IntegrIT
Embedded Software Design House

NatureDSP Signal Library for Fusion F1 with VFPU

Digital Signal Processing

Performance data

Configurations:
Tools: RI-2021.6
Core: FS_AVS_LE5_FP_XC
Compiler: XT-XCC

Library API: 3.4
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Contents

1.1 Functions Performance

Function name	Invocation parameters	Cycle count FS_AVS_LE5_FP_XC RI 2021.6 , XT-XCC
FIR filters:		
bkfir24x24_process	N=80; M=256	10622 (1.9 MACs/cycle)
bkfir24x24_process	N=2048; M=8	17432 (0.9 MACs/cycle)
bkfir24x24_process	N=160; M=8	1383 (0.9 MACs/cycle)
bkfir24x24_process	N=160; M=16	2023 (1.3 MACs/cycle)
bkfir24x24_process	N=1024; M=32	21012 (1.6 MACs/cycle)
bkfir24x24p_process	N=80; M=256	10683 (1.9 MACs/cycle)
bkfir24x24p_process	N=2048; M=8	18968 (0.9 MACs/cycle)
bkfir24x24p_process	N=160; M=8	1503 (0.9 MACs/cycle)
bkfir24x24p_process	N=160; M=16	2143 (1.2 MACs/cycle)
bkfir24x24p_process	N=1024; M=32	21781 (1.5 MACs/cycle)
bkfira24x24_process	N=80; M=256	10674 (1.9 MACs/cycle)
bkfira24x24_process	N=2048; M=8	18467 (0.9 MACs/cycle)
bkfira24x24_process	N=160; M=8	1473 (0.9 MACs/cycle)
bkfira24x24_process	N=160; M=16	2113 (1.2 MACs/cycle)
bkfira24x24_process	N=1024; M=32	21535 (1.5 MACs/cycle)
bkfir32x16_process	N=80; M=256	10624 (1.9 MACs/cycle)
bkfir32x16_process	N=2048; M=8	17434 (0.9 MACs/cycle)
bkfir32x16_process	N=160; M=8	1385 (0.9 MACs/cycle)
bkfir32x16_process	N=160; M=16	2025 (1.3 MACs/cycle)
bkfir32x16_process	N=1024; M=32	21014 (1.6 MACs/cycle)
bkfir32x32_process	N=80; M=256	21223 (1.0 MACs/cycle)
bkfir32x32_process	N=2048; M=8	34840 (0.5 MACs/cycle)
bkfir32x32_process	N=160; M=8	2743 (0.5 MACs/cycle)
bkfir32x32_process	N=160; M=16	4023 (0.6 MACs/cycle)
bkfir32x32_process	N=1024; M=32	42005 (0.8 MACs/cycle)
bkfira32x16_process	N=80; M=256	10734 (1.9 MACs/cycle)
bkfira32x16_process	N=2048; M=8	20003 (0.8 MACs/cycle)
bkfira32x16_process	N=160; M=8	1593 (0.8 MACs/cycle)
bkfira32x16_process	N=160; M=16	2233 (1.1 MACs/cycle)
bkfira32x16_process	N=1024; M=32	22304 (1.5 MACs/cycle)
cxfir32x16_process	N=80; M=128	21421 (1.9 MACs/cycle)
cxfir32x16_process	N=2048; M=8	56342 (1.2 MACs/cycle)
cxfir32x16_process	N=160; M=8	4421 (1.2 MACs/cycle)
cxfir32x16_process	N=160; M=16	6981 (1.5 MACs/cycle)

cxfir32x16_process	N=1024; M=32	77331 (1.7 MACs/cycle)
cxfir24x24_process	N=80; M=128	21223 (1.9 MACs/cycle)
cxfir24x24_process	N=2048; M=8	51224 (1.3 MACs/cycle)
cxfir24x24_process	N=160; M=8	4023 (1.3 MACs/cycle)
cxfir24x24_process	N=160; M=16	6583 (1.6 MACs/cycle)
cxfir24x24_process	N=1024; M=32	74774 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=2	15939 (1.0 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=2	138801 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=2	140849 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=2	142897 (1.9 MACs/cycle)
firdec32x16_process	N=80; M=256; D=2	10889 (1.9 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=3	20783 (0.8 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=3	159023 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=3	161327 (1.7 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=3	163631 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=16; D=4	23089 (0.7 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=4	146481 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=4	148529 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=261; D=4	150577 (1.8 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=5	161071 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=5	163375 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=256; D=7	163119 (1.6 MACs/cycle)
firdec32x16_process	N=1024; M=260; D=7	165420 (1.6 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=2	15679 (1.0 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=2	138542 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=2	140590 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=2	141102 (1.9 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=3	18741 (0.9 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=3	156982 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=3	159286 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=3	160438 (1.7 MACs/cycle)
firdec24x24_process	N=1024; M=16; D=4	25649 (0.6 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=4	149041 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=4	150577 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=261; D=4	151601 (1.8 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=5	177200 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=5	179760 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=256; D=7	179248 (1.5 MACs/cycle)
firdec24x24_process	N=1024; M=260; D=7	181808 (1.5 MACs/cycle)

firdec24x24_process	N=80; M=256; D=2	10864 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=2	33824 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=2	279584 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=2	283680 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=3	48160 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=3	416800 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=3	422944 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=16; D=4	62496 (1.0 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=4	554016 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=4	562209 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=5	691233 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=5	701472 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=256; D=7	965665 (1.9 MACs/cycle)
firinterp32x16_process	N=1024; M=260; D=7	980001 (1.9 MACs/cycle)
firinterp32x16_process	N=80; M=204; D=2	17710 (1.8 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=2	33824 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=2	279584 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=2	283680 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=3	48160 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=3	416800 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=3	422944 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=16; D=4	62496 (1.0 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=4	554016 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=4	562209 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=5	691233 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=5	701472 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=256; D=7	965665 (1.9 MACs/cycle)
firinterp24x24_process	N=1024; M=260; D=7	980001 (1.9 MACs/cycle)
firinterp24x24_process	N=80; M=204; D=2	17710 (1.8 MACs/cycle)
fir_convol32x16	N=80; M=56	2539 (1.8 MACs/cycle)
fir_convol32x16	N=256; M=80	11154 (1.8 MACs/cycle)
fir_convol24x24	N=80; M=56	2540 (1.8 MACs/cycle)
fir_convol24x24	N=256; M=80	11154 (1.8 MACs/cycle)
fir_convola32x16	N=80; M=56	2788 (1.6 MACs/cycle)
fir_convola32x16	N=256; M=80	11661 (1.8 MACs/cycle)
fir_convola24x24	N=80; M=56	2854 (1.6 MACs/cycle)
fir_convola24x24	N=256; M=80	11826 (1.7 MACs/cycle)
cxfir_convol32x16	N=80; M=56	9778 (1.8 MACs/cycle)
cxfir_convol32x16	N=256; M=80	43539 (1.9 MACs/cycle)

cxfir_convola32x16	N=80; M=56	10309 (1.7 MACs/cycle)
cxfir_convola32x16	N=256; M=80	44845 (1.8 MACs/cycle)
fir_xcorr32x16	N=80; M=56	2559 (1.8 MACs/cycle)
fir_xcorr32x16	N=256; M=80	11219 (1.8 MACs/cycle)
fir_xcorr24x24	N=80; M=56	2559 (1.8 MACs/cycle)
fir_xcorr24x24	N=256; M=80	11219 (1.8 MACs/cycle)
fir_xcorra32x16	N=80; M=56	2783 (1.6 MACs/cycle)
fir_xcorra32x16	N=256; M=80	11655 (1.8 MACs/cycle)
fir_xcorra24x24	N=80; M=56	2849 (1.6 MACs/cycle)
fir_xcorra24x24	N=256; M=80	11821 (1.7 MACs/cycle)
fir_acorr24x24	N=80	3541 (1.8 MACs/cycle)
fir_acorr24x24	N=256	33752 (1.9 MACs/cycle)
fir_acorra24x24	N=80	3858 (1.7 MACs/cycle)
fir_acorra24x24	N=256	34748 (1.9 MACs/cycle)
fir_blms16x32	N=80; M=16	1942 (1.3 MACs/cycle)
fir_blms16x32	N=64; M=16	1593 (1.3 MACs/cycle)
fir_blms16x32	N=64; M=64	5038 (1.6 MACs/cycle)
fir_blms16x32	N=80; M=64	6153 (1.7 MACs/cycle)
fir_blms16x32	N=80; M=128	11769 (1.7 MACs/cycle)
fir_blms16x32	N=64; M=128	9629 (1.7 MACs/cycle)
fir_blms24x24	N=80; M=16	1930 (1.3 MACs/cycle)
fir_blms24x24	N=64; M=16	1590 (1.3 MACs/cycle)
fir_blms24x24	N=64; M=64	5083 (1.6 MACs/cycle)
fir_blms24x24	N=80; M=64	6190 (1.7 MACs/cycle)
fir_blms24x24	N=80; M=128	11870 (1.7 MACs/cycle)
fir_blms24x24	N=64; M=128	9738 (1.7 MACs/cycle)
bkfiraf_process	N=512; M=32	20510 (0.8 MACs/cycle)
bkfiraf_process	N=1024; M=32	40990 (0.8 MACs/cycle)
bkfiraf_process	N=1024; M=256	270366 (1.0 MACs/cycle)
bkfiraf_process	N=1024; M=512	532510 (1.0 MACs/cycle)
bkfirf_process	N=512; M=32	20377 (0.8 MACs/cycle)
bkfirf_process	N=1024; M=32	40729 (0.8 MACs/cycle)
bkfirf_process	N=1024; M=256	270105 (1.0 MACs/cycle)
bkfirf_process	N=1024; M=512	532250 (1.0 MACs/cycle)
cxfirf_process	N=512; M=32	72729 (0.9 MACs/cycle)
cxfirf_process	N=512; M=256	531480 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=2	277547 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=2	539691 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=3	283690 (0.9 MACs/cycle)

firdecf_process	N=1024; M=512; D=3	545834 (1.0 MACs/cycle)
firdecf_process	N=1024; M=256; D=4	289834 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=4	551978 (0.9 MACs/cycle)
firdecf_process	N=1024; M=256; D=8	307245 (0.9 MACs/cycle)
firdecf_process	N=1024; M=512; D=8	569389 (0.9 MACs/cycle)
firdecf_process	N=1024; M=256; D=11	313389 (0.8 MACs/cycle)
firdecf_process	N=1024; M=512; D=11	575533 (0.9 MACs/cycle)
firdecf_process	N=1024; M=256; D=23	337965 (0.8 MACs/cycle)
firdecf_process	N=1024; M=512; D=23	600107 (0.9 MACs/cycle)
firinterpf_process	N=1024; M=256; D=2	534059 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=2	1058348 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=3	798765 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=3	1585198 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=4	1066032 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=4	2114608 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=256; D=8	2146865 (1.0 MACs/cycle)
firinterpf_process	N=1024; M=512; D=8	4244014 (1.0 MACs/cycle)
fir_convolf	N=80; M=56	4784 (0.9 MACs/cycle)
fir_convolf	N=256; M=80	21400 (1.0 MACs/cycle)
fir_convolaf	N=80; M=56	5222 (0.9 MACs/cycle)
fir_convolaf	N=256; M=80	22502 (0.9 MACs/cycle)
fir_xcorrf	N=80; M=56	4802 (0.9 MACs/cycle)
fir_xcorrf	N=256; M=80	21463 (1.0 MACs/cycle)
cxfir_xcorrf	N=80; M=56	18458 (1.0 MACs/cycle)
cxfir_xcorrf	N=256; M=80	83602 (1.0 MACs/cycle)
fir_xcorraf	N=80; M=56	5165 (0.9 MACs/cycle)
fir_xcorraf	N=256; M=80	22421 (0.9 MACs/cycle)
cxfir_xcorraf	N=80; M=56	18504 (1.0 MACs/cycle)
cxfir_xcorraf	N=256; M=80	83736 (1.0 MACs/cycle)
fir_acorrf	N=80	6746 (0.9 MACs/cycle)
fir_acorrf	N=256	66523 (1.0 MACs/cycle)
fir_acorraf	N=80	7153 (0.9 MACs/cycle)
fir_acorraf	N=256	67698 (1.0 MACs/cycle)
fir_blmsf	N=80; M=16	3182 (0.8 MACs/cycle)
fir_blmsf	N=64; M=16	2573 (0.8 MACs/cycle)
fir_blmsf	N=64; M=64	8957 (0.9 MACs/cycle)
fir_blmsf	N=80; M=64	11101 (0.9 MACs/cycle)
fir_blmsf	N=80; M=128	21661 (0.9 MACs/cycle)
fir_blmsf	N=64; M=128	17468 (0.9 MACs/cycle)

bkfir16x16_process	N=512; M=256	68376 (1.9 MACs/cycle)
bkfir16x16_process	N=512; M=32	11030 (1.5 MACs/cycle)
bkfira16x16_process	N=512; M=256	68514 (1.9 MACs/cycle)
bkfira16x16_process	N=512; M=32	11168 (1.5 MACs/cycle)
cxfir16x16_process	N=512; M=256	268183 (2.0 MACs/cycle)
cxfir16x16_process	N=512; M=32	38805 (1.7 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=2	16964 (1.0 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=2	139826 (1.9 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=2	141874 (1.9 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=2	143922 (1.9 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=3	20782 (0.8 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=3	159023 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=3	161327 (1.7 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=3	163631 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=16; D=4	24626 (0.7 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=4	148018 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=4	150066 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=261; D=4	152114 (1.8 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=5	161583 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=5	163887 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=256; D=7	164143 (1.6 MACs/cycle)
firdec16x16_process	N=1024; M=260; D=7	166447 (1.6 MACs/cycle)
firdec16x16_process	N=80; M=256; D=2	10968 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=2	38689 (0.8 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=2	284449 (1.8 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=2	288545 (1.8 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=3	55329 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=3	423969 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=3	430113 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=16; D=4	71969 (0.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=4	563489 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=4	571682 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=5	703010 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=5	713249 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=256; D=7	982050 (1.9 MACs/cycle)
firinterp16x16_process	N=1024; M=260; D=7	996386 (1.9 MACs/cycle)
firinterp16x16_process	N=80; M=204; D=2	18091 (1.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=2	78398 (0.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=2	569918 (1.8 MACs/cycle)

cxfirinterp16x16_process	N=1024; M=260; D=2	578110 (1.8 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=3	111678 (0.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=3	848958 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=3	861246 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=16; D=4	144958 (0.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=4	1127998 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=4	1144383 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=5	1407039 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=5	1427518 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=256; D=7	1965119 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=1024; M=260; D=7	1993791 (1.9 MACs/cycle)
cxfirinterp16x16_process	N=80; M=204; D=2	36260 (1.8 MACs/cycle)
bkfira32x32_process	N=512; M=256	135846 (1.0 MACs/cycle)
bkfira32x32_process	N=512; M=32	21157 (0.8 MACs/cycle)
cxfir32x32_process	N=512; M=256	528925 (1.0 MACs/cycle)
cxfir32x32_process	N=512; M=32	70171 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=2	25644 (0.6 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=2	271403 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=2	275499 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=2	279595 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=3	27695 (0.6 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=3	273456 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=3	277552 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=3	281648 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=16; D=4	29996 (0.5 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=4	275756 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=4	279852 (1.0 MACs/cycle)
firdec32x32_process	N=1024; M=261; D=4	283948 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=5	277041 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=5	281137 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=256; D=7	279089 (0.9 MACs/cycle)
firdec32x32_process	N=1024; M=260; D=7	283185 (0.9 MACs/cycle)
firdec32x32_process	N=80; M=256; D=2	21241 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=16; D=2	48196 (0.7 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=2	539699 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=2	547891 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=16; D=3	81715 (0.6 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=3	818995 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=3	831283 (1.0 MACs/cycle)

firinterp32x32_process	N=1024; M=16; D=4	107827 (0.6 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=4	1090867 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=4	1107252 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=5	1357110 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=5	1377589 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=256; D=7	1897782 (1.0 MACs/cycle)
firinterp32x32_process	N=1024; M=260; D=7	1926454 (1.0 MACs/cycle)
firinterp32x32_process	N=80; M=204; D=2	33889 (1.0 MACs/cycle)
fir_acorr16x16	N=80	3663 (1.7 MACs/cycle)
fir_acorr16x16	N=256	34137 (1.9 MACs/cycle)
fir_xcorr16x16	N=80; M=56	2678 (1.7 MACs/cycle)
fir_xcorr16x16	N=256; M=80	11602 (1.8 MACs/cycle)
fir_convol16x16	N=80; M=56	2618 (1.7 MACs/cycle)
fir_convol16x16	N=256; M=80	11410 (1.8 MACs/cycle)
fir_acorra16x16	N=80	3831 (1.7 MACs/cycle)
fir_acorra16x16	N=256	34571 (1.9 MACs/cycle)
fir_xcorra16x16	N=80; M=56	2850 (1.6 MACs/cycle)
fir_xcorra16x16	N=256; M=80	11869 (1.7 MACs/cycle)
fir_convola16x16	N=80; M=56	2854 (1.6 MACs/cycle)
fir_convola16x16	N=256; M=80	11872 (1.7 MACs/cycle)
fir_lacorra16x16	N=80	2183 (1.5 MACs/cycle)
fir_lacorra16x16	N=256	18156 (1.8 MACs/cycle)
fir_lxcorra16x16	N=80; M=56	3634 (1.2 MACs/cycle)
fir_lxcorra16x16	N=256; M=80	12946 (1.6 MACs/cycle)
fir_lconvola16x16	N=80; M=56	3636 (1.2 MACs/cycle)
fir_lconvola16x16	N=256; M=80	12947 (1.6 MACs/cycle)
fir_lxcorra32x16	N=80; M=56	3192 (1.4 MACs/cycle)
fir_lxcorra32x16	N=256; M=80	12195 (1.7 MACs/cycle)
fir_lconvola32x16	N=80; M=56	3194 (1.4 MACs/cycle)
fir_lconvola32x16	N=256; M=80	12197 (1.7 MACs/cycle)
fir_acorr32x32	N=80	6635 (1.0 MACs/cycle)
fir_acorr32x32	N=256	66255 (1.0 MACs/cycle)
fir_xcorr32x32	N=80; M=56	4717 (0.9 MACs/cycle)
fir_xcorr32x32	N=256; M=80	21201 (1.0 MACs/cycle)
fir_convol32x32	N=80; M=56	4718 (0.9 MACs/cycle)
fir_convol32x32	N=256; M=80	21202 (1.0 MACs/cycle)
fir_acorra32x32	N=80	6970 (0.9 MACs/cycle)
fir_acorra32x32	N=256	67251 (1.0 MACs/cycle)
fir_xcorra32x32	N=80; M=56	5000 (0.9 MACs/cycle)

fir_xcorra32x32	N=256; M=80	21735 (0.9 MACs/cycle)
fir_convola32x32	N=80; M=56	5005 (0.9 MACs/cycle)
fir_convola32x32	N=256; M=80	21739 (0.9 MACs/cycle)
fir_lacorra32x32	N=80	3836 (0.8 MACs/cycle)
fir_lacorra32x32	N=256	34725 (0.9 MACs/cycle)
fir_lxcorra32x32	N=80; M=56	5325 (0.8 MACs/cycle)
fir_lxcorra32x32	N=256; M=80	22118 (0.9 MACs/cycle)
fir_lconvola32x32	N=80; M=56	5328 (0.8 MACs/cycle)
fir_lconvola32x32	N=256; M=80	22120 (0.9 MACs/cycle)
fir_lacorraf	N=80	3889 (0.8 MACs/cycle)
fir_lacorraf	N=256	34910 (0.9 MACs/cycle)
fir_lxcorraf	N=80; M=56	5555 (0.8 MACs/cycle)
fir_lxcorraf	N=256; M=80	22658 (0.9 MACs/cycle)
fir_lconvolaf	N=80; M=56	5559 (0.8 MACs/cycle)
fir_lconvolaf	N=256; M=80	22661 (0.9 MACs/cycle)
fir_blms16x16	N=80; M=16	1953 (1.3 MACs/cycle)
fir_blms16x16	N=64; M=16	1601 (1.3 MACs/cycle)
fir_blms16x16	N=64; M=64	4998 (1.6 MACs/cycle)
fir_blms16x16	N=80; M=64	6118 (1.7 MACs/cycle)
fir_blms16x16	N=80; M=128	11669 (1.8 MACs/cycle)
fir_blms16x16	N=64; M=128	9526 (1.7 MACs/cycle)
fir_blms32x32	N=80; M=16	3005 (0.9 MACs/cycle)
fir_blms32x32	N=64; M=16	2432 (0.8 MACs/cycle)
fir_blms32x32	N=64; M=64	8805 (0.9 MACs/cycle)
fir_blms32x32	N=80; M=64	10912 (0.9 MACs/cycle)
fir_blms32x32	N=80; M=128	21456 (1.0 MACs/cycle)
fir_blms32x32	N=64; M=128	17300 (0.9 MACs/cycle)
IIR filters:		
bqriir32x16_df1	N=256, M=1, gain=0	1456 (5.7 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=2, gain=1	2632 (5.1 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=3, gain=0	3813 (5.0 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=4, gain=1	4994 (4.9 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=5, gain=0	6175 (4.8 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=6, gain=1	7356 (4.8 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=7, gain=0	8537 (4.8 cycles/biquad*pts)
bqriir32x16_df1	N=256, M=8, gain=1	9717 (4.7 cycles/biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=0	2038 (5.1 cycles/biquad*pts)
bqriir32x16_df1	N=80, M=5, gain=1	2038 (5.1 cycles/biquad*pts)

bqriir32x16_df2	N=256, M=1, gain=0	1446 (5.6 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=2, gain=1	3001 (5.9 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=3, gain=0	4561 (5.9 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=4, gain=1	6121 (6.0 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=5, gain=0	7682 (6.0 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=6, gain=1	9241 (6.0 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=7, gain=0	10802 (6.0 cycles/biquad*pts)
bqriir32x16_df2	N=256, M=8, gain=1	12361 (6.0 cycles/biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=0	2490 (6.2 cycles/biquad*pts)
bqriir32x16_df2	N=80, M=5, gain=1	2489 (6.2 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=1, gain=0	1459 (5.7 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=2, gain=1	2765 (5.4 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=3, gain=0	4078 (5.3 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=4, gain=1	5390 (5.3 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=5, gain=0	6702 (5.2 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=6, gain=1	8014 (5.2 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=7, gain=0	9326 (5.2 cycles/biquad*pts)
bqriir24x24_df1	N=256, M=8, gain=1	10638 (5.2 cycles/biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=0	2214 (5.5 cycles/biquad*pts)
bqriir24x24_df1	N=80, M=5, gain=1	2214 (5.5 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=1, gain=0	1454 (5.7 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=2, gain=1	3008 (5.9 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=3, gain=0	4568 (5.9 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=4, gain=1	6128 (6.0 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=5, gain=0	7688 (6.0 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=6, gain=1	9248 (6.0 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=7, gain=0	10808 (6.0 cycles/biquad*pts)
bqriir24x24_df2	N=256, M=8, gain=1	12368 (6.0 cycles/biquad*pts)
bqriir24x24_df2	N=80, M=5, gain=0	2496 (6.2 cycles/biquad*pts)
bqriir24x24_df2	N=80, M=5, gain=1	2496 (6.2 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=1, gain=0	1962 (7.7 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=2, gain=1	3899 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=3, gain=0	5841 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=4, gain=1	7783 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=5, gain=0	9725 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=6, gain=1	11667 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=7, gain=0	13609 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=256, M=8, gain=1	15551 (7.6 cycles/biquad*pts)
bqriir32x32_df2	N=80, M=5, gain=0	3124 (7.8 cycles/biquad*pts)

bqriir32x32_df2	N=80, M=5, gain=1	3124 (7.8 cycles/biquad*pts)
latr32x16_process	N=256, M=1	1069 (4.2 cycles/sample*M)
latr32x16_process	N=256, M=2	1322 (2.6 cycles/sample*M)
latr32x16_process	N=256, M=3	2347 (3.1 cycles/sample*M)
latr32x16_process	N=256, M=4	3111 (3.0 cycles/sample*M)
latr32x16_process	N=256, M=5	3880 (3.0 cycles/sample*M)
latr32x16_process	N=256, M=6	4651 (3.0 cycles/sample*M)
latr32x16_process	N=256, M=7	5936 (3.3 cycles/sample*M)
latr32x16_process	N=256, M=8	6703 (3.3 cycles/sample*M)
latr32x16_process	N=256, M=9	13088 (5.7 cycles/sample*M)
latr32x16_process	N=80, M=6	1483 (3.1 cycles/sample*M)
latr24x24_process	N=256, M=1	813 (3.2 cycles/sample*M)
latr24x24_process	N=256, M=2	1326 (2.6 cycles/sample*M)
latr24x24_process	N=256, M=3	2345 (3.1 cycles/sample*M)
latr24x24_process	N=256, M=4	3881 (3.8 cycles/sample*M)
latr24x24_process	N=256, M=5	3628 (2.8 cycles/sample*M)
latr24x24_process	N=256, M=6	4655 (3.0 cycles/sample*M)
latr24x24_process	N=256, M=7	6961 (3.9 cycles/sample*M)
latr24x24_process	N=256, M=8	8488 (4.1 cycles/sample*M)
latr24x24_process	N=256, M=9	16426 (7.1 cycles/sample*M)
latr24x24_process	N=80, M=6	1487 (3.1 cycles/sample*M)
bqriirf_df2t	N=512, M=1	5205 (10.2 cycles/biquad*pts)
bqriirf_df2t	N=512, M=2	9577 (9.4 cycles/biquad*pts)
bqriirf_df2t	N=512, M=3	13949 (9.1 cycles/biquad*pts)
bqriirf_df2t	N=512, M=4	18321 (8.9 cycles/biquad*pts)
bqriirf_df2t	N=512, M=8	35809 (8.7 cycles/biquad*pts)
bqriirf_df2t	N=512, M=12	53297 (8.7 cycles/biquad*pts)
bqriirf_df2t	N=512, M=16	70786 (8.6 cycles/biquad*pts)
bqriirf_df1	N=512, M=1	4189 (8.2 cycles/biquad*pts)
bqriirf_df1	N=512, M=2	7555 (7.4 cycles/biquad*pts)
bqriirf_df1	N=512, M=3	10920 (7.1 cycles/biquad*pts)
bqriirf_df1	N=512, M=4	14284 (7.0 cycles/biquad*pts)
bqriirf_df1	N=512, M=8	27744 (6.8 cycles/biquad*pts)
bqriirf_df1	N=512, M=12	41205 (6.7 cycles/biquad*pts)
bqriirf_df1	N=512, M=16	54665 (6.7 cycles/biquad*pts)
bqriirf_df2	N=512, M=1	3921 (7.7 cycles/biquad*pts)
bqriirf_df2	N=512, M=2	7017 (6.9 cycles/biquad*pts)
bqriirf_df2	N=512, M=3	10114 (6.6 cycles/biquad*pts)
bqriirf_df2	N=512, M=4	13210 (6.5 cycles/biquad*pts)

bqriirf_df2	N=512, M=8	25593 (6.2 cycles/biquad*pts)
bqriirf_df2	N=512, M=12	37977 (6.2 cycles/biquad*pts)
bqriirf_df2	N=512, M=16	50362 (6.1 cycles/biquad*pts)
bqciirf_df1	N=512, M=1	8354 (16.3 cycles/biquad*pts)
bqciirf_df1	N=512, M=2	15085 (14.7 cycles/biquad*pts)
bqciirf_df1	N=512, M=3	21817 (14.2 cycles/biquad*pts)
bqciirf_df1	N=512, M=4	28550 (13.9 cycles/biquad*pts)
bqciirf_df1	N=512, M=8	55478 (13.5 cycles/biquad*pts)
bqciirf_df1	N=512, M=12	82405 (13.4 cycles/biquad*pts)
bqciirf_df1	N=512, M=16	109333 (13.3 cycles/biquad*pts)
latrf_process	N=256, M=1	1067 (4.2 cycles/sample*M)
latrf_process	N=256, M=2	2353 (4.6 cycles/sample*M)
latrf_process	N=256, M=3	3380 (4.4 cycles/sample*M)
latrf_process	N=256, M=4	3643 (3.6 cycles/sample*M)
latrf_process	N=256, M=5	4929 (3.9 cycles/sample*M)
latrf_process	N=256, M=6	10033 (6.5 cycles/sample*M)
latrf_process	N=256, M=7	11319 (6.3 cycles/sample*M)
latrf_process	N=256, M=8	12605 (6.2 cycles/sample*M)
latrf_process	N=256, M=9	13492 (5.9 cycles/sample*M)
latrf_process	N=80, M=6	3169 (6.6 cycles/sample*M)
bqriir16x16_df1	N=256, M=1, gain=0	1454 (5.7 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=2, gain=1	2753 (5.4 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=3, gain=0	4057 (5.3 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=4, gain=1	5359 (5.2 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=5, gain=0	6663 (5.2 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=6, gain=1	7965 (5.2 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=7, gain=0	9269 (5.2 cycles/biquad*pts)
bqriir16x16_df1	N=256, M=8, gain=1	10571 (5.2 cycles/biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=0	2175 (5.4 cycles/biquad*pts)
bqriir16x16_df1	N=80, M=5, gain=1	2172 (5.4 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=1, gain=0	1830 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=2, gain=1	3647 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=3, gain=0	5457 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=4, gain=1	7269 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=5, gain=0	9079 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=6, gain=1	10891 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=7, gain=0	12701 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=256, M=8, gain=1	14512 (7.1 cycles/biquad*pts)
bqriir16x16_df2	N=80, M=5, gain=0	2919 (7.3 cycles/biquad*pts)

bqriir16x16_df2	N=80, M=5, gain=1	2918 (7.3 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=1, gain=0	1320 (5.2 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=2, gain=1	2610 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=3, gain=0	3905 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=4, gain=1	5201 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=5, gain=0	6496 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=6, gain=1	7791 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=7, gain=0	9086 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=256, M=8, gain=1	10381 (5.1 cycles/biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=0	2094 (5.2 cycles/biquad*pts)
bqriir32x32_df1	N=80, M=5, gain=1	2094 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=1, gain=0	4340 (5.7 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=2, gain=1	8240 (5.4 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=3, gain=0	12150 (5.3 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=4, gain=1	16059 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=5, gain=0	19968 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=6, gain=1	23877 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=7, gain=0	27786 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=256, M=8, gain=1	31694 (5.2 cycles/biquad*pts)
bq3iir16x16_df1	N=80, M=5, gain=0	6504 (5.4 cycles/biquad*pts)
bq3iir16x16_df1	N=80, M=5, gain=1	6502 (5.4 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=1, gain=0	5457 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=2, gain=1	10871 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=3, gain=0	16295 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=4, gain=1	21719 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=5, gain=0	27144 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=6, gain=1	32568 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=7, gain=0	37993 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=256, M=8, gain=1	43416 (7.1 cycles/biquad*pts)
bq3iir16x16_df2	N=80, M=5, gain=0	8665 (7.2 cycles/biquad*pts)
bq3iir16x16_df2	N=80, M=5, gain=1	8663 (7.2 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=1, gain=0	3764 (4.9 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=2, gain=1	7274 (4.7 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=3, gain=0	10793 (4.7 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=4, gain=1	14312 (4.7 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=5, gain=0	17831 (4.6 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=6, gain=1	21350 (4.6 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=7, gain=0	24869 (4.6 cycles/biquad*pts)
bq3iir32x16_df1	N=256, M=8, gain=1	28389 (4.6 cycles/biquad*pts)

bq3iir32x16_df1	N=80, M=5, gain=0	5819 (4.8 cycles/biquad*pts)
bq3iir32x16_df1	N=80, M=5, gain=1	5818 (4.8 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=1, gain=0	3874 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=2, gain=1	7724 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=3, gain=0	11576 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=4, gain=1	15427 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=5, gain=0	19279 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=6, gain=1	23131 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=7, gain=0	26983 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=256, M=8, gain=1	30835 (5.0 cycles/biquad*pts)
bq3iir32x16_df2	N=80, M=5, gain=0	6079 (5.1 cycles/biquad*pts)
bq3iir32x16_df2	N=80, M=5, gain=1	6078 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=1, gain=0	3935 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=2, gain=1	7820 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=3, gain=0	11711 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=4, gain=1	15602 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=5, gain=0	19493 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=6, gain=1	23384 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=7, gain=0	27275 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=256, M=8, gain=1	31166 (5.1 cycles/biquad*pts)
bq3iir32x32_df1	N=80, M=5, gain=0	6293 (5.2 cycles/biquad*pts)
bq3iir32x32_df1	N=80, M=5, gain=1	6292 (5.2 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=1, gain=0	4704 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=2, gain=1	9348 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=3, gain=0	14001 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=4, gain=1	18654 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=5, gain=0	23307 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=6, gain=1	27960 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=7, gain=0	32613 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=256, M=8, gain=1	37266 (6.1 cycles/biquad*pts)
bq3iir32x32_df2	N=80, M=5, gain=0	7467 (6.2 cycles/biquad*pts)
bq3iir32x32_df2	N=80, M=5, gain=1	7465 (6.2 cycles/biquad*pts)
bq3iirf_df1	N=512, M=1	12526 (8.2 cycles/biquad*pts)
bq3iirf_df1	N=512, M=2	22633 (7.4 cycles/biquad*pts)
bq3iirf_df1	N=512, M=3	32740 (7.1 cycles/biquad*pts)
bq3iirf_df1	N=512, M=4	42846 (7.0 cycles/biquad*pts)
bq3iirf_df1	N=512, M=8	83275 (6.8 cycles/biquad*pts)
bq3iirf_df1	N=512, M=12	123703 (6.7 cycles/biquad*pts)
bq3iirf_df1	N=512, M=16	164129 (6.7 cycles/biquad*pts)

bq3iirf_df2	N=512, M=1	11694 (7.6 cycles/biquad*pts)
bq3iirf_df2	N=512, M=2	20961 (6.8 cycles/biquad*pts)
bq3iirf_df2	N=512, M=3	30229 (6.6 cycles/biquad*pts)
bq3iirf_df2	N=512, M=4	39496 (6.4 cycles/biquad*pts)
bq3iirf_df2	N=512, M=8	76564 (6.2 cycles/biquad*pts)
bq3iirf_df2	N=512, M=12	113631 (6.2 cycles/biquad*pts)
bq3iirf_df2	N=512, M=16	150697 (6.1 cycles/biquad*pts)
latr16x16_process	N=256, M=1	818 (3.2 cycles/sample*M)
latr16x16_process	N=256, M=2	1586 (3.1 cycles/sample*M)
latr16x16_process	N=256, M=3	2107 (2.7 cycles/sample*M)
latr16x16_process	N=256, M=4	2743 (2.7 cycles/sample*M)
latr16x16_process	N=256, M=5	3632 (2.8 cycles/sample*M)
latr16x16_process	N=256, M=6	4660 (3.0 cycles/sample*M)
latr16x16_process	N=256, M=7	5695 (3.2 cycles/sample*M)
latr16x16_process	N=256, M=8	6968 (3.4 cycles/sample*M)
latr16x16_process	N=256, M=9	12577 (5.5 cycles/sample*M)
latr16x16_process	N=80, M=6	1491 (3.1 cycles/sample*M)
latr32x32_process	N=256, M=1	811 (3.2 cycles/sample*M)
latr32x32_process	N=256, M=2	1586 (3.1 cycles/sample*M)
latr32x32_process	N=256, M=3	2347 (3.1 cycles/sample*M)
latr32x32_process	N=256, M=4	3120 (3.0 cycles/sample*M)
latr32x32_process	N=256, M=5	3893 (3.0 cycles/sample*M)
latr32x32_process	N=256, M=6	4905 (3.2 cycles/sample*M)
latr32x32_process	N=256, M=7	6702 (3.7 cycles/sample*M)
latr32x32_process	N=256, M=8	7216 (3.5 cycles/sample*M)
latr32x32_process	N=256, M=9	14115 (6.1 cycles/sample*M)
latr32x32_process	N=80, M=6	1558 (3.2 cycles/sample*M)
Matrix operations:		
mtx_mpy16x16	40x80 x 80x8	30324 (0.8 MACs/cycle)
mtx_mpy16x16	40x81 x 81x8	30734 (0.8 MACs/cycle)
mtx_mpy16x16	40x82 x 82x8	30984 (0.8 MACs/cycle)
mtx_mpy16x16	40x83 x 83x8	31394 (0.8 MACs/cycle)
mtx_mpy16x16	2x100 x 100x8	2876 (0.6 MACs/cycle)
mtx_mpy16x16	8x80 x 80x2	3362 (0.4 MACs/cycle)
mtx_mpy16x16	8x4 x 4x2	542 (0.1 MACs/cycle)
mtx_mpy16x16	8x16 x 16x2	994 (0.3 MACs/cycle)
mtx_mpy16x16	8x32 x 32x2	1586 (0.3 MACs/cycle)
mtx_mpy16x16_fast	8x80 x 80x2	1310 (1.0 MACs/cycle)

mtx_mpy16x16_fast	8x84 x 84x2	1370 (1.0 MACs/cycle)
mtx_mpy16x16_fast	8x4 x 4x2	173 (0.4 MACs/cycle)
mtx_mpy16x16_fast	8x16 x 16x2	350 (0.7 MACs/cycle)
mtx_mpy16x16_fast	8x32 x 32x2	590 (0.9 MACs/cycle)
mtx_mpy24x24	40x80 x 80x8	24616 (1.0 MACs/cycle)
mtx_mpy24x24	40x81 x 81x8	25128 (1.0 MACs/cycle)
mtx_mpy24x24	40x82 x 82x8	25132 (1.0 MACs/cycle)
mtx_mpy24x24	40x83 x 83x8	25644 (1.0 MACs/cycle)
mtx_mpy24x24	2x100 x 100x8	3328 (0.5 MACs/cycle)
mtx_mpy24x24	8x80 x 80x2	1573 (0.8 MACs/cycle)
mtx_mpy24x24	8x4 x 4x2	315 (0.2 MACs/cycle)
mtx_mpy24x24	8x16 x 16x2	517 (0.5 MACs/cycle)
mtx_mpy24x24	8x32 x 32x2	781 (0.7 MACs/cycle)
mtx_mpy24x24_fast	8x80 x 80x2	1232 (1.0 MACs/cycle)
mtx_mpy24x24_fast	8x84 x 84x2	1288 (1.0 MACs/cycle)
mtx_mpy24x24_fast	8x4 x 4x2	169 (0.4 MACs/cycle)
mtx_mpy24x24_fast	8x16 x 16x2	336 (0.8 MACs/cycle)
mtx_mpy24x24_fast	8x32 x 32x2	560 (0.9 MACs/cycle)
mtx_vecmpy16x16	16x100 x 100x1	1911 (0.8 MACs/cycle)
mtx_vecmpy16x16	16x104 x 104x1	1976 (0.8 MACs/cycle)
mtx_vecmpy16x16	40x40 x 40x1	2344 (0.7 MACs/cycle)
mtx_vecmpy16x16_fast	16x100 x 100x1	1821 (0.9 MACs/cycle)
mtx_vecmpy16x16_fast	16x104 x 104x1	1886 (0.9 MACs/cycle)
mtx_vecmpy16x16_fast	40x40 x 40x1	2134 (0.7 MACs/cycle)
mtx_vecmpy24x24	16x100 x 100x1	1950 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x101 x 101x1	1983 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x102 x 102x1	1983 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x103 x 103x1	2015 (0.8 MACs/cycle)
mtx_vecmpy24x24	16x104 x 104x1	2015 (0.8 MACs/cycle)
mtx_vecmpy24x24	40x40 x 40x1	2455 (0.7 MACs/cycle)
mtx_vecmpy24x24_fast	16x100 x 100x1	1342 (1.2 MACs/cycle)
mtx_vecmpy24x24_fast	16x104 x 104x1	1391 (1.2 MACs/cycle)
mtx_vecmpy24x24_fast	40x40 x 40x1	1535 (1.0 MACs/cycle)
mtx_mpyf	40x80 x 80x8	27205 (0.9 MACs/cycle)
mtx_mpyf	40x81 x 81x8	27525 (0.9 MACs/cycle)
mtx_mpyf	40x82 x 82x8	27845 (0.9 MACs/cycle)
mtx_mpyf	40x83 x 83x8	28165 (0.9 MACs/cycle)
mtx_mpyf	2x100 x 100x8	1723 (0.9 MACs/cycle)
mtx_mpyf	8x80 x 80x2	1481 (0.9 MACs/cycle)

mtx_mpyf	8x4 x 4x2	265 (0.2 MACs/cycle)
mtx_mpyf	8x16 x 16x2	457 (0.6 MACs/cycle)
mtx_mpyf	8x32 x 32x2	713 (0.7 MACs/cycle)
mtx_mpyf_fast	8x80 x 80x2	1360 (0.9 MACs/cycle)
mtx_mpyf_fast	8x84 x 84x2	1425 (0.9 MACs/cycle)
mtx_mpyf_fast	8x4 x 4x2	145 (0.4 MACs/cycle)
mtx_mpyf_fast	8x16 x 16x2	337 (0.8 MACs/cycle)
mtx_mpyf_fast	8x32 x 32x2	593 (0.9 MACs/cycle)
mtx_vecmpyf	16x100 x 100x1	1862 (0.9 MACs/cycle)
mtx_vecmpyf	16x101 x 101x1	1886 (0.9 MACs/cycle)
mtx_vecmpyf	16x102 x 102x1	1894 (0.9 MACs/cycle)
mtx_vecmpyf	16x103 x 103x1	1918 (0.9 MACs/cycle)
mtx_vecmpyf	16x104 x 104x1	1926 (0.9 MACs/cycle)
mtx_vecmpyf	40x40 x 40x1	2209 (0.7 MACs/cycle)
mtx_vecmpyf_fast	16x100 x 100x1	1723 (0.9 MACs/cycle)
mtx_vecmpyf_fast	16x104 x 104x1	1787 (0.9 MACs/cycle)
mtx_vecmpyf_fast	40x40 x 40x1	1867 (0.9 MACs/cycle)
mtx_mpy32x32	40x80 x 80x8	31815 (0.8 MACs/cycle)
mtx_mpy32x32	40x81 x 81x8	32486 (0.8 MACs/cycle)
mtx_mpy32x32	40x82 x 82x8	32490 (0.8 MACs/cycle)
mtx_mpy32x32	40x83 x 83x8	33162 (0.8 MACs/cycle)
mtx_mpy32x32	2x100 x 100x8	3766 (0.4 MACs/cycle)
mtx_mpy32x32	8x80 x 80x2	1931 (0.7 MACs/cycle)
mtx_mpy32x32	8x4 x 4x2	385 (0.2 MACs/cycle)
mtx_mpy32x32	8x16 x 16x2	619 (0.4 MACs/cycle)
mtx_mpy32x32	8x32 x 32x2	947 (0.5 MACs/cycle)
mtx_mpy32x32_fast	8x80 x 80x2	1400 (0.9 MACs/cycle)
mtx_mpy32x32_fast	8x84 x 84x2	1464 (0.9 MACs/cycle)
mtx_mpy32x32_fast	8x4 x 4x2	185 (0.3 MACs/cycle)
mtx_mpy32x32_fast	8x16 x 16x2	376 (0.7 MACs/cycle)
mtx_mpy32x32_fast	8x32 x 32x2	632 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x100 x 100x1	2015 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x101 x 101x1	2047 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x102 x 102x1	2047 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x103 x 103x1	2079 (0.8 MACs/cycle)
mtx_vecmpy32x32	16x104 x 104x1	2079 (0.8 MACs/cycle)
mtx_vecmpy32x32	40x40 x 40x1	2615 (0.6 MACs/cycle)
mtx_vecmpy32x32_fast	16x100 x 100x1	1726 (0.9 MACs/cycle)
mtx_vecmpy32x32_fast	16x104 x 104x1	1790 (0.9 MACs/cycle)

mtx_vecmpy32x32_fast	40x40 x 40x1	1894 (0.8 MACs/cycle)
mtx_add2x2_16x16	2x2, L=256	801 (3.1 cycles/matrix)
mtx_add3x3_16x16	3x3, L=256	1761 (6.9 cycles/matrix)
mtx_add4x4_16x16	4x4, L=256	3105 (12.1 cycles/matrix)
mtx_add2x2_32x32	2x2, L=256	1566 (6.1 cycles/matrix)
mtx_add3x3_32x32	3x3, L=256	3486 (13.6 cycles/matrix)
mtx_add4x4_32x32	4x4, L=256	6174 (24.1 cycles/matrix)
mtx_add2x2f	2x2, L=256	1583 (6.2 cycles/matrix)
mtx_add3x3f	3x3, L=256	3503 (13.7 cycles/matrix)
mtx_add4x4f	4x4, L=256	6191 (24.2 cycles/matrix)
cmtx_add2x2_16x16	2x2, L=256	1569 (6.1 cycles/matrix)
cmtx_add3x3_16x16	3x3, L=256	3489 (13.6 cycles/matrix)
cmtx_add4x4_16x16	4x4, L=256	6177 (24.1 cycles/matrix)
cmtx_add2x2_32x32	2x2, L=256	3095 (12.1 cycles/matrix)
cmtx_add3x3_32x32	3x3, L=256	6935 (27.1 cycles/matrix)
cmtx_add4x4_32x32	4x4, L=256	12311 (48.1 cycles/matrix)
cmtx_add2x2f	2x2, L=256	3119 (12.2 cycles/matrix)
cmtx_add3x3f	3x3, L=256	6959 (27.2 cycles/matrix)
cmtx_add4x4f	4x4, L=256	12335 (48.2 cycles/matrix)
mtx_sub2x2_16x16	2x2, L=256	801 (3.1 cycles/matrix)
mtx_sub3x3_16x16	3x3, L=256	1761 (6.9 cycles/matrix)
mtx_sub4x4_16x16	4x4, L=256	3105 (12.1 cycles/matrix)
mtx_sub2x2_32x32	2x2, L=256	1566 (6.1 cycles/matrix)
mtx_sub3x3_32x32	3x3, L=256	3486 (13.6 cycles/matrix)
mtx_sub4x4_32x32	4x4, L=256	6174 (24.1 cycles/matrix)
mtx_sub2x2f	2x2, L=256	1583 (6.2 cycles/matrix)
mtx_sub3x3f	3x3, L=256	3503 (13.7 cycles/matrix)
mtx_sub4x4f	4x4, L=256	6191 (24.2 cycles/matrix)
cmtx_sub2x2_16x16	2x2, L=256	1569 (6.1 cycles/matrix)
cmtx_sub3x3_16x16	3x3, L=256	3489 (13.6 cycles/matrix)
cmtx_sub4x4_16x16	4x4, L=256	6177 (24.1 cycles/matrix)
cmtx_sub2x2_32x32	2x2, L=256	3102 (12.1 cycles/matrix)
cmtx_sub3x3_32x32	3x3, L=256	6942 (27.1 cycles/matrix)
cmtx_sub4x4_32x32	4x4, L=256	12318 (48.1 cycles/matrix)
cmtx_sub2x2f	2x2, L=256	3119 (12.2 cycles/matrix)
cmtx_sub3x3f	3x3, L=256	6959 (27.2 cycles/matrix)
cmtx_sub4x4f	4x4, L=256	12335 (48.2 cycles/matrix)
mtx_mul2x2_16x16	2x2, L=256	2077 (8.1 cycles/matrix)
mtx_mul3x3_16x16	3x3, L=256	11148 (43.5 cycles/matrix)

mtx_mul4x4_16x16	4x4, L=256	16221 (63.4 cycles/matrix)
mtx_mul2x2_32x32	2x2, L=256	2582 (10.1 cycles/matrix)
mtx_mul3x3_32x32	3x3, L=256	11543 (45.1 cycles/matrix)
mtx_mul4x4_32x32	4x4, L=256	26895 (105.1 cycles/matrix)
mtx_mul2x2f	2x2, L=256	2075 (8.1 cycles/matrix)
mtx_mul3x3f	3x3, L=256	9245 (36.1 cycles/matrix)
mtx_mul4x4f	4x4, L=256	24336 (95.1 cycles/matrix)
cmtx_mul2x2_16x16	2x2, L=256	5657 (22.1 cycles/matrix)
cmtx_mul3x3_16x16	3x3, L=256	25359 (99.1 cycles/matrix)
cmtx_mul4x4_16x16	4x4, L=256	54550 (213.1 cycles/matrix)
cmtx_mul2x2_32x32	2x2, L=256	9237 (36.1 cycles/matrix)
cmtx_mul3x3_32x32	3x3, L=256	35859 (140.1 cycles/matrix)
cmtx_mul4x4_32x32	4x4, L=256	82446 (322.1 cycles/matrix)
cmtx_mul2x2f	2x2, L=256	8230 (32.1 cycles/matrix)
cmtx_mul3x3f	3x3, L=256	32050 (125.2 cycles/matrix)
cmtx_mul4x4f	4x4, L=256	83983 (328.1 cycles/matrix)
mtx_tran2x2_16x16	2x2, L=256	537 (2.1 cycles/matrix)
mtx_tran3x3_16x16	3x3, L=256	2332 (9.1 cycles/matrix)
mtx_tran4x4_16x16	4x4, L=256	2326 (9.1 cycles/matrix)
mtx_tran2x2_32x32	2x2, L=256	1043 (4.1 cycles/matrix)
mtx_tran3x3_32x32	3x3, L=256	2323 (9.1 cycles/matrix)
mtx_tran4x4_32x32	4x4, L=256	4112 (16.1 cycles/matrix)
mtx_tran2x2f	2x2, L=256	1043 (4.1 cycles/matrix)
mtx_tran3x3f	3x3, L=256	2323 (9.1 cycles/matrix)
mtx_tran4x4f	4x4, L=256	4112 (16.1 cycles/matrix)
cmtx_tran2x2_16x16	2x2, L=256	1043 (4.1 cycles/matrix)
cmtx_tran3x3_16x16	3x3, L=256	2323 (9.1 cycles/matrix)
cmtx_tran4x4_16x16	4x4, L=256	4112 (16.1 cycles/matrix)
cmtx_tran2x2_32x32	2x2, L=256	2063 (8.1 cycles/matrix)
cmtx_tran3x3_32x32	3x3, L=256	4623 (18.1 cycles/matrix)
cmtx_tran4x4_32x32	4x4, L=256	8207 (32.1 cycles/matrix)
cmtx_tran2x2f	2x2, L=256	2063 (8.1 cycles/matrix)
cmtx_tran3x3f	3x3, L=256	4623 (18.1 cycles/matrix)
cmtx_tran4x4f	4x4, L=256	8207 (32.1 cycles/matrix)
mtx_det2x2_16x16	2x2, L=256	1048 (4.1 cycles/matrix)
mtx_det3x3_16x16	3x3, L=256	5504 (21.5 cycles/matrix)
mtx_det4x4_16x16	4x4, L=256	12025 (47.0 cycles/matrix)
mtx_det2x2_32x32	2x2, L=256	1305 (5.1 cycles/matrix)
mtx_det3x3_32x32	3x3, L=256	2844 (11.1 cycles/matrix)

mtx_det4x4_32x32	4x4, L=256	8727 (34.1 cycles/matrix)
mtx_det2x2f	2x2, L=256	796 (3.1 cycles/matrix)
mtx_det3x3f	3x3, L=256	5648 (22.1 cycles/matrix)
mtx_det4x4f	4x4, L=256	7970 (31.1 cycles/matrix)
cmtx_det2x2_16x16	2x2, L=256	1693 (6.6 cycles/matrix)
cmtx_det3x3_16x16	3x3, L=256	9867 (38.5 cycles/matrix)
cmtx_det4x4_16x16	4x4, L=256	25570 (99.9 cycles/matrix)
cmtx_det2x2_32x32	2x2, L=256	2321 (9.1 cycles/matrix)
cmtx_det3x3_32x32	3x3, L=256	10267 (40.1 cycles/matrix)
cmtx_det4x4_32x32	4x4, L=256	70425 (275.1 cycles/matrix)
cmtx_det2x2f	2x2, L=256	2078 (8.1 cycles/matrix)
cmtx_det3x3f	3x3, L=256	10748 (42.0 cycles/matrix)
cmtx_det4x4f	4x4, L=256	80402 (314.1 cycles/matrix)
q2rot_16x16	L=256	5273 (20.6 cycles/matrix)
q2rot_32x32	L=256	6164 (24.1 cycles/matrix)
q2rotf	L=256	5675 (22.2 cycles/matrix)
Matrix inversion		
mtx_inv2x2f		46 (46.0 cycles/matrix)
mtx_inv3x3f		278 (278.0 cycles/matrix)
mtx_inv4x4f		566 (566.0 cycles/matrix)
cmtx_inv2x2f		81 (81.0 cycles/matrix)
cmtx_inv3x3f		643 (643.0 cycles/matrix)
cmtx_inv4x4f		1370 (1370.0 cycles/matrix)
Vector operations:		
vec_add16x16	N=200	174 (0.9 cycles/pts)
vec_add24x24	N=200	322 (1.6 cycles/pts)
vec_add32x32	N=200	321 (1.6 cycles/pts)
vec_add16x16_fast	N=200	164 (0.8 cycles/pts)
vec_add24x24_fast	N=200	314 (1.6 cycles/pts)
vec_add32x32_fast	N=200	314 (1.6 cycles/pts)
vec_power16x16	N=200	184 (0.9 cycles/pts)
vec_power24x24	N=200	133 (0.7 cycles/pts)
vec_power32x32	N=200	231 (1.2 cycles/pts)
vec_power16x16_fast	N=200	170 (0.8 cycles/pts)
vec_power24x24_fast	N=200	121 (0.6 cycles/pts)
vec_power32x32_fast	N=200	223 (1.1 cycles/pts)
vec_scale16x16	N=200	129 (0.6 cycles/pts)

vec_scale24x24	N=200	329 (1.6 cycles/pts)
vec_scale32x24	N=200	228 (1.1 cycles/pts)
vec_shift16x16	N=200	181 (0.9 cycles/pts)
vec_shift24x24	N=200	328 (1.6 cycles/pts)
vec_shift32x32	N=200	327 (1.6 cycles/pts)
vec_scale16x16_fast	N=200	124 (0.6 cycles/pts)
vec_scale24x24_fast	N=200	320 (1.6 cycles/pts)
vec_scale32x24_fast	N=200	223 (1.1 cycles/pts)
vec_shift16x16_fast	N=200	175 (0.9 cycles/pts)
vec_shift24x24_fast	N=200	321 (1.6 cycles/pts)
vec_shift32x32_fast	N=200	320 (1.6 cycles/pts)
vec_dot16x16	N=200	327 (1.6 cycles/pts)
vec_dot24x24	N=200	230 (1.1 cycles/pts)
vec_dot32x16	N=200	177 (0.9 cycles/pts)
vec_dot16x16_fast	N=200	128 (0.6 cycles/pts)
vec_dot24x24_fast	N=200	219 (1.1 cycles/pts)
vec_dot32x16_fast	N=200	169 (0.8 cycles/pts)
vec_max16x16	N=200	144 (0.7 cycles/pts)
vec_min16x16	N=200	145 (0.7 cycles/pts)
vec_max24x24	N=200	132 (0.7 cycles/pts)
vec_min24x24	N=200	133 (0.7 cycles/pts)
vec_max32x32	N=200	130 (0.6 cycles/pts)
vec_min32x32	N=200	131 (0.7 cycles/pts)
vec_max16x16_fast	N=200	123 (0.6 cycles/pts)
vec_min16x16_fast	N=200	125 (0.6 cycles/pts)
vec_max24x24_fast	N=200	123 (0.6 cycles/pts)
vec_min24x24_fast	N=200	123 (0.6 cycles/pts)
vec_max32x32_fast	N=200	122 (0.6 cycles/pts)
vec_min32x32_fast	N=200	123 (0.6 cycles/pts)
vec_poly4_24x24	N=200	850 (4.3 cycles/pts)
vec_poly8_24x24	N=200	1691 (8.5 cycles/pts)
vec_poly4_32x32	N=200	846 (4.2 cycles/pts)
vec_poly8_32x32	N=200	2084 (10.4 cycles/pts)
vec_dotf	N=200	233 (1.2 cycles/pts)
vec_addf	N=200	339 (1.7 cycles/pts)
vec_powerf	N=200	229 (1.1 cycles/pts)
vec_shiftf	N=200	438 (2.2 cycles/pts)
vec_scalef	N=200	327 (1.6 cycles/pts)
vec_scale_sf	N=200	1132 (5.7 cycles/pts)

vec_minf	N=200	419 (2.1 cycles/pts)
vec_maxf	N=200	419 (2.1 cycles/pts)
vec_poly4f	N=200	1171 (5.9 cycles/pts)
vec_poly8f	N=200	2072 (10.4 cycles/pts)
vec_dot32x32	N=200	234 (1.2 cycles/pts)
vec_dot32x32_fast	N=200	221 (1.1 cycles/pts)
vec_poly4_16x16	N=200	852 (4.3 cycles/pts)
vec_poly8_16x16	N=200	1713 (8.6 cycles/pts)
Vector mathematics:		
vec_recip16x16	N=256	3763 (14.7 cycles/pts)
vec_recip24x24	N=256	3815 (14.9 cycles/pts)
vec_recip32x32	N=256	6430 (25.1 cycles/pts)
vec_divide16x16	N=256	4792 (18.7 cycles/pts)
vec_divide24x24	N=256	2855 (11.2 cycles/pts)
vec_divide32x32	N=256	4385 (17.1 cycles/pts)
vec_divide16x16_fast	N=256	3591 (14.0 cycles/pts)
vec_divide24x24_fast	N=256	2843 (11.1 cycles/pts)
vec_divide32x32_fast	N=256	4379 (17.1 cycles/pts)
vec_bexp16	N=256	286 (1.1 cycles/pts)
vec_bexp24	N=256	288 (1.1 cycles/pts)
vec_bexp32	N=256	287 (1.1 cycles/pts)
vec_bexp16_fast	N=256	153 (0.6 cycles/pts)
vec_bexp24_fast	N=256	148 (0.6 cycles/pts)
vec_bexp32_fast	N=256	147 (0.6 cycles/pts)
vec_log2_32x32	N=256	3357 (13.1 cycles/pts)
vec_logn_32x32	N=256	3614 (14.1 cycles/pts)
vec_log10_32x32	N=256	3614 (14.1 cycles/pts)
vec_log2_24x24	N=256	3356 (13.1 cycles/pts)
vec_logn_24x24	N=256	3614 (14.1 cycles/pts)
vec_log10_24x24	N=256	3614 (14.1 cycles/pts)
vec_antilog2_24x24	N=256	1577 (6.2 cycles/pts)
vec_antilogn_24x24	N=256	1963 (7.7 cycles/pts)
vec_antilog10_24x24	N=256	1963 (7.7 cycles/pts)
vec_antilog2_32x32	N=256	1577 (6.2 cycles/pts)
vec_antilogn_32x32	N=256	1963 (7.7 cycles/pts)
vec_antilog10_32x32	N=256	1963 (7.7 cycles/pts)
vec_sine32x32	N=256	1832 (7.2 cycles/pts)
vec_cosine32x32	N=256	1834 (7.2 cycles/pts)

vec_sine24x24	N=256	1454 (5.7 cycles/pts)
vec_cosine24x24	N=256	1585 (6.2 cycles/pts)
vec_sine32x32_fast	N=256	1822 (7.1 cycles/pts)
vec_cosine32x32_fast	N=256	1821 (7.1 cycles/pts)
vec_sine24x24_fast	N=256	1444 (5.6 cycles/pts)
vec_cosine24x24_fast	N=256	1581 (6.2 cycles/pts)
vec_tan32x32	N=256	6318 (24.7 cycles/pts)
vec_atan32x32	N=256	3100 (12.1 cycles/pts)
vec_tan24x24	N=256	6130 (23.9 cycles/pts)
vec_atan24x24	N=256	1631 (6.4 cycles/pts)
vec_sqrt24x24	N=256	2852 (11.1 cycles/pts)
vec_sqrt24x24_fast	N=256	3103 (12.1 cycles/pts)
vec_sqrt32x32	N=256	2723 (10.6 cycles/pts)
vec_sqrt32x32_fast	N=256	2850 (11.1 cycles/pts)
scl_recip16x16		43 (cycles)
scl_recip32x32		49 (cycles)
scl_recip24x24		58 (cycles)
scl_divide16x16		55 (cycles)
scl_divide32x32		51 (cycles)
scl_divide24x24		59 (cycles)
scl_log2_32x32		34 (cycles)
scl_logn_32x32		37 (cycles)
scl_log10_32x32		37 (cycles)
scl_log2_24x24		36 (cycles)
scl_logn_24x24		38 (cycles)
scl_log10_24x24		38 (cycles)
scl_antilog2_32x32		35 (cycles)
scl_antilogn_32x32		37 (cycles)
scl_antilog10_32x32		37 (cycles)
scl_antilog2_24x24		35 (cycles)
scl_antilogn_24x24		38 (cycles)
scl_antilog10_24x24		38 (cycles)
scl_sqrt32x32		38 (cycles)
scl_sqrt24x24		39 (cycles)
scl_sine32x32		34 (cycles)
scl_cosine32x32		34 (cycles)
scl_sine24x24		34 (cycles)
scl_cosine24x24		35 (cycles)
scl_tan32x32		65 (cycles)

scl_atan32x32		39 (cycles)
scl_tan24x24		64 (cycles)
scl_atan24x24		29 (cycles)
scl_bexp16		19 (cycles)
scl_bexp24		18 (cycles)
scl_bexp32		17 (cycles)
vec_bexpf	N=256	801 (3.1 cycles/pts)
vec_int2float	N=256	794 (3.1 cycles/pts)
vec_float2int	N=256	663 (2.6 cycles/pts)
vec_complex2mag	N=256	11249 (43.9 cycles/pts)
vec_complex2invmag	N=256	8426 (32.9 cycles/pts)
vec_sinef	N=256	13223 (51.7 cycles/pts)
vec_cosinef*	N=256	22519 (88.0 cycles/pts)
vec_tanf *	N=256	31325 (122.4 cycles/pts)
vec_log2f	N=256	8470 (33.1 cycles/pts)
vec_log10f	N=256	8709 (34.0 cycles/pts)
vec_lognf	N=256	8684 (33.9 cycles/pts)
vec_antilog2f	N=256	4254 (16.6 cycles/pts)
vec_antilognf	N=256	4397 (17.2 cycles/pts)
vec_antilog10f	N=256	4633 (18.1 cycles/pts)
vec_atanf	N=256	10247 (40.0 cycles/pts)
vec_atan2f	N=256	15260 (59.6 cycles/pts)
scl_bexpf		23 (cycles)
scl_int2float		14 (cycles)
scl_float2int		23 (cycles)
scl_complex2mag		84 (cycles)
scl_complex2invmag		80 (cycles)
scl_sinef		93 (cycles)
scl_cosinef		92 (cycles)
scl_tanf	x=0.4	99 (cycles)
scl_tanf	x=1.2	115 (cycles)
scl_log2f		77 (cycles)
scl_log10f		77 (cycles)
scl_lognf		78 (cycles)
scl_antilog2f		58 (cycles)
scl_antilog10f		57 (cycles)
scl_antilognf		53 (cycles)
scl_atanf	x=0.7	58 (cycles)
scl_atanf	x=1.3	74 (cycles)

scl_atan2f		94 (cycles)
vec_atan16x16	N=256	745 (2.9 cycles/pts)
vec_atan2_16x16	N=256	4585 (17.9 cycles/pts)
vec_log2_16x16	N=256	2342 (9.1 cycles/pts)
vec_logn_16x16	N=256	2342 (9.1 cycles/pts)
vec_log10_16x16	N=256	2590 (10.1 cycles/pts)
vec_antilog2_16x16	N=256	1569 (6.1 cycles/pts)
vec_antilogn_16x16	N=256	1825 (7.1 cycles/pts)
vec_antilog10_16x16	N=256	1826 (7.1 cycles/pts)
vec_sine16x16	N=256	1509 (5.9 cycles/pts)
vec_cosine16x16	N=256	1635 (6.4 cycles/pts)
vec_tan16x16	N=256	4304 (16.8 cycles/pts)
vec_sqrt16x16	N=256	2614 (10.2 cycles/pts)
vec_dividef	N=256	7442 (29.1 cycles/pts)
vec_recipf	N=256	3613 (14.1 cycles/pts)
vec_asinf	N=256	11949 (46.7 cycles/pts)
vec_acosf	N=256	11954 (46.7 cycles/pts)
vec_sqrtf	N=256	5338 (20.9 cycles/pts)
vec_rsqrtf	N=256	4540 (17.7 cycles/pts)
vec_float2floor	N=256	782 (3.1 cycles/pts)
vec_float2ceil	N=256	781 (3.1 cycles/pts)
scl_atan16x16		24 (cycles)
scl_atan2_16x16		51 (cycles)
scl_log2_16x16		34 (cycles)
scl_logn_16x16		35 (cycles)
scl_log10_16x16		34 (cycles)
scl_antilog2_16x16		28 (cycles)
scl_antilogn_16x16		33 (cycles)
scl_antilog10_16x16		33 (cycles)
scl_sine16x16		31 (cycles)
scl_cosine16x16		29 (cycles)
scl_tan16x16		51 (cycles)
scl_sqrt16x16		40 (cycles)
scl_dividef		43 (cycles)
scl_recipf		36 (cycles)
scl_asinf	x=0.25	60 (cycles)
scl_asinf	x=0.75	91 (cycles)
scl_acosf	x=0.25	64 (cycles)
scl_acosf	x=0.75	86 (cycles)

scl_sqrtf		52 (cycles)
scl_rsqrtf		56 (cycles)
scl_float2floor		13 (cycles)
scl_float2ceil		13 (cycles)
Fixed point complex FFT:		
fft_cplx16x16	N=16	187 (0.086 pts/cycle)
fft_cplx16x16	N=32	373 (0.086 pts/cycle)
fft_cplx16x16	N=64	722 (0.089 pts/cycle)
fft_cplx16x16	N=128	1686 (0.076 pts/cycle)
fft_cplx16x16	N=256	3447 (0.074 pts/cycle)
fft_cplx16x16	N=512	8155 (0.063 pts/cycle)
fft_cplx16x16	N=1024	16827 (0.061 pts/cycle)
fft_cplx16x16	N=2048	39102 (0.052 pts/cycle)
fft_cplx16x16	N=4096	80606 (0.051 pts/cycle)
fft_cplx24x24	N=512, scaling=0	9077 (0.056 pts/cycle)
fft_cplx24x24	N=512, scaling=1	14454 (0.035 pts/cycle)
fft_cplx24x24	N=512, scaling=2	14453 (0.035 pts/cycle)
fft_cplx24x24	N=512, scaling=3	9976 (0.051 pts/cycle)
fft_cplx24x24	N=16, scaling=0	209 (0.077 pts/cycle)
fft_cplx24x24	N=32, scaling=0	432 (0.074 pts/cycle)
fft_cplx24x24	N=64, scaling=0	754 (0.085 pts/cycle)
fft_cplx24x24	N=128, scaling=0	1888 (0.068 pts/cycle)
fft_cplx24x24	N=256, scaling=0	3610 (0.071 pts/cycle)
fft_cplx24x24	N=16, scaling=3	232 (0.069 pts/cycle)
fft_cplx24x24	N=32, scaling=3	481 (0.067 pts/cycle)
fft_cplx24x24	N=64, scaling=3	841 (0.076 pts/cycle)
fft_cplx24x24	N=128, scaling=3	2086 (0.061 pts/cycle)
fft_cplx24x24	N=256, scaling=3	4010 (0.064 pts/cycle)
fft_cplx24x24	N=512, scaling=1	12916 (0.040 pts/cycle)
fft_cplx24x24	N=1024, scaling=2	32517 (0.031 pts/cycle)
fft_cplx24x24	N=2048, scaling=3	47700 (0.043 pts/cycle)
fft_cplx24x24	N=4096, scaling=0	86497 (0.047 pts/cycle)
fft_cplx32x16	N=16	199 (0.080 pts/cycle)
fft_cplx32x16	N=32	428 (0.075 pts/cycle)
fft_cplx32x16	N=64	804 (0.080 pts/cycle)
fft_cplx32x16	N=128	1992 (0.064 pts/cycle)
fft_cplx32x16	N=256	4012 (0.064 pts/cycle)
fft_cplx32x16	N=512	9819 (0.052 pts/cycle)

fft_cplx32x16	N=1024	20071 (0.051 pts/cycle)
fft_cplx32x16	N=2048	47670 (0.043 pts/cycle)
fft_cplx32x16	N=4096	97473 (0.042 pts/cycle)
fft_cplx32x32	N=16	179 (0.089 pts/cycle)
fft_cplx32x32	N=32	585 (0.055 pts/cycle)
fft_cplx32x32	N=64	1042 (0.061 pts/cycle)
fft_cplx32x32	N=128	2837 (0.045 pts/cycle)
fft_cplx32x32	N=256	5467 (0.047 pts/cycle)
fft_cplx32x32	N=512	14003 (0.037 pts/cycle)
fft_cplx32x32	N=1024	27710 (0.037 pts/cycle)
fft_cplx32x32	N=2048	67995 (0.030 pts/cycle)
fft_cplx32x32	N=4096	135595 (0.030 pts/cycle)
ifft_cplx16x16	N=16	190 (0.084 pts/cycle)
ifft_cplx16x16	N=32	385 (0.083 pts/cycle)
ifft_cplx16x16	N=64	778 (0.082 pts/cycle)
ifft_cplx16x16	N=128	1814 (0.071 pts/cycle)
ifft_cplx16x16	N=256	3831 (0.067 pts/cycle)
ifft_cplx16x16	N=512	8991 (0.057 pts/cycle)
ifft_cplx16x16	N=1024	19064 (0.054 pts/cycle)
ifft_cplx16x16	N=2048	43840 (0.047 pts/cycle)
ifft_cplx16x16	N=4096	92376 (0.044 pts/cycle)
ifft_cplx24x24	N=512, scaling=0	9073 (0.056 pts/cycle)
ifft_cplx24x24	N=512, scaling=1	14451 (0.035 pts/cycle)
ifft_cplx24x24	N=512, scaling=2	14449 (0.035 pts/cycle)
ifft_cplx24x24	N=512, scaling=3	9974 (0.051 pts/cycle)
ifft_cplx24x24	N=16, scaling=0	205 (0.078 pts/cycle)
ifft_cplx24x24	N=32, scaling=0	430 (0.074 pts/cycle)
ifft_cplx24x24	N=64, scaling=0	750 (0.085 pts/cycle)
ifft_cplx24x24	N=128, scaling=0	1886 (0.068 pts/cycle)
ifft_cplx24x24	N=256, scaling=0	3606 (0.071 pts/cycle)
ifft_cplx24x24	N=16, scaling=3	230 (0.070 pts/cycle)
ifft_cplx24x24	N=32, scaling=3	477 (0.067 pts/cycle)
ifft_cplx24x24	N=64, scaling=3	839 (0.076 pts/cycle)
ifft_cplx24x24	N=128, scaling=3	2082 (0.061 pts/cycle)
ifft_cplx24x24	N=256, scaling=3	4008 (0.064 pts/cycle)
ifft_cplx24x24	N=512, scaling=1	14450 (0.035 pts/cycle)
ifft_cplx24x24	N=1024, scaling=2	29440 (0.035 pts/cycle)
ifft_cplx24x24	N=2048, scaling=3	47696 (0.043 pts/cycle)
ifft_cplx24x24	N=4096, scaling=0	86494 (0.047 pts/cycle)

ifft_cplx32x16	N=16	197 (0.081 pts/cycle)
ifft_cplx32x16	N=32	428 (0.075 pts/cycle)
ifft_cplx32x16	N=64	802 (0.080 pts/cycle)
ifft_cplx32x16	N=128	1992 (0.064 pts/cycle)
ifft_cplx32x16	N=256	4010 (0.064 pts/cycle)
ifft_cplx32x16	N=512	9819 (0.052 pts/cycle)
ifft_cplx32x16	N=1024	20069 (0.051 pts/cycle)
ifft_cplx32x16	N=2048	47670 (0.043 pts/cycle)
ifft_cplx32x16	N=4096	97472 (0.042 pts/cycle)
ifft_cplx32x32	N=16	179 (0.089 pts/cycle)
ifft_cplx32x32	N=32	585 (0.055 pts/cycle)
ifft_cplx32x32	N=64	1042 (0.061 pts/cycle)
ifft_cplx32x32	N=128	2837 (0.045 pts/cycle)
ifft_cplx32x32	N=256	5467 (0.047 pts/cycle)
ifft_cplx32x32	N=512	14003 (0.037 pts/cycle)
ifft_cplx32x32	N=1024	27710 (0.037 pts/cycle)
ifft_cplx32x32	N=2048	67994 (0.030 pts/cycle)
ifft_cplx32x32	N=4096	135595 (0.030 pts/cycle)
Fixed point real FFT:		
fft_real16x16	N=32	353 (0.091 pts/cycle)
fft_real16x16	N=64	643 (0.100 pts/cycle)
fft_real16x16	N=128	1200 (0.107 pts/cycle)
fft_real16x16	N=256	2580 (0.099 pts/cycle)
fft_real16x16	N=512	5173 (0.099 pts/cycle)
fft_real16x16	N=1024	11544 (0.089 pts/cycle)
fft_real16x16	N=2048	23544 (0.087 pts/cycle)
fft_real16x16	N=4096	52476 (0.078 pts/cycle)
fft_real24x24	N=512, scaling=0	5212 (0.098 pts/cycle)
fft_real24x24	N=512, scaling=1	8244 (0.062 pts/cycle)
fft_real24x24	N=512, scaling=2	9783 (0.052 pts/cycle)
fft_real24x24	N=512, scaling=3	6927 (0.074 pts/cycle)
fft_real24x24	N=32, scaling=0	370 (0.086 pts/cycle)
fft_real24x24	N=64, scaling=0	689 (0.093 pts/cycle)
fft_real24x24	N=128, scaling=0	1202 (0.106 pts/cycle)
fft_real24x24	N=256, scaling=0	2722 (0.094 pts/cycle)
fft_real24x24	N=32, scaling=3	509 (0.063 pts/cycle)
fft_real24x24	N=64, scaling=3	933 (0.069 pts/cycle)
fft_real24x24	N=128, scaling=3	1647 (0.078 pts/cycle)

fft_real24x24	N=256, scaling=3	3594 (0.071 pts/cycle)
fft_real24x24	N=512, scaling=1	8243 (0.062 pts/cycle)
fft_real24x24	N=1024, scaling=2	20186 (0.051 pts/cycle)
fft_real24x24	N=2048, scaling=3	31082 (0.066 pts/cycle)
fft_real24x24	N=4096, scaling=0	55953 (0.073 pts/cycle)
fft_real24x24	N=1024, scaling=3	15709 (0.065 pts/cycle)
fft_real32x16	N=32	367 (0.087 pts/cycle)
fft_real32x16	N=64	700 (0.091 pts/cycle)
fft_real32x16	N=128	1282 (0.100 pts/cycle)
fft_real32x16	N=256	2887 (0.089 pts/cycle)
fft_real32x16	N=512	5739 (0.089 pts/cycle)
fft_real32x16	N=1024	13210 (0.078 pts/cycle)
fft_real32x16	N=2048	26790 (0.076 pts/cycle)
fft_real32x16	N=4096	61046 (0.067 pts/cycle)
fft_real32x32	N=32	324 (0.099 pts/cycle)
fft_real32x32	N=64	884 (0.072 pts/cycle)
fft_real32x32	N=128	1582 (0.081 pts/cycle)
fft_real32x32	N=256	3856 (0.066 pts/cycle)
fft_real32x32	N=512	7447 (0.069 pts/cycle)
fft_real32x32	N=1024	17902 (0.057 pts/cycle)
fft_real32x32	N=2048	35450 (0.058 pts/cycle)
fft_real32x32	N=4096	83414 (0.049 pts/cycle)
ifft_real16x16	N=32	362 (0.088 pts/cycle)
ifft_real16x16	N=64	675 (0.095 pts/cycle)
ifft_real16x16	N=128	1291 (0.099 pts/cycle)
ifft_real16x16	N=256	2776 (0.092 pts/cycle)
ifft_real16x16	N=512	5688 (0.090 pts/cycle)
ifft_real16x16	N=1024	12641 (0.081 pts/cycle)
ifft_real16x16	N=2048	26297 (0.078 pts/cycle)
ifft_real16x16	N=4096	58242 (0.070 pts/cycle)
ifft_real24x24	N=512, scaling=0	5341 (0.096 pts/cycle)
ifft_real24x24	N=512, scaling=1	9154 (0.056 pts/cycle)
ifft_real24x24	N=512, scaling=2	8381 (0.061 pts/cycle)
ifft_real24x24	N=512, scaling=3	5747 (0.089 pts/cycle)
ifft_real24x24	N=32, scaling=0	380 (0.084 pts/cycle)
ifft_real24x24	N=64, scaling=0	709 (0.090 pts/cycle)
ifft_real24x24	N=128, scaling=0	1237 (0.103 pts/cycle)
ifft_real24x24	N=256, scaling=0	2789 (0.092 pts/cycle)
ifft_real24x24	N=32, scaling=3	408 (0.078 pts/cycle)

ifft_real24x24	N=64, scaling=3	761 (0.084 pts/cycle)
ifft_real24x24	N=128, scaling=3	1330 (0.096 pts/cycle)
ifft_real24x24	N=256, scaling=3	2990 (0.086 pts/cycle)
ifft_real24x24	N=512, scaling=1	9155 (0.056 pts/cycle)
ifft_real24x24	N=1024, scaling=2	20454 (0.050 pts/cycle)
ifft_real24x24	N=2048, scaling=3	26446 (0.077 pts/cycle)
ifft_real24x24	N=4096, scaling=0	56981 (0.072 pts/cycle)
ifft_real24x24	N=1024, scaling=3	13376 (0.077 pts/cycle)
ifft_real32x16	N=32	374 (0.086 pts/cycle)
ifft_real32x16	N=64	721 (0.089 pts/cycle)
ifft_real32x16	N=128	1320 (0.097 pts/cycle)
ifft_real32x16	N=256	2957 (0.087 pts/cycle)
ifft_real32x16	N=512	5872 (0.087 pts/cycle)
ifft_real32x16	N=1024	13472 (0.076 pts/cycle)
ifft_real32x16	N=2048	27307 (0.075 pts/cycle)
ifft_real32x16	N=4096	62074 (0.066 pts/cycle)
ifft_real32x32	N=32	336 (0.095 pts/cycle)
ifft_real32x32	N=64	904 (0.071 pts/cycle)
ifft_real32x32	N=128	1618 (0.079 pts/cycle)
ifft_real32x32	N=256	3924 (0.065 pts/cycle)
ifft_real32x32	N=512	7579 (0.068 pts/cycle)
ifft_real32x32	N=1024	18162 (0.056 pts/cycle)
ifft_real32x32	N=2048	35966 (0.057 pts/cycle)
ifft_real32x32	N=4096	84441 (0.049 pts/cycle)
DCT:		
dct_16x16	N=32, scalingOpt=3	423 (cycles)
dct_24x24	N=32, scalingOpt=3	335 (cycles)
dct_32x16	N=32, scalingOpt=3	301 (cycles)
dct_32x32	N=32, scalingOpt=3	439 (cycles)
dctf	N=32	502 (cycles)
dctf	N=64	1273 (cycles)
Complex FFT with memory improved usage:		
fft_cplx32x16_ie	N=256	4259 (0.060 pts/cycle)
fft_cplx32x16_ie	N=512	10558 (0.048 pts/cycle)
fft_cplx32x16_ie	N=1024	20931 (0.049 pts/cycle)
fft_cplx24x24_ie	N=256	4258 (0.060 pts/cycle)
fft_cplx24x24_ie	N=512	10557 (0.048 pts/cycle)

fft_cplx24x24_ie	N=1024	20930 (0.049 pts/cycle)
ifft_cplx32x16_ie	N=256	4828 (0.053 pts/cycle)
ifft_cplx32x16_ie	N=512	11639 (0.044 pts/cycle)
ifft_cplx32x16_ie	N=1024	23036 (0.044 pts/cycle)
ifft_cplx24x24_ie	N=256	4827 (0.053 pts/cycle)
ifft_cplx24x24_ie	N=512	11638 (0.044 pts/cycle)
ifft_cplx24x24_ie	N=1024	23035 (0.044 pts/cycle)
fft_cplxf_ie	N=8	155 (0.052 pts/cycle)
fft_cplxf_ie	N=16	245 (0.065 pts/cycle)
fft_cplxf_ie	N=32	778 (0.041 pts/cycle)
fft_cplxf_ie	N=64	1389 (0.046 pts/cycle)
fft_cplxf_ie	N=128	3960 (0.032 pts/cycle)
fft_cplxf_ie	N=256	7336 (0.035 pts/cycle)
fft_cplxf_ie	N=512	19444 (0.026 pts/cycle)
fft_cplxf_ie	N=1024	36658 (0.028 pts/cycle)
fft_cplxf_ie	N=2048	92479 (0.022 pts/cycle)
fft_cplxf_ie	N=4096	176190 (0.023 pts/cycle)
ifft_cplxf_ie	N=8	147 (0.054 pts/cycle)
ifft_cplxf_ie	N=16	261 (0.061 pts/cycle)
ifft_cplxf_ie	N=32	737 (0.043 pts/cycle)
ifft_cplxf_ie	N=64	1456 (0.044 pts/cycle)
ifft_cplxf_ie	N=128	3792 (0.034 pts/cycle)
ifft_cplxf_ie	N=256	7611 (0.034 pts/cycle)
ifft_cplxf_ie	N=512	18763 (0.027 pts/cycle)
ifft_cplxf_ie	N=1024	37766 (0.027 pts/cycle)
ifft_cplxf_ie	N=2048	89750 (0.023 pts/cycle)
ifft_cplxf_ie	N=4096	180625 (0.023 pts/cycle)
Real FFT with memory improved usage:		
fft_real32x16_ie	N=256	3162 (0.081 pts/cycle)
fft_real32x16_ie	N=512	6111 (0.084 pts/cycle)
fft_real32x16_ie	N=1024	14202 (0.072 pts/cycle)
fft_real32x16_ie_24p	N=256	4013 (0.064 pts/cycle)
fft_real32x16_ie_24p	N=512	7730 (0.066 pts/cycle)
fft_real32x16_ie_24p	N=1024	17357 (0.059 pts/cycle)
fft_real24x24_ie	N=256	3097 (0.083 pts/cycle)
fft_real24x24_ie	N=512	5982 (0.086 pts/cycle)
fft_real24x24_ie	N=1024	13945 (0.073 pts/cycle)
fft_real24x24_ie_24p	N=256	4400 (0.058 pts/cycle)

fft_real24x24_ie_24p	N=512	8531 (0.060 pts/cycle)
fft_real24x24_ie_24p	N=1024	19636 (0.052 pts/cycle)
ifft_real32x16_ie	N=256	3542 (0.072 pts/cycle)
ifft_real32x16_ie	N=512	6811 (0.075 pts/cycle)
ifft_real32x16_ie	N=1024	15542 (0.066 pts/cycle)
ifft_real32x16_ie_24p	N=256	4393 (0.058 pts/cycle)
ifft_real32x16_ie_24p	N=512	8430 (0.061 pts/cycle)
ifft_real32x16_ie_24p	N=1024	18697 (0.055 pts/cycle)
ifft_real24x24_ie	N=256	3481 (0.074 pts/cycle)
ifft_real24x24_ie	N=512	6686 (0.077 pts/cycle)
ifft_real24x24_ie	N=1024	15289 (0.067 pts/cycle)
ifft_real24x24_ie_24p	N=256	4814 (0.053 pts/cycle)
ifft_real24x24_ie_24p	N=512	9329 (0.055 pts/cycle)
ifft_real24x24_ie_24p	N=1024	21202 (0.048 pts/cycle)
fft_realf_ie	N=8	75 (0.107 pts/cycle)
fft_realf_ie	N=16	241 (0.066 pts/cycle)
fft_realf_ie	N=32	402 (0.080 pts/cycle)
fft_realf_ie	N=64	1078 (0.059 pts/cycle)
fft_realf_ie	N=128	1978 (0.065 pts/cycle)
fft_realf_ie	N=256	5125 (0.050 pts/cycle)
fft_realf_ie	N=512	9652 (0.053 pts/cycle)
fft_realf_ie	N=1024	24065 (0.043 pts/cycle)
fft_realf_ie	N=2048	45887 (0.045 pts/cycle)
fft_realf_ie	N=4096	110923 (0.037 pts/cycle)
ifft_realf_ie	N=8	82 (0.098 pts/cycle)
ifft_realf_ie	N=16	230 (0.070 pts/cycle)
ifft_realf_ie	N=32	420 (0.076 pts/cycle)
ifft_realf_ie	N=64	1040 (0.062 pts/cycle)
ifft_realf_ie	N=128	2047 (0.063 pts/cycle)
ifft_realf_ie	N=256	4959 (0.052 pts/cycle)
ifft_realf_ie	N=512	9930 (0.052 pts/cycle)
ifft_realf_ie	N=1024	23386 (0.044 pts/cycle)
ifft_realf_ie	N=2048	46997 (0.044 pts/cycle)
ifft_realf_ie	N=4096	108197 (0.038 pts/cycle)

* Note: The functions vec_tanf and vec_cosinef are more optimized and has better performance with RI.7 xt-clang.

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 `FS_AVS_LE5_FP_XC` 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 wil 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	658		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	558		bkfir32x32_alloc, bkfir32x32_init, bkfir32x32_process	
bkfira16x16_fusion.o	825		bkfira16x16_alloc, bkfira16x16_init, bkfira16x16_process	
bkfira24x24_fusion.o	616		bkfira24x24_alloc, bkfira24x24_init, bkfira24x24_process	
bkfira32x16_fusion.o	667		bkfira32x16_alloc, bkfira32x16_init, bkfira32x16_process	
bkfira32x32_fusion.o	1132		bkfira32x32_alloc, bkfira32x32_init, bkfira32x32_process	
bkfiraf_fusion.o	166		bkfiraf_alloc, bkfiraf_init	
bkfiraf_process_fusion.o	406		bkfiraf_process	
bkfirf_fusion.o	117		bkfirf_alloc, bkfirf_init	
bkfirf_process_fusion.o	303		bkfirf_process	
cxfir_convol32x16_fusion.o	125		cxfir_convol32x16	
cxfir_convola32x16_fusion.o	326		cxfir_convola32x16	
cxfir_xcorraf_fusion.o	272		cxfir_xcorraf	
cxfir_xcorrf_fusion.o	188		cxfir_xcorrf	
cxfir16x16_fusion.o	509		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir24x24_fusion.o	663		cxfir24x24_alloc, cxfir24x24_init, cxfir24x24_process	
cxfir32x16_fusion.o	660		cxfir32x16_alloc, cxfir32x16_init, cxfir32x16_process	
cxfir32x32_fusion.o	526		cxfir32x32_alloc, cxfir32x32_init, cxfir32x32_process	
cxfirf_fusion.o	78		cxfirf_alloc, cxfirf_init	
cxfirf_process_fusion.o	260		cxfirf_process	
cxfirinterp16x16_fusion.o	414		cxfirinterp16x16_alloc, cxfirinterp16x16_init, cxfirinterp16x16_process	NatureDSP_Signal_320, NatureDSP_Signal_321, NatureDSP_Signal_322, NatureDSP_Signal_323
cxfirinterp16x16_D2_fusion.o	857		NatureDSP_Signal_320	
cxfirinterp16x16_D3_fusion.o	1074		NatureDSP_Signal_321	
cxfirinterp16x16_D4_fusion.o	857		NatureDSP_Signal_322	
cxfirinterp16x16_DX_fusion.o	979		NatureDSP_Signal_323	
bq3iir16x16_df1_fusion.o	864		bq3iir16x16_df1, bq3iir16x16_df1_alloc, bq3iir16x16_df1_init	

Object file	Code size	Data size	Symbols	
			Global	Referenced
bq3iir16x16_df2_fusion.o	677		bq3iir16x16_df2, bq3iir16x16_df2_alloc, bq3iir16x16_df2_init	
bq3iir32x16_df1_fusion.o	975		bq3iir32x16_df1, bq3iir32x16_df1_alloc, bq3iir32x16_df1_init	
bq3iir32x16_df2_fusion.o	680		bq3iir32x16_df2, bq3iir32x16_df2_alloc, bq3iir32x16_df2_init	
bq3iir32x32_df1_fusion.o	635		bq3iir32x32_df1, bq3iir32x32_df1_alloc, bq3iir32x32_df1_init	
bq3iir32x32_df2_fusion.o	633		bq3iir32x32_df2, bq3iir32x32_df2_alloc, bq3iir32x32_df2_init	
bq3iirf_df1_fusion.o	173		bq3iirf_df1_alloc, bq3iirf_df1_init	
bq3iirf_df1_process_fusion.o	803		bq3iirf_df1	
bq3iirf_df2_fusion.o	172		bq3iirf_df2_alloc, bq3iirf_df2_init	
bq3iirf_df2_process_fusion.o	531		bq3iirf_df2	
bqciirf_df1_fusion.o	170		bqciirf_df1_alloc, bqciirf_df1_init	
bqciirf_df1_process_fusion.o	757		bqciirf_df1	
bqriir16x16_df1_fusion.o	858		bqriir16x16_df1, bqriir16x16_df1_alloc, bqriir16x16_df1_init	
bqriir16x16_df2_fusion.o	613		bqriir16x16_df2, bqriir16x16_df2_alloc, bqriir16x16_df2_init	
bqriir24x24_df1_fusion.o	835		bqriir24x24_df1, bqriir24x24_df1_alloc, bqriir24x24_df1_init	
bqriir24x24_df2_fusion.o	740		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	705		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	685		bqriir32x32_df2, bqriir32x32_df2_alloc, bqriir32x32_df2_init	
bqriirf_df1_fusion.o	165		bqriirf_df1_alloc, bqriirf_df1_init	
bqriirf_df1_process_fusion.o	720		bqriirf_df1	
bqriirf_df2_fusion.o	164		bqriirf_df2_alloc, bqriirf_df2_init	
bqriirf_df2_process_fusion.o	472		bqriirf_df2	
bqriirf_df2t_fusion.o	164		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	797		cmtx_det3x3_16x16	
cmtx_det3x3_32x32_fusion.o	532		cmtx_det3x3_32x32	
cmtx_det3x3f_fusion.o	775		cmtx_det3x3f	
cmtx_det4x4_16x16_fusion.o	1410		cmtx_det4x4_16x16	
cmtx_det4x4_32x32_fusion.o	915		cmtx_det4x4_32x32	cmtx_det3x3_32x32
cmtx_det4x4f_fusion.o	731		cmtx_det4x4f	
cmtx_inv2x2f_fusion.o	199		cmtx_inv2x2f	

Object file	Code size	Data size	Symbols	
			Global	Referenced
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	
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_convol32x16_fusion.o	125		cxfir_convol32x16	
cxfir_convola32x16_fusion.o	326		cxfir_convola32x16	
cxfir_xcorraf_fusion.o	272		cxfir_xcorraf	
cxfir_xcorrf_fusion.o	188		cxfir_xcorrf	
cxfir16x16_fusion.o	509		cxfir16x16_alloc, cxfir16x16_init, cxfir16x16_process	
cxfir24x24_fusion.o	663		cxfir24x24_alloc, cxfir24x24_init, cxfir24x24_process	
cxfir32x16_fusion.o	660		cxfir32x16_alloc, cxfir32x16_init, cxfir32x16_process	
cxfir32x32_fusion.o	526		cxfir32x32_alloc, cxfir32x32_init, cxfir32x32_process	
cxfirf_fusion.o	78		cxfirf_alloc, cxfirf_init	
cxfirf_process_fusion.o	260		cxfirf_process	
cxfirinterp16x16_fusion.o	414		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	cfft16x16_16, fft_cplx16x16
dct_32x32_fusion.o	806	192	dct_32x32	cfft32_16, fft_cplx32x32
dctf_fusion.o	479	708	dctf	fft_cplxf_ie
expf_tbl.o		48	NatureDSP_Signal_211, NatureDSP_Signal_213, NatureDSP_Signal_272	
fft_cplx16x16_fusion.o	1437		fft_cplx16x16	
fft_cplx24x24_fusion.o	9129		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	3397	24	fft_cplx32x16	
fft_cplx32x16_ie_fusion.o	458		fft_cplx32x16_ie	NatureDSP_Signal_188
fft_cplx_inc1024_fusion.o		384	NatureDSP_Signal_104	
fft_cplx_inc128_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	cfft24_1024, NatureDSP_Signal_135, rfft24_2048	NatureDSP_Signal_104
fft_cplx_twd1024_fusion.o		3108	cfft16_1024, NatureDSP_Signal_113, rfft16_2048	NatureDSP_Signal_104, NatureDSP_Signal_107, NatureDSP_Signal_109, NatureDSP_Signal_111

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			Global	Referenced
fft_cplx_twd128_24x24_fusion.o		788	cfft24_128, NatureDSP_Signal_132, rfft24_256	NatureDSP_Signal_101
fft_cplx_twd128_fusion.o		412	cfft16_128, NatureDSP_Signal_110, rfft16_256	NatureDSP_Signal_101, NatureDSP_Signal_108
fft_cplx_twd16_24x24_fusion.o		116	cfft24_16, NatureDSP_Signal_129, rfft24_32	
fft_cplx_twd16_fusion.o		72	cfft16_16, NatureDSP_Signal_107, rfft16_32	
fft_cplx_twd2048_24x24_fusion.o		12308	cfft24_2048, NatureDSP_Signal_136, rfft24_4096	NatureDSP_Signal_105
fft_cplx_twd2048_fusion.o		6180	cfft16_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	cfft24_256, NatureDSP_Signal_133, rfft24_512	NatureDSP_Signal_102
fft_cplx_twd256_fusion.o		800	cfft16_256, NatureDSP_Signal_111, rfft16_512	NatureDSP_Signal_102, NatureDSP_Signal_107, NatureDSP_Signal_109
fft_cplx_twd32_24x24_fusion.o		212	cfft24_32, NatureDSP_Signal_130, rfft24_64	
fft_cplx_twd32_fusion.o		120	cfft16_32, NatureDSP_Signal_108, rfft16_64	
fft_cplx_twd4096_24x24_fusion.o		24596	cfft24_4096, NatureDSP_Signal_137, rfft24_8192	NatureDSP_Signal_106
fft_cplx_twd4096_fusion.o		12328	cfft16_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	cfft24_512, NatureDSP_Signal_134, rfft24_1024	NatureDSP_Signal_103
fft_cplx_twd512_fusion.o		1568	cfft16_512, NatureDSP_Signal_112, rfft16_1024	NatureDSP_Signal_103, NatureDSP_Signal_108, NatureDSP_Signal_110
fft_cplx_twd64_24x24_fusion.o		404	cfft24_64, NatureDSP_Signal_131, rfft24_128	NatureDSP_Signal_100
fft_cplx_twd64_fusion.o		220	cfft16_64, NatureDSP_Signal_109, rfft16_128	NatureDSP_Signal_100, NatureDSP_Signal_107
fft_cplx_twiddles_24x24.o	367	249478	NatureDSP_Signal_004	
fft_cplx_twd8_16x16_fusion.o		24	NatureDSP_Signal_334	
fft_cplxf_ie_fusion.o	1167		fft_cplxf_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_realf_ie_fusion.o	372		fft_realf_ie	fft_cplxf_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	cfft32_1024, cifft32_1024, rfft32_2048, rifft32_2048	
fft_cplx_twd128_32x32_fusion.o		796	cfft32_128, cifft32_128, rfft32_256, rifft32_256	
fft_cplx_twd16_32x32_fusion.o		124	cfft32_16, cifft32_16, rfft32_32, rifft32_32	
fft_cplx_twd2048_32x32_fusion.o		12316	cfft32_2048, cifft32_2048, rfft32_4096, rifft32_4096	

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			Global	Referenced
fft_cplx_twd256_32x32_fusion.o		1564	cfft32_256, cifft32_256, rfft32_512, rifft32_512	
fft_cplx_twd32_32x32_fusion.o		220	cfft32_32, cifft32_32, rfft32_64, rifft32_64	
fft_cplx_twd4096_32x32_fusion.o		24604	cfft32_4096, cifft32_4096, rfft32_8192, rifft32_8192	
fft_cplx_twd512_32x32_fusion.o		3100	cfft32_512, cifft32_512, rfft32_1024, rifft32_1024	
fft_cplx_twd64_32x32_fusion.o		412	cfft32_64, cifft32_64, rfft32_128, rifft32_128	
fft_real_twd32_fusion.o		16384	NatureDSP_Signal_301	
fft_cplx_twd1024_16x16_fusion.o		3108	cfft16x16_1024, NatureDSP_Signal_341, rfft16x16_2048	NatureDSP_Signal_335, NatureDSP_Signal_337, NatureDSP_Signal_339
fft_cplx_twd128_16x16_fusion.o		416	cfft16x16_128, NatureDSP_Signal_338, rfft16x16_256	NatureDSP_Signal_334, NatureDSP_Signal_336
fft_cplx_twd16_16x16_fusion.o		76	cfft16x16_16, NatureDSP_Signal_335, rfft16x16_32	
fft_cplx_twd2048_16x16_fusion.o		6184	cfft16x16_2048, NatureDSP_Signal_342, rfft16x16_4096	NatureDSP_Signal_334, NatureDSP_Signal_336, NatureDSP_Signal_338, NatureDSP_Signal_340
fft_cplx_twd256_16x16_fusion.o		800	cfft16x16_256, NatureDSP_Signal_339, rfft16x16_512	NatureDSP_Signal_335, NatureDSP_Signal_337
fft_cplx_twd32_16x16_fusion.o		124	cfft16x16_32, NatureDSP_Signal_336, rfft16x16_64	NatureDSP_Signal_334
fft_cplx_twd4096_16x16_fusion.o		12328	cfft16x16_4096, NatureDSP_Signal_343, rfft16x16_8192	NatureDSP_Signal_335, NatureDSP_Signal_337, NatureDSP_Signal_339, NatureDSP_Signal_341
fft_cplx_twd512_16x16_fusion.o		1572	cfft16x16_512, NatureDSP_Signal_340, rfft16x16_1024	NatureDSP_Signal_334, NatureDSP_Signal_336, NatureDSP_Signal_338
fft_cplx_twd64_16x16_fusion.o		220	cfft16x16_64, NatureDSP_Signal_337, rfft16x16_128	NatureDSP_Signal_335
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	1000		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	479		fir_blmsf	
fir_convol16x16_fusion.o	546		fir_convol16x16	
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	265		fir_convola32x16	NatureDSP_Signal_262
fir_convola32x32_fusion.o	263		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	519		NatureDSP_Signal_216	
fir_decimaf_Dx_fusion.o	245		NatureDSP_Signal_217	
fir_interpf_2x_fusion.o	192		NatureDSP_Signal_218	
fir_interpf_3x_fusion.o	250		NatureDSP_Signal_219	
fir_interpf_4x_fusion.o	324		NatureDSP_Signal_220	
fir_interpf_Dx_fusion.o	385		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

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			Global	Referenced
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	590		fir_xcorr16x16	
fir_xcorr24x24_fusion.o	146		fir_xcorr24x24	
fir_xcorr32x16_fusion.o	146		fir_xcorr32x16	
fir_xcorr32x32_fusion.o	224		fir_xcorr32x32	
fir_xcorra16x16_fusion.o	200		fir_xcorra16x16	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	190		fir_xcorraf	NatureDSP_Signal_256
fir_xcorrf_fusion.o	207		fir_xcorrf	
firdec16x16_fusion.o	419		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	1639	12	firdec24x24_alloc, firdec24x24_init, firdec24x24_process	
firdec32x16_fusion.o	1209	12	firdec32x16_alloc, firdec32x16_init, firdec32x16_process	
firdec32x32_D2_fusion.o	329		NatureDSP_Signal_310	
firdec32x32_D3_fusion.o	386		NatureDSP_Signal_311	
firdec32x32_D4_fusion.o	450		NatureDSP_Signal_312	
firdec32x32_DX_fusion.o	370		NatureDSP_Signal_313	
firdec32x32_fusion.o	443		firdec32x32_alloc, firdec32x32_init, firdec32x32_process	NatureDSP_Signal_310, NatureDSP_Signal_311, NatureDSP_Signal_312, NatureDSP_Signal_313
firdecf_fusion.o	297	12	firdecf_alloc, firdecf_init, firdecf_process	NatureDSP_Signal_214, NatureDSP_Signal_215, NatureDSP_Signal_216, NatureDSP_Signal_217
firinterp16x16_fusion.o	366		firinterp16x16_alloc, firinterp16x16_init, firinterp16x16_process	NatureDSP_Signal_352, NatureDSP_Signal_353, NatureDSP_Signal_354, NatureDSP_Signal_355
firinterp16x16_D2_fusion.o	326		NatureDSP_Signal_352	
firinterp16x16_D3_fusion.o	605		NatureDSP_Signal_353	
firinterp16x16_D4_fusion.o	416		NatureDSP_Signal_354	
firinterp16x16_DX_fusion.o	518		NatureDSP_Signal_355	
firinterp24x24_fusion.o	555		firinterp24x24_alloc, firinterp24x24_init, firinterp24x24_process	
firinterp32x16_fusion.o	553		firinterp32x16_alloc, firinterp32x16_init, firinterp32x16_process	
firinterp32x32_D2_fusion.o	419		NatureDSP_Signal_302	
firinterp32x32_D3_fusion.o	461		NatureDSP_Signal_303	
firinterp32x32_D4_fusion.o	461		NatureDSP_Signal_304	
firinterp32x32_DX_fusion.o	455		NatureDSP_Signal_305	
firinterp32x32_fusion.o	356		firinterp32x32_alloc, firinterp32x32_init, firinterp32x32_process	NatureDSP_Signal_302, NatureDSP_Signal_303, NatureDSP_Signal_304, NatureDSP_Signal_305
firinterpf_fusion.o	304	12	firinterpf_alloc, firinterpf_init, firinterpf_process	NatureDSP_Signal_218, NatureDSP_Signal_219, NatureDSP_Signal_220, NatureDSP_Signal_221
ifft_cplx16x16_fusion.o	1526		ifft_cplx16x16	
ifft_cplx24x24_fusion.o	9086		ifft_cplx24x24	
ifft_cplx24x24_ie_fusion.o	41		ifft_cplx24x24_ie	fft_cplx24x24_ie, NatureDSP_Signal_189
ifft_cplx32x16_fusion.o	3391	24	ifft_cplx32x16	
ifft_cplx32x16_ie_fusion.o	41		ifft_cplx32x16_ie	fft_cplx32x16_ie, NatureDSP_Signal_189
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_104,

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			Global	Referenced
			NatureDSP_Signal_122, rifft16_2048	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_cplxf_ie_fusion.o	1239		ifft_cplxf_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	416		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_cplxf_ie
ifft_cplx32x32_fusion.o	1100		ifft_cplx32x32	__divsi3
ifft_real32x32_fusion.o	354		ifft_real32x32	ifft_cplx32x32, NatureDSP_Signal_301
ifft_cplx_twd1024_16x16_fusion.o		3108	cifft16x16_1024, NatureDSP_Signal_331, rifft16x16_2048	NatureDSP_Signal_325, NatureDSP_Signal_327, NatureDSP_Signal_329
ifft_cplx_twd128_16x16_fusion.o		416	cifft16x16_128, NatureDSP_Signal_328, rifft16x16_256	NatureDSP_Signal_324, NatureDSP_Signal_326
ifft_cplx_twd16_16x16_fusion.o		72	cifft16x16_16, NatureDSP_Signal_325, rifft16x16_32	
ifft_cplx_twd2048_16x16_fusion.o		6184	cifft16x16_2048, NatureDSP_Signal_332, rifft16x16_4096	NatureDSP_Signal_324, NatureDSP_Signal_326, NatureDSP_Signal_328, NatureDSP_Signal_330
ifft_cplx_twd256_16x16_fusion.o		800	cifft16x16_256, NatureDSP_Signal_329,	NatureDSP_Signal_325, NatureDSP_Signal_327

Object file	Code size	Data size	Symbols	
			Global	Referenced
			rifft16x16_512	
ifft_cplx_twd32_16x16_fusion.o		124	cifft16x16_32, NatureDSP_Signal_326, rifft16x16_64	NatureDSP_Signal_324
ifft_cplx_twd4096_16x16_fusion.o		12328	cifft16x16_4096, NatureDSP_Signal_333, rifft16x16_8192	NatureDSP_Signal_325, NatureDSP_Signal_327, NatureDSP_Signal_329, NatureDSP_Signal_331
ifft_cplx_twd512_16x16_fusion.o		1572	cifft16x16_512, NatureDSP_Signal_330, rifft16x16_1024	NatureDSP_Signal_324, NatureDSP_Signal_326, NatureDSP_Signal_328
ifft_cplx_twd64_16x16_fusion.o		220	cifft16x16_64, NatureDSP_Signal_327, rifft16x16_128	NatureDSP_Signal_325
ifft_cplx_twd8_16x16_fusion.o		24	NatureDSP_Signal_324	
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_lcorr16x16_fusion.o	2176		NatureDSP_Signal_314	
latr16x16_fusion.o	3294	36	latr16x16_alloc, latr16x16_init, latr16x16_process	
latr24x24_fusion.o	2366		latr24x24_alloc, latr24x24_init, latr24x24_process	
latr32x16_fusion.o	2763		latr32x16_alloc, latr32x16_init, latr32x16_process	
latr32x32_fusion.o	2507	36	latr32x32_alloc, latr32x32_init, latr32x32_process	
latrf_fusion.o	155	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	553		NatureDSP_Signal_228	
latrf6_fusion.o	170		NatureDSP_Signal_229	
latrf7_fusion.o	845		NatureDSP_Signal_230	
latrf8_fusion.o	1092		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	528		mtx_inv3x3f	
mtx_inv4x4f_fusion.o	799		mtx_inv4x4f	

Object file	Code size	Data size	Symbols	
			Global	Referenced
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	
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	644		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	946		mtx_mul3x3_16x16	
mtx_mul3x3_32x32_fusion.o	548		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_vecmpy16x16_fast_fusion.o	189		mtx_vecmpy16x16_fast	
mtx_vecmpy16x16_fusion.o	554		mtx_vecmpy16x16	
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	
polypow2q23_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_corr16x16_fusion.o	643		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_lcorr16x16_fusion.o	2176		NatureDSP_Signal_314	
raw_lcorr32x16_fusion.o	1376		NatureDSP_Signal_315	
raw_lcorr32x32_fusion.o	1360		NatureDSP_Signal_316	
raw_lcorrf.o	1114		NatureDSP_Signal_317	
scl_acosf_fusion.o	315		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

Object file	Code size	Data size	Symbols	
			Global	Referenced
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	308		scl_antilog10f	_reent_ptr, NatureDSP_Signal_206, NatureDSP_Signal_207, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_272
scl_antilog2_16x16_fusion.o	76		scl_antilog2_16x16	NatureDSP_Signal_294
scl_antilog2f_fusion.o	312		scl_antilog2f	_reent_ptr, NatureDSP_Signal_208, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_272
scl_antilogn_16x16_fusion.o	92		scl_antilogn_16x16	NatureDSP_Signal_294
scl_antilognf_fusion.o	287		scl_antilognf	_reent_ptr, NatureDSP_Signal_213, NatureDSP_Signal_241, NatureDSP_Signal_244, NatureDSP_Signal_272
scl_asinf_fusion.o	310		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	188		scl_atanf	_reent_ptr, NatureDSP_Signal_209, NatureDSP_Signal_210, NatureDSP_Signal_241, 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_cosine16x16_fusion.o	98	12	scl_cosine16x16	
scl_cosine24x24_fusion.o	104		scl_cosine24x24	NatureDSP_Signal_286
scl_cosine32x32_fusion.o	113		scl_cosine32x32	NatureDSP_Signal_009
scl_cosinef_fusion.o	229	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	
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	449		scl_log10f	_reent_ptr, NatureDSP_Signal_203, NatureDSP_Signal_205,

Object file	Code size	Data size	Symbols	
			Global	Referenced
				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	453		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	182		scl_recip32x32	
scl_recipf_fusion.o	80	4	scl_recipf	NatureDSP_Signal_244
scl_rsqrtf_fusion.o	327		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	200		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	

Object file	Code size	Data size	Symbols	
			Global	Referenced
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	501		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	1092	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	850		vec_complex2invmag	NatureDSP_Signal_244
vec_complex2mag_fusion.o	1087		vec_complex2mag	
vec_cosine16x16_fusion.o	544	12	vec_cosine16x16	
vec_cosine24x24_fast_fusion.o	491		vec_cosine24x24_fast	NatureDSP_Signal_286
vec_cosine24x24_fusion.o	598		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	1035	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	
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
vec_log10f_fusion.o	735	32	vec_log10f	NatureDSP_Signal_203, 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	767	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

Object file	Code size	Data size	Symbols	
			Global	Referenced
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	797		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	
vec_rsqrtf_fusion.o	491		vec_rsqrtf	NatureDSP_Signal_241, 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	583		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_sine16x16_fusion.o	553	16	vec_sine16x16	
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
vec_sinef_fusion.o	1063	24	vec_sinef	NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_251, NatureDSP_Signal_252, NatureDSP_Signal_253
vec_sqrt16x16_fusion.o	594		vec_sqrt16x16	NatureDSP_Signal_290
vec_sqrt24x24_fast_fusion.o	334		vec_sqrt24x24_fast	NatureDSP_Signal_010
vec_sqrt24x24_fusion.o	460		vec_sqrt24x24	NatureDSP_Signal_010
vec_sqrt32x32_fast_fusion.o	341		vec_sqrt32x32_fast	NatureDSP_Signal_010
vec_sqrt32x32_fusion.o	452		vec_sqrt32x32	NatureDSP_Signal_010
vec_sqrtf_fusion.o	551		vec_sqrtf	NatureDSP_Signal_244
vec_sub16x16_fusion.o	124		NatureDSP_Signal_298	
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
vec_tan32x32_fusion.o	903		vec_tan32x32	NatureDSP_Signal_008, NatureDSP_Signal_009

Object file	Code size	Data size	Symbols	
			Global	Referenced
vec_tanf_fusion.o	1563	24	vec_tanf	NatureDSP_Signal_223, NatureDSP_Signal_241, NatureDSP_Signal_254, NatureDSP_Signal_255
feature.o	10		__NatureDSP_Signal_isPresent	
version.o	40	9	NatureDSP_Signal_get_library_api_version, NatureDSP_Signal_get_library_version	strncpy