_32	
fft_cplx_twd16_fusion.o		72	cffft16_16, NatureDSP_Signal_107, rfft16_32	
fft_cplx_twd2048_24x24_fusion.o		12308	cffft24_2048, NatureDSP_Signal_136, rfft24_4096	NatureDSP_Signal_105
fft_cplx_twd2048_fusion.o		6180	cffft16_2048, NatureDSP_Signal_114, rfft16_4096	NatureDSP_Signal_105, NatureDSP_Signal_108, NatureDSP_Signal_110, NatureDSP_Signal_112
fft_cplx_twd256_24x24_fusion.o		1556	cffft24_256, NatureDSP_Signal_133, rfft24_512	NatureDSP_Signal_102
fft_cplx_twd256_fusion.o		800	cffft16_256, NatureDSP_Signal_111, rfft16_512	NatureDSP_Signal_102, NatureDSP_Signal_107, NatureDSP_Signal_109
fft_cplx_twd32_24x24_fusion.o		212	cffft24_32, NatureDSP_Signal_130, rfft24_64	
fft_cplx_twd32_fusion.o		120	cffft16_32, NatureDSP_Signal_108, rfft16_64	
fft_cplx_twd4096_24x24_fusion.o		24596	cffft24_4096, NatureDSP_Signal_137, rfft24_8192	NatureDSP_Signal_106
fft_cplx_twd4096_fusion.o		12328	cffft16_4096, NatureDSP_Signal_115, rfft16_8192	NatureDSP_Signal_106, NatureDSP_Signal_107, NatureDSP_Signal_109, NatureDSP_Signal_111, NatureDSP_Signal_113
fft_cplx_twd512_24x24_fusion.o		3092	cffft24_512, NatureDSP_Signal_134, rfft24_1024	NatureDSP_Signal_103
fft_cplx_twd512_fusion.o		1568	cffft16_512, NatureDSP_Signal_112, rfft16_1024	NatureDSP_Signal_103, NatureDSP_Signal_108, NatureDSP_Signal_110
fft_cplx_twd64_24x24_fusion.o		404	cffft24_64, NatureDSP_Signal_131, rfft24_128	NatureDSP_Signal_100
fft_cplx_twd64_fusion.o		220	cffft16_64, NatureDSP_Signal_109, rfft16_128	NatureDSP_Signal_100, NatureDSP_Signal_107
fft_cplx_twiddles_24x24.o	351	249478	NatureDSP_Signal_004	
fft_cplx16_ie_fusion.o	1167		fft_cplx16_ie	
fft_pack24_ie_fusion.o	98		NatureDSP_Signal_190, NatureDSP_Signal_191	
fft_real16x16_fusion.o	526		fft_real16x16	fft_cplx16x16, NatureDSP_Signal_002
fft_real24x24_fusion.o	363		fft_real24x24	fft_cplx24x24, NatureDSP_Signal_001, vec_bexp24
fft_real24x24_ie_24p_fusion.o	327		fft_real24x24_ie_24p	NatureDSP_Signal_190, NatureDSP_Signal_200, NatureDSP_Signal_201
fft_real24x24_ie_fusion.o	297		fft_real24x24_ie	fft_cplx24x24_ie
fft_real32x16_fusion.o	292		fft_real32x16	fft_cplx32x16, NatureDSP_Signal_002
fft_real32x16_ie_24p_fusion.o	62		fft_real32x16_ie_24p	fft_real32x16_ie, NatureDSP_Signal_190, NatureDSP_Signal_191
fft_real32x16_ie_fusion.o	297		fft_real32x16_ie	fft_cplx32x16_ie
fft_real_twiddles.o		8192	NatureDSP_Signal_002	
fft_real_twiddles_24x24.o		16384	NatureDSP_Signal_001	
fft_real16_ie_fusion.o	372		fft_real16_ie	fft_cplx16_ie
fft_revorder_ie_fusion.o	46		NatureDSP_Signal_189	
fft_stage_last_ie_fusion.o	354		NatureDSP_Signal_188	
fft_unpack24to32_s1_ie_fusion.o	87		NatureDSP_Signal_200	
fft_cplx32x32_fusion.o	1100		fft_cplx32x32	divsi3
fft_real32x32_fusion.o	308		fft_real32x32	fft_cplx32x32, NatureDSP_Signal_301
fft_cplx_twd1024_32x32_fusion.o		6172	cffft32_1024, ciffft32_1024, rfft32_2048, rffft32_2048	
fft_cplx_twd128_32x32_fusion.o		796	cffft32_128, ciffft32_128, rfft32_256, rffft32_256	
fft_cplx_twd16_32x32_fusion.o		124	cffft32_16, ciffft32_16, rfft32_32, rffft32_32	
fft_cplx_twd2048_32x32_fusion.o		12316	cffft32_2048, ciffft32_2048, rfft32_4096, rffft32_4096	
fft_cplx_twd256_32x32_fusion.o		1564	cffft32_256, ciffft32_256, rfft32_512, rffft32_512	
fft_cplx_twd32_32x32_fusion.o		220	cffft32_32, ciffft32_32, rfft32_64, rffft32_64	

Object file	Code size	Data size	Symbols	
			Global	Referenced
fft cplx twd4096 32x32 fusion.o		24604	cfft32_4096, ciff32_4096, rfft32_8192, riff32_8192	
fft cplx twd512 32x32 fusion.o		3100	cfft32_512, ciff32_512, rfft32_1024, riff32_1024	
fft cplx twd64 32x32 fusion.o		412	cfft32_64, ciff32_64, rfft32_128, riff32_128	
fft real twd32 fusion.o		16384	NatureDSP Signal 301	
fft cplx twd1024 16x16 fusion.o		3092	cfft16x16_1024, rfft16x16_2048	
fft cplx twd128 16x16 fusion.o		404	cfft16x16_128, rfft16x16_256	
fft cplx twd16 16x16 fusion.o		68	cfft16x16_16, rfft16x16_32	
fft cplx twd2048 16x16 fusion.o		6164	cfft16x16_2048, rfft16x16_4096	
fft cplx twd256 16x16 fusion.o		788	cfft16x16_256, rfft16x16_512	
fft cplx twd32 16x16 fusion.o		116	cfft16x16_32, rfft16x16_64	
fft cplx twd4096 16x16 fusion.o		12308	cfft16x16_4096, rfft16x16_8192	
fft cplx twd512 16x16 fusion.o		1556	cfft16x16_512, rfft16x16_1024	
fft cplx twd64 16x16 fusion.o		212	cfft16x16_64, rfft16x16_128	
fir acorr16x16 fusion.o	26		fir acorr16x16	fir xcorr16x16
fir acorr24x24 fusion.o	26		fir acorr24x24	fir xcorr24x24
fir acorr32x32 fusion.o	224		fir acorr32x32	
fir acorra16x16 fusion.o	207		fir acorra16x16	NatureDSP Signal 318
fir acorra24x24 fusion.o	639		fir acorra24x24	
fir acorra32x32 fusion.o	825		fir acorra32x32	
fir acorraf fusion.o	28		fir acorraf	fir xcorraf
fir acorrf fusion.o	26		fir acorrf	fir xcorrf
fir blms16x16 fusion.o	973		fir blms16x16	
fir blms16x32 fusion.o	1170		fir blms16x32	
fir blms24x24 fusion.o	783		fir blms24x24	
fir blms32x32 fusion.o	675		fir blms32x32	
fir blmsf fusion.o	463		fir blmsf	
fir convoll6x16 fusion.o	538		fir convoll6x16	
fir convol24x24 fusion.o	146		fir convol24x24	
fir convol32x16 fusion.o	146		fir convol32x16	
fir convol32x32 fusion.o	239		fir convol32x32	
fir convola16x16 fusion.o	223		fir convola16x16	NatureDSP Signal 318
fir convola24x24 fusion.o	266		fir convola24x24	NatureDSP Signal 261
fir convola32x16 fusion.o	259		fir convola32x16	NatureDSP Signal 262
fir convola32x32 fusion.o	255		fir convola32x32	NatureDSP Signal 319
fir convolaf fusion.o	191		fir convolaf	NatureDSP Signal 256
fir convolf fusion.o	213		fir convolf	
fir decimaf 2x fusion.o	297		NatureDSP Signal 214	
fir decimaf 3x fusion.o	441		NatureDSP Signal 215	
fir decimaf 4x fusion.o	499		NatureDSP Signal 216	
fir decimaf Dx fusion.o	245		NatureDSP Signal 217	
fir interp 2x fusion.o	192		NatureDSP Signal 218	
fir interp 3x fusion.o	250		NatureDSP Signal 219	
fir interp 4x fusion.o	324		NatureDSP Signal 220	
fir interp Dx fusion.o	383		NatureDSP Signal 221	
fir lacorra16x16 fusion.o	1123		fir lacorra16x16	
fir lacorra32x32 fusion.o	542		fir lacorra32x32	
fir lacorraf fusion.o	443		fir lacorraf	
fir lconvola16x16 fusion.o	179		fir lconvola16x16	NatureDSP Signal 314
fir lconvola32x16 fusion.o	176		fir lconvola32x16	NatureDSP Signal 315
fir lconvola32x32 fusion.o	180		fir lconvola32x32	NatureDSP Signal 316
fir lconvolaf fusion.o	121		fir lconvolaf	NatureDSP Signal 317
fir lxcorra16x16 fusion.o	175		fir lxcorra16x16	NatureDSP Signal 314
fir lxcorra32x16 fusion.o	175		fir lxcorra32x16	NatureDSP Signal 315
fir lxcorra32x32 fusion.o	162		fir lxcorra32x32	NatureDSP Signal 316
fir lxcorraf fusion.o	98		fir lxcorraf	NatureDSP Signal 317
fir xcorr16x16 fusion.o	574		fir xcorr16x16	
fir xcorr24x24 fusion.o	146		fir xcorr24x24	
fir xcorr32x16 fusion.o	146		fir xcorr32x16	
fir xcorr32x32 fusion.o	224		fir xcorr32x32	
fir xcorral6x16 fusion.o	200		fir xcorral6x16	NatureDSP Signal 318
fir xcorra24x24 fusion.o	218		fir xcorra24x24	NatureDSP Signal 261
fir xcorra32x16 fusion.o	228		fir xcorra32x16	NatureDSP Signal 262
fir xcorra32x32 fusion.o	218		fir xcorra32x32	NatureDSP Signal 319
fir xcorraf fusion.o	182		fir xcorraf	NatureDSP Signal 256
fir xcorrf fusion.o	207		fir xcorrf	
firdec16x16 fusion.o	365		firdec16x16_alloc, firdec16x16_init, firdec16x16_process	NatureDSP_Signal_306, NatureDSP_Signal_307, NatureDSP_Signal_308, NatureDSP_Signal_309
firdec16x16 D2 fusion.o	196		NatureDSP Signal 306	
firdec16x16 D3 fusion.o	246		NatureDSP Signal 307	
firdec16x16 D4 fusion.o	196		NatureDSP Signal 308	
firdec16x16 DX fusion.o	248		NatureDSP Signal 309	
firdec24x24 fusion.o	1577	12	firdec24x24_alloc, firdec24x24_init, firdec24x24_process	
firdec32x16 fusion.o	1155	12	firdec32x16_alloc, firdec32x16_init, firdec32x16_process	
firdec32x32 D2 fusion.o	329		NatureDSP Signal 310	
firdec32x32 D3 fusion.o	379		NatureDSP Signal 311	
firdec32x32 D4 fusion.o	442		NatureDSP Signal 312	
firdec32x32 DX fusion.o	370		NatureDSP Signal 313	
firdec32x32 fusion.o	357		firdec32x32_alloc, firdec32x32_init, firdec32x32_process	NatureDSP_Signal_310, NatureDSP_Signal_311, NatureDSP_Signal_312, NatureDSP_Signal_313
firdecf fusion.o	220	12	firdecf_alloc, firdecf_init, firdecf_process	NatureDSP_Signal_214, NatureDSP_Signal_215, NatureDSP_Signal_216, NatureDSP_Signal_217
firinterp16x16 fusion.o	361		firinterp16x16_alloc, firinterp16x16_init, firinterp16x16_process	firinterp16x16_D2_proc, firinterp16x16_D3_proc, firinterp16x16_D4_proc, firinterp16x16_DX_proc
firinterp16x16 D2 fusion.o	310		firinterp16x16_D2_proc	
firinterp16x16 D3 fusion.o	604		firinterp16x16_D3_proc	
firinterp16x16 D4 fusion.o	416		firinterp16x16_D4_proc	
firinterp16x16 DX fusion.o	505		firinterp16x16_DX_proc	
firinterp24x24 fusion.o	555		firinterp24x24_alloc, firinterp24x24_init, firinterp24x24_process	
firinterp32x16 fusion.o	553		firinterp32x16_alloc, firinterp32x16_init, firinterp32x16_process	
firinterp32x32 D2 fusion.o	417		NatureDSP Signal 302	
firinterp32x32 D3 fusion.o	459		NatureDSP Signal 303	
firinterp32x32 D4 fusion.o	453		NatureDSP Signal 304	
firinterp32x32 DX fusion.o	446		NatureDSP Signal 305	
firinterp32x32 fusion.o	318		firinterp32x32_alloc, firinterp32x32_init, firinterp32x32_process	NatureDSP_Signal_302, NatureDSP_Signal_303, NatureDSP_Signal_304, NatureDSP_Signal_305
firinterp 2x fusion.o	304	12	firinterp_alloc, firinterp_init, firinterp_process	NatureDSP_Signal_218, NatureDSP_Signal_219, NatureDSP_Signal_220, NatureDSP_Signal_221
ifft cplx16x16 fusion.o	1440		ifft cplx16x16, stage inner DFT4xI2ss	
ifft cplx24x24 fusion.o	8872		ifft cplx24x24	
ifft cplx24x24 ie fusion.o	41		ifft cplx24x24_ie	fft_cplx24x24_ie, NatureDSP Signal 189
ifft cplx32x16 fusion.o	3375	24	ifft cplx32x16	
ifft cplx32x16 ie fusion.o	41		ifft cplx32x16_ie	fft_cplx32x16_ie, NatureDSP Signal 189

Object file	Code size	Data size	Symbols	
			Global	Referenced
ifft cplx twd1024 24x24 fusion.o		6164	cifft24 1024, NatureDSP_Signal_157, rifft24 2048	NatureDSP_Signal_104
ifft cplx twd1024 fusion.o		3108	cifft16 1024, NatureDSP_Signal_122, rifft16 2048	NatureDSP_Signal_104, NatureDSP_Signal_116, NatureDSP_Signal_118, NatureDSP_Signal_120
ifft cplx twd128 24x24 fusion.o		788	cifft24 128, NatureDSP_Signal_150, rifft24 256	NatureDSP_Signal_101
ifft cplx twd128 fusion.o		412	cifft16 128, NatureDSP_Signal_119, rifft16 256	NatureDSP_Signal_101, NatureDSP_Signal_117
ifft cplx twd16 24x24 fusion.o		116	cifft24 16, NatureDSP_Signal_138, rifft24 32	
ifft cplx twd16 fusion.o		72	cifft16 16, NatureDSP_Signal_116, rifft16 32	
ifft cplx twd2048 24x24 fusion.o		12308	cifft24 2048, NatureDSP_Signal_158, rifft24 4096	NatureDSP_Signal_105
ifft cplx twd2048 fusion.o		6180	cifft16 2048, NatureDSP_Signal_127, rifft16 4096	NatureDSP_Signal_105, NatureDSP_Signal_117, NatureDSP_Signal_119, NatureDSP_Signal_121
ifft cplx twd256 24x24 fusion.o		1556	cifft24 256, NatureDSP_Signal_155, rifft24 512	NatureDSP_Signal_102
ifft cplx twd256 fusion.o		800	cifft16 256, NatureDSP_Signal_120, rifft16 512	NatureDSP_Signal_102, NatureDSP_Signal_116, NatureDSP_Signal_118
ifft cplx twd32 24x24 fusion.o		212	cifft24 32, NatureDSP_Signal_139, rifft24 64	
ifft cplx twd32 fusion.o		120	cifft16 32, NatureDSP_Signal_117, rifft16 64	
ifft cplx twd4096 24x24 fusion.o		24596	cifft24 4096, NatureDSP_Signal_159, rifft24 8192	NatureDSP_Signal_106
ifft cplx twd4096 fusion.o		12328	cifft16 4096, NatureDSP_Signal_128, rifft16 8192	NatureDSP_Signal_106, NatureDSP_Signal_116, NatureDSP_Signal_118, NatureDSP_Signal_120, NatureDSP_Signal_122
ifft cplx twd512 24x24 fusion.o		3092	cifft24 512, NatureDSP_Signal_156, rifft24 1024	NatureDSP_Signal_103
ifft cplx twd512 fusion.o		1568	cifft16 512, NatureDSP_Signal_121, rifft16 1024	NatureDSP_Signal_103, NatureDSP_Signal_117, NatureDSP_Signal_119
ifft cplx twd64 24x24 fusion.o		404	cifft24 64, NatureDSP_Signal_140, rifft24 128	NatureDSP_Signal_100
ifft cplx twd64 fusion.o		220	cifft16 64, NatureDSP_Signal_118, rifft16 128	NatureDSP_Signal_100, NatureDSP_Signal_116
ifft cplx ie fusion.o	1239		ifft cplx ie	
ifft real16x16 fusion.o	593		ifft real16x16	ifft_cplx16x16, NatureDSP_Signal_002
ifft real24x24 fusion.o	747		ifft real24x24	ifft_cplx24x24, NatureDSP_Signal_001, vec_bexp24, vec_bexp32
ifft real24x24 ie 24p fusion.o	560		ifft real24x24 ie 24p	NatureDSP_Signal_189, NatureDSP_Signal_190, NatureDSP_Signal_200, NatureDSP_Signal_201
ifft real24x24 ie fusion.o	332		ifft real24x24 ie	ifft_cplx24x24 ie
ifft real32x16 fusion.o	417		ifft real32x16	ifft_cplx32x16, NatureDSP_Signal_002
ifft real32x16 ie 24p fusion.o	62		ifft real32x16 ie 24p	ifft_real32x16 ie, NatureDSP_Signal_190, NatureDSP_Signal_191
ifft real32x16 ie fusion.o	333		ifft real32x16 ie	ifft_cplx32x16 ie
ifft realf ie fusion.o	417		ifft realf ie	ifft_cplx ie
ifft cplx32x32 fusion.o	1100		ifft cplx32x32	divsi3
ifft real32x32 fusion.o	346		ifft real32x32	ifft_cplx32x32, NatureDSP_Signal_301
ifft cplx twd1024 16x16 fusion.o		3092	cifft16x16 1024, rifft16x16 2048	
ifft cplx twd128 16x16 fusion.o		404	cifft16x16 128, rifft16x16 256	
ifft cplx twd16 16x16 fusion.o		68	cifft16x16 16, rifft16x16 32	
ifft cplx twd2048 16x16 fusion.o		6164	cifft16x16 2048, rifft16x16 4096	
ifft cplx twd256 16x16 fusion.o		788	cifft16x16 256, rifft16x16 512	
ifft cplx twd32 16x16 fusion.o		116	cifft16x16 32, rifft16x16 64	
ifft cplx twd4096 16x16 fusion.o		12308	cifft16x16 4096, rifft16x16 8192	
ifft cplx twd512 16x16 fusion.o		1556	cifft16x16 512, rifft16x16 1024	
ifft cplx twd64 16x16 fusion.o		212	cifft16x16 64, rifft16x16 128	
inff tbl.o		12	NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_245	
inv2pif tbl.o		16	NatureDSP_Signal_222, NatureDSP_Signal_223, NatureDSP_Signal_296	
raw lcorrl16x16 fusion.o	2147		NatureDSP_Signal_314	
latr16x16 fusion.o	3316	36	latr16x16 alloc, latr16x16 init, latr16x16 process	
latr24x24 fusion.o	2398		latr24x24 alloc, latr24x24 init, latr24x24 process	
latr32x16 fusion.o	2870		latr32x16 alloc, latr32x16 init, latr32x16 process	
latr32x32 fusion.o	2529	36	latr32x32 alloc, latr32x32 init, latr32x32 process	
latrf fusion.o	176	32	latrf alloc, latrf init, latrf process	NatureDSP_Signal_224, NatureDSP_Signal_225, NatureDSP_Signal_226, NatureDSP_Signal_227, NatureDSP_Signal_228, NatureDSP_Signal_229, NatureDSP_Signal_230, NatureDSP_Signal_231, NatureDSP_Signal_232
latrf1 fusion.o	165		NatureDSP_Signal_224	
latrf2 fusion.o	176		NatureDSP_Signal_225	
latrf3 fusion.o	228		NatureDSP_Signal_226	
latrf4 fusion.o	283		NatureDSP_Signal_227	
latrf5 fusion.o	374		NatureDSP_Signal_228	
latrf6 fusion.o	149		NatureDSP_Signal_229	
latrf7 fusion.o	805		NatureDSP_Signal_230	
latrf8 fusion.o	1048		NatureDSP_Signal_231	
latrfX fusion.o	883		NatureDSP_Signal_232	
log10f tbl.o		44	NatureDSP_Signal_203, NatureDSP_Signal_204, NatureDSP_Signal_205	
log2f tbl.o		40	NatureDSP_Signal_234	
lognf tbl.o		36	NatureDSP_Signal_233, NatureDSP_Signal_260	
logq23 tbl.o		32	NatureDSP_Signal_292	
mtx add2x2 16x16 fusion.o	22		mtx add2x2 16x16	vec_add16x16
mtx add2x2 32x32 fusion.o	22		mtx add2x2 32x32	vec_add32x32
mtx add2x2f fusion.o	22		mtx add2x2f	vec_addf
mtx add3x3 16x16 fusion.o	22		mtx add3x3 16x16	vec_add16x16
mtx add3x3 32x32 fusion.o	22		mtx add3x3 32x32	vec_add32x32
mtx add3x3f fusion.o	22		mtx add3x3f	vec_addf
mtx add4x4 16x16 fusion.o	22		mtx add4x4 16x16	vec_add16x16
mtx add4x4 32x32 fusion.o	22		mtx add4x4 32x32	vec_add32x32
mtx add4x4f fusion.o	22		mtx add4x4f	vec_addf
mtx det2x2 16x16 fusion.o	114		mtx det2x2 16x16	
mtx det2x2 32x32 fusion.o	119		mtx det2x2 32x32	
mtx det2x2f fusion.o	196		mtx det2x2f	
mtx det3x3 16x16 fusion.o	379		mtx det3x3 16x16	
mtx det3x3 32x32 fusion.o	416		mtx det3x3 32x32	
mtx det3x3f fusion.o	326		mtx det3x3f	
mtx det4x4 16x16 fusion.o	914		mtx det4x4 16x16	
mtx det4x4 32x32 fusion.o	450		mtx det4x4 32x32	
mtx det4x4f fusion.o	554		mtx det4x4f	
mtx inv2x2f fusion.o	71		mtx inv2x2f	
mtx inv3x3f fusion.o	543		mtx inv3x3f	
mtx inv4x4f fusion.o	799		mtx inv4x4f	
mtx mpy16x16 fusion.o	1102		mtx mpy16x16	
mtx mpy16x16 m8p2 fusion.o	304		mtx mpy16x16 fast	
mtx mpy24x24 fusion.o	450		mtx mpy24x24	
mtx mpy24x24 m8p2 fusion.o	217		mtx mpy24x24 fast	

Object file	Code size	Data size	Symbols	
			Global	Referenced
mtx mpy32x32 fast fusion.o	245		mtx mpy32x32 fast	
mtx mpy32x32 fusion.o	554		mtx mpy32x32	
mtx mpyf fast fusion.o	341		mtx mpyf fast	
mtx mpyf fusion.o	652		mtx mpyf	
mtx mul2x2 16x16 fusion.o	316		mtx mul2x2 16x16	
mtx mul2x2 32x32 fusion.o	167		mtx mul2x2 32x32	
mtx mul2x2f fusion.o	202		mtx mul2x2f	
mtx mul3x3 16x16 fusion.o	930		mtx mul3x3 16x16	divsi3
mtx mul3x3 32x32 fusion.o	552		mtx mul3x3 32x32	
mtx mul3x3f fusion.o	455		mtx mul3x3f	
mtx mul4x4 16x16 fusion.o	609		mtx mul4x4 16x16	
mtx mul4x4 32x32 fusion.o	324		mtx mul4x4 32x32	
mtx mul4x4f fusion.o	281		mtx mul4x4f	
mtx sub2x2 16x16 fusion.o	22		mtx sub2x2 16x16	NatureDSP Signal 298
mtx sub2x2 32x32 fusion.o	22		mtx sub2x2 32x32	NatureDSP Signal 299
mtx sub2x2f fusion.o	22		mtx sub2x2f	NatureDSP Signal 300
mtx sub3x3 16x16 fusion.o	22		mtx sub3x3 16x16	NatureDSP Signal 298
mtx sub3x3 32x32 fusion.o	22		mtx sub3x3 32x32	NatureDSP Signal 299
mtx sub3x3f fusion.o	22		mtx sub3x3f	NatureDSP Signal 300
mtx sub4x4 16x16 fusion.o	22		mtx sub4x4 16x16	NatureDSP Signal 298
mtx sub4x4 32x32 fusion.o	22		mtx sub4x4 32x32	NatureDSP Signal 299
mtx sub4x4f fusion.o	22		mtx sub4x4f	NatureDSP Signal 300
mtx tran2x2 16x16 fusion.o	115		mtx tran2x2 16x16	
mtx tran2x2 32x32 fusion.o	68		mtx tran2x2 32x32	
mtx tran2x2f fusion.o	68		mtx tran2x2f	
mtx tran3x3 16x16 fusion.o	518		mtx tran3x3 16x16	
mtx tran3x3 32x32 fusion.o	163		mtx tran3x3 32x32	
mtx tran3x3f fusion.o	160		mtx tran3x3f	
mtx tran4x4 16x16 fusion.o	148		mtx tran4x4 16x16	
mtx tran4x4 32x32 fusion.o	98		mtx tran4x4 32x32	
mtx tran4x4f fusion.o	98		mtx tran4x4f	
mtx vecmpyl6x16 fast fusion.o	179		mtx vecmpyl6x16 fast	
mtx vecmpyl6x16 fusion.o	554		mtx vecmpyl6x16	
mtx vecmpy24x24 fast fusion.o	125		mtx vecmpy24x24 fast	
mtx vecmpy24x24 fusion.o	198		mtx vecmpy24x24	
mtx vecmpy32x32 fast fusion.o	133		mtx vecmpy32x32 fast	
mtx vecmpy32x32 fusion.o	230		mtx vecmpy32x32	
mtx vecmpyf fast fusion.o	327		mtx vecmpyf fast	
mtx vecmpyf fusion.o	461		mtx vecmpyf	
nan tbl.o		32	NatureDSP_Signal_235, NatureDSP_Signal_236, NatureDSP_Signal_237, NatureDSP_Signal_238	
nanf tbl.o		16	NatureDSP_Signal_239, NatureDSP_Signal_240, NatureDSP_Signal_241, NatureDSP_Signal_242	
pif tbl.o		16	NatureDSP_Signal_246, NatureDSP_Signal_247, NatureDSP_Signal_248, NatureDSP_Signal_249	
polyatan16x16q23 tbl.o		28	NatureDSP_Signal_293	
polypowq23 tbl.o		20	NatureDSP_Signal_294	
polyrsqrtq23 tbl.o		20	NatureDSP_Signal_290	
q2rot 16x16 fusion.o	418		q2rot 16x16	
q2rot 32x32 fusion.o	311		q2rot 32x32	
q2rotf fusion.o	357		q2rotf	
raw corrl6x16 fusion.o	635		NatureDSP_Signal_318	
raw corr24x24 fusion.o	326		NatureDSP_Signal_261	
raw corr32x16 fusion.o	320		NatureDSP_Signal_262	
raw corr32x32 fusion.o	394		NatureDSP_Signal_319	
raw corrf fusion.o	368		NatureDSP_Signal_256	
raw lcorrl6x16 fusion.o	2147		NatureDSP_Signal_314	
raw lcorr32x16 fusion.o	1358		NatureDSP_Signal_315	
raw lcorr32x32 fusion.o	1360		NatureDSP_Signal_316	
raw lcorrf.o	1114		NatureDSP_Signal_317	
scl acosf fusion.o	311		scl acosf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_246, NatureDSP_Signal_249, NatureDSP_Signal_295
scl antilog10 24x24 fusion.o	127		scl antilog10 24x24	NatureDSP_Signal_202
scl antilog10 32x32 fusion.o	121		scl antilog10 32x32	NatureDSP_Signal_202
scl antilog2 24x24 fusion.o	110		scl antilog2 24x24	NatureDSP_Signal_202
scl antilog2 32x32 fusion.o	107		scl antilog2 32x32	NatureDSP_Signal_202
scl antilogn 24x24 fusion.o	127		scl antilogn 24x24	NatureDSP_Signal_202
scl antilogn 32x32 fusion.o	121		scl antilogn 32x32	NatureDSP_Signal_202
scl antilog10 16x16 fusion.o	92		scl antilog10 16x16	NatureDSP_Signal_294
scl antilog10f fusion.o	303		scl antilog10f	_reent_ptr, NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_244, NatureDSP_Signal_272
scl antilog2 16x16 fusion.o	76		scl antilog2 16x16	NatureDSP_Signal_294
scl antilog2f fusion.o	305		scl antilog2f	_reent_ptr, NatureDSP_Signal_208, NatureDSP_Signal_244, NatureDSP_Signal_272
scl antilogn 16x16 fusion.o	92		scl antilogn 16x16	NatureDSP_Signal_294
scl antilognf fusion.o	280		scl antilognf	_reent_ptr, NatureDSP_Signal_213, NatureDSP_Signal_244, NatureDSP_Signal_272
scl asinf fusion.o	308		scl asinf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_246, NatureDSP_Signal_295
scl atan16x16 fusion.o	65		scl atan16x16	NatureDSP_Signal_293
scl atan24x24 fusion.o	77		scl atan24x24	NatureDSP_Signal_013
scl atan32x32 fusion.o	137		scl atan32x32	NatureDSP_Signal_012
scl atan table.o		524	NatureDSP_Signal_012	
scl atan table16.o		136	NatureDSP_Signal_013	
scl atan2 16x16 fusion.o	179		scl atan2 16x16	NatureDSP_Signal_293
scl atan2f fusion.o	283		scl atan2f	_reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_246, NatureDSP_Signal_249
scl atanf fusion.o	183		scl atanf	_reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_244, NatureDSP_Signal_246
scl bexp16 fusion.o	41		scl bexp16	
scl bexp24 fusion.o	41		scl bexp24	
scl bexp32 fusion.o	32		scl bexp32	
scl bexpf fusion.o	85		scl bexpf	
scl complex2invmag fusion.o	161		scl complex2invmag	NatureDSP_Signal_244
scl complex2mag fusion.o	203		scl complex2mag	
scl cosinel6x16 fusion.o	98	12	scl cosinel6x16	
scl cosine24x24 fusion.o	104		scl cosine24x24	NatureDSP_Signal_286
scl cosine32x32 fusion.o	113		scl cosine32x32	NatureDSP_Signal_009
scl cosinef fusion.o	232	24	scl cosinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_296
scl divide16x16 fusion.o	196		scl divide16x16	
scl divide24x24 fusion.o	19		scl divide24x24	scl divide32x32
scl divide32x32 fusion.o	172		scl divide32x32	
scl dividef fusion.o	80		scl dividef	
scl float2ceil fusion.o	11		scl float2ceil	



Object file	Code size	Data size	Symbols	
			Global	Referenced
scl float2floor fusion.o	11		scl float2floor	
scl float2int fusion.o	29		scl float2int	
scl int2float fusion.o	23		scl int2float	
scl log10 16x16 fusion.o	130		scl log10 16x16	NatureDSP Signal 292
scl log10 24x24 fusion.o	122		scl log10 24x24	NatureDSP Signal 011
scl log10 32x32 fusion.o	113		scl log10 32x32	NatureDSP Signal 011
scl log10f fusion.o	447		scl log10f	_reent_ptr, NatureDSP_Signal_203, NatureDSP_Signal_205, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
scl log2 16x16 fusion.o	124		scl log2 16x16	NatureDSP Signal 292
scl log2 24x24 fusion.o	107		scl log2 24x24	NatureDSP Signal 011
scl log2 32x32 fusion.o	104		scl log2 32x32	NatureDSP Signal 011
scl log2f fusion.o	444		scl log2f	_reent_ptr, NatureDSP_Signal_234, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258
scl logn 16x16 fusion.o	127		scl logn 16x16	NatureDSP Signal 292
scl logn 24x24 fusion.o	122		scl logn 24x24	NatureDSP Signal 011
scl logn 32x32 fusion.o	113		scl logn 32x32	NatureDSP Signal 011
scl lognf fusion.o	455		scl lognf	_reent_ptr, NatureDSP_Signal_233, NatureDSP_Signal_241, NatureDSP_Signal_243, NatureDSP_Signal_244, NatureDSP_Signal_258, NatureDSP_Signal_260
scl recip16x16 fusion.o	175		scl recip16x16	
scl recip24x24 fusion.o	19		scl recip24x24	scl recip32x32
scl recip32x32 fusion.o	170		scl recip32x32	
scl recipf fusion.o	80	4	scl recipf	NatureDSP Signal 244
scl rsqrtf fusion.o	282		scl rsqrtf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_244
scl sine16x16 fusion.o	101	16	scl sine16x16	
scl sine24x24 fusion.o	98		scl sine24x24	NatureDSP Signal 286
scl sine32x32 fusion.o	113		scl sine32x32	NatureDSP Signal 009
scl sine table16.o		1028	NatureDSP Signal 257	
scl sine table32.o		2072	NatureDSP Signal 009, NatureDSP Signal 286	
scl sinef fusion.o	232	24	scl sinef	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253, NatureDSP_Signal_296
scl sqrt16x16 fusion.o	131		scl sqrt16x16	NatureDSP Signal 290
scl sqrt24x24 fusion.o	128		scl sqrt24x24	NatureDSP Signal 010
scl sqrt32x32 fusion.o	121		scl sqrt32x32	NatureDSP Signal 010
scl sqrt table.o		1024	NatureDSP Signal 010	
scl sqrtf fusion.o	198		scl sqrtf	_reent_ptr, NatureDSP_Signal_241
scl tan16x16 fusion.o	185		scl tan16x16	NatureDSP Signal 291
scl tan24x24 fusion.o	269		scl tan24x24	NatureDSP Signal 286
scl tan32x32 fusion.o	269		scl tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009
scl tanf fusion.o	298	24	scl tanf	_reent_ptr, NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255, NatureDSP_Signal_296
sinf tbl.o		52	NatureDSP_Signal_250, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253	
sqrt2f tbl.o		8	NatureDSP_Signal_258, NatureDSP_Signal_259	
tan16x16 tbl.o		32	NatureDSP_Signal_291	
tanf tbl.o		36	NatureDSP_Signal_254, NatureDSP_Signal_255	
vec acosf fusion.o	1259		vec acosf	NatureDSP_Signal_246, NatureDSP_Signal_249, NatureDSP_Signal_295
vec add16x16 fusion.o	124		vec add16x16	
vec add16x16 fusion fast.o	32		vec add16x16 fast	
vec add24x24 fusion.o	66		vec add24x24	
vec add24x24 fusion fast.o	32		vec add24x24 fast	
vec add32x32 fusion.o	66		vec add32x32	
vec add32x32 fusion fast.o	32		vec add32x32 fast	
vec addf fusion.o	231		vec addf	
vec alog table.o		20	NatureDSP_Signal_202	
vec antilog10 24x24 fusion.o	484		vec antilog10 24x24	NatureDSP_Signal_202
vec antilog10 32x32 fusion.o	484		vec antilog10 32x32	NatureDSP_Signal_202
vec antilog10f fusion.o	395	8	vec antilog10f	NatureDSP_Signal_272
vec antilog2 24x24 fusion.o	422		vec antilog2 24x24	NatureDSP_Signal_202
vec antilog2 32x32 fusion.o	422		vec antilog2 32x32	NatureDSP_Signal_202
vec antilog2f fusion.o	592	4	vec antilog2f	NatureDSP_Signal_272
vec antilogn 24x24 fusion.o	484		vec antilogn 24x24	NatureDSP_Signal_202
vec antilogn 32x32 fusion.o	484		vec antilogn 32x32	NatureDSP_Signal_202
vec antilognf fusion.o	607	8	vec antilognf	NatureDSP_Signal_272
vec antilog10 16x16 fusion.o	557		vec antilog10 16x16	NatureDSP_Signal_294
vec antilog2 16x16 fusion.o	509		vec antilog2 16x16	NatureDSP_Signal_294
vec antilogn 16x16 fusion.o	557		vec antilogn 16x16	NatureDSP_Signal_294
vec asinf fusion.o	1218		vec asinf	NatureDSP_Signal_246, NatureDSP_Signal_295
vec atan16x16 fusion.o	485		vec atan16x16	NatureDSP_Signal_293
vec atan24x24 fusion.o	502		vec atan24x24	NatureDSP_Signal_013
vec atan32x32 fusion.o	452		vec atan32x32	NatureDSP_Signal_012
vec atan2 16x16 fusion.o	843		vec atan2 16x16	NatureDSP_Signal_293
vec atan2f fusion.o	1067	24	vec atan2f	NatureDSP_Signal_209, NatureDSP_Signal_210
vec atanf fusion.o	879		vec atanf	NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_244, NatureDSP_Signal_246
vec bexp16 fast fusion.o	61		vec bexp16 fast	
vec bexp16 fusion.o	150		vec bexp16	
vec bexp24 fast fusion.o	50		vec bexp24 fast	
vec bexp24 fusion.o	180		vec bexp24	
vec bexp32 fast fusion.o	47		vec bexp32 fast	
vec bexp32 fusion.o	172		vec bexp32	
vec bexpf fusion.o	180		vec bexpf	
vec complex2invmag fusion.o	834		vec complex2invmag	divsi3, NatureDSP_Signal_244
vec complex2mag fusion.o	1071		vec complex2mag	divsi3
vec cosine16x16 fusion.o	544	12	vec cosine16x16	
vec cosine24x24 fast fusion.o	300		vec cosine24x24 fast	NatureDSP_Signal_286
vec cosine24x24 fusion.o	433		vec cosine24x24	NatureDSP_Signal_286
vec cosine32x32 fast fusion.o	246		vec cosine32x32 fast	NatureDSP_Signal_009
vec cosine32x32 fusion.o	454		vec cosine32x32	NatureDSP_Signal_009
vec cosinef fusion.o	1034	24	vec cosinef	NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252
vec divide16x16 fast fusion.o	895	8	vec divide16x16 fast	
vec divide16x16 fusion.o	643		vec divide16x16	
vec divide24x24 fast fusion.o	318		vec divide24x24 fast	
vec divide24x24 fusion.o	512	8	vec divide24x24	
vec divide32x32 fast fusion.o	429		vec divide32x32 fast	
vec divide32x32 fusion.o	663	8	vec divide32x32	

Object file	Code size	Data size	Symbols	
			Global	Referenced
vec dividef fusion.o	189		vec dividef	
vec dot16x16 fast fusion.o	72		vec dot16x16 fast	
vec dot16x16 fusion.o	211		vec dot16x16	
vec dot24x24 fast fusion.o	39		vec dot24x24 fast	
vec dot24x24 fusion.o	119		vec dot24x24	
vec dot32x16 fast fusion.o	45		vec dot32x16 fast	
vec dot32x16 fusion.o	146		vec dot32x16	
vec dot32x32 fast fusion.o	112		vec dot32x32 fast	
vec dot32x32 fusion.o	176		vec dot32x32	
vec dotf fusion.o	223		vec dotf	
vec float2ceil fusion.o	42		vec float2ceil	
vec float2floor fusion.o	42		vec float2floor	
vec float2int fusion.o	141		vec float2int	
vec int2float fusion.o	122		vec int2float	
vec log table.o		1024	NatureDSP Signal 011	
vec log10 16x16 fusion.o	405		vec log10 16x16	NatureDSP Signal 292
vec log10 24x24 fusion.o	218		vec log10 24x24	NatureDSP Signal 011
vec log10 32x32 fusion.o	218		vec log10 32x32	NatureDSP Signal 011
				NatureDSP_Signal_203,
vec log10f fusion.o	733	32	vec log10f	NatureDSP Signal 205
vec log2 16x16 fusion.o	520		vec log2 16x16	NatureDSP Signal 292
vec log2 24x24 fusion.o	202		vec log2 24x24	NatureDSP Signal 011
vec log2 32x32 fusion.o	204		vec log2 32x32	NatureDSP Signal 011
vec log2f fusion.o	764	32	vec log2f	NatureDSP Signal 234
vec logn 16x16 fusion.o	523		vec logn 16x16	NatureDSP Signal 292
vec logn 24x24 fusion.o	218		vec logn 24x24	NatureDSP Signal 011
vec logn 32x32 fusion.o	218		vec logn 32x32	NatureDSP Signal 011
vec lognf fusion.o	871	36	vec lognf	NatureDSP Signal 260
vec max16x16 fast fusion.o	141		vec max16x16 fast	
vec max16x16 fusion.o	215		vec max16x16	
vec max24x24 fast fusion.o	102		vec max24x24 fast	
vec max24x24 fusion.o	120		vec max24x24	
vec max32x32 fast fusion.o	88		vec max32x32 fast	
vec max32x32 fusion.o	113		vec max32x32	
vec maxf fusion.o	58	4	vec maxf	
vec min16x16 fast fusion.o	149		vec min16x16 fast	
vec min16x16 fusion.o	215		vec min16x16	
vec min24x24 fast fusion.o	95		vec min24x24 fast	
vec min24x24 fusion.o	120		vec min24x24	
vec min32x32 fast fusion.o	88		vec min32x32 fast	
vec min32x32 fusion.o	113		vec min32x32	
vec minf fusion.o	58	4	vec minf	
vec poly4 16x16 fusion.o	581		vec poly4 16x16	
vec poly4 24x24 fusion.o	562		vec poly4 24x24	
vec poly4 32x32 fusion.o	464		vec poly4 32x32	
vec poly4f fusion.o	186		vec poly4f	
vec poly8 16x16 fusion.o	575		vec poly8 16x16	
vec poly8 24x24 fusion.o	727		vec poly8 24x24	
vec poly8 32x32 fusion.o	591		vec poly8 32x32	
vec poly8f fusion.o	306		vec poly8f	
vec power16x16 fast fusion.o	59		vec power16x16 fast	
vec power16x16 fusion.o	181		vec power16x16	
vec power24x24 fast fusion.o	48		vec power24x24 fast	
vec power24x24 fusion.o	136		vec power24x24	
vec power32x32 fast fusion.o	73		vec power32x32 fast	
vec power32x32 fusion.o	144		vec power32x32	
vec powerf fusion.o	222		vec powerf	
vec recip table.o		516	NatureDSP Signal 008	
vec recip16x16 fusion.o	793		vec recip16x16	
vec recip24x24 fusion.o	479	8	vec recip24x24	
vec recip32x32 fusion.o	472	8	vec recip32x32	
vec recipf fusion.o	231		vec recipf	
				NatureDSP Signal 241,
vec rsqrtf fusion.o	457		vec rsqrtf	NatureDSP Signal 244
vec scale sf fusion.o	183		vec scale sf	
vec scale16x16 fast fusion.o	111		vec scale16x16 fast	
vec scale16x16 fusion.o	245		vec scale16x16	
vec scale24x24 fast fusion.o	71		vec scale24x24 fast	
vec scale24x24 fusion.o	185		vec scale24x24	
vec scale32x24 fast fusion.o	112		vec scale32x24 fast	
vec scale32x24 fusion.o	165		vec scale32x24	
vec scalef fusion.o	149		vec scalef	
vec shift16x16 fast fusion.o	239		vec shift16x16 fast	
vec shift16x16 fusion.o	559		vec shift16x16	
vec shift24x24 fast fusion.o	57		vec shift24x24 fast	
vec shift24x24 fusion.o	111		vec shift24x24	
vec shift32x32 fast fusion.o	50		vec shift32x32 fast	
vec shift32x32 fusion.o	108		vec shift32x32	
vec shiftf fusion.o	223		vec shiftf	
vec sinel16x16 fusion.o	553	16	vec sinel16x16	
vec sine24x24 fast fusion.o	431		vec sine24x24 fast	NatureDSP Signal 286
vec sine24x24 fusion.o	558		vec sine24x24	NatureDSP Signal 286
vec sine32x32 fast fusion.o	243		vec sine32x32 fast	NatureDSP Signal 009
vec sine32x32 fusion.o	452		vec sine32x32	NatureDSP Signal 009
				NatureDSP_Signal_223,
vec sinef fusion.o	1063	24	vec sinef	NatureDSP_Signal_241,
vec sqrt16x16 fusion.o	594		vec sqrt16x16	NatureDSP_Signal_251,
vec sqrt24x24 fast fusion.o	334		vec sqrt24x24 fast	NatureDSP_Signal_252,
vec sqrt24x24 fusion.o	460		vec sqrt24x24	NatureDSP_Signal_253
vec sqrt32x32 fast fusion.o	341		vec sqrt32x32 fast	NatureDSP Signal 290
vec sqrt32x32 fusion.o	452		vec sqrt32x32	NatureDSP Signal 010
vec sqrtf fusion.o	551		vec sqrtf	NatureDSP Signal 010
vec sub16x16 fusion.o	124		NatureDSP Signal 298	NatureDSP Signal 244
vec sub32x32 fusion.o	66		NatureDSP Signal 299	
vec subf fusion.o	231		NatureDSP Signal 300	
vec tan16x16 fusion.o	1019		vec tan16x16	NatureDSP Signal 291
vec tan24x24 fusion.o	477		vec tan24x24	vec cosine24x24, vec sine24x24
				NatureDSP_Signal_008,
vec tan32x32 fusion.o	934		vec tan32x32	NatureDSP Signal 009
				NatureDSP_Signal_223,
vec tanf fusion.o	1563	24	vec tanf	NatureDSP_Signal_241,
feature.o	10		NatureDSP Signal isPresent	NatureDSP_Signal_254,
				NatureDSP_Signal_255
version.o	40	8	NatureDSP Signal get_library_api_version, NatureDSP Signal get_library_version	strncpy